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GSA Contract #GS-06F-0065N

Attention Federal Government Customers: Federal Government purchasers must insure they comply with all applicable procurement regulations governing the purchase of such items. Hi-Line makes full disclosure of these items in its GSA Catalog/Price List, published and distributed in a compact disc version only. For federal government customers, this Master Catalog should be used for reference purposes only.

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Quality Brand Products In A Mobile Store



Bussmann
by EATON



3M



DELPHI

Thomas&Betts

**KLEIN
TOOLS**

LOCTITE



Consolidated
ELECTRONIC WIRE & CABLE



PM PETERSON

FLUKE

SARGENT
QUALITY
TOOLS

molex

PANDUIT

**CAROL
BRAND**

Hi-Line's 10 Point Service Guarantee

10. After Hours, Weekends and Just-In-Time Availability:

Have you ever needed a part at midnight or on the weekend? Your Hi-Line Territory Manager and his mobile store are available to you 24 hours a day, 7 days a week.

9. Regularly Scheduled Service Calls:

Do you run out of parts resulting in downtime or expensive emergency shipments? Your Hi-Line Territory Manager can set up scheduled times to replenish your supplies minimizing or eliminating your downtime.

8. On-Site Product Training:

Our Territory Managers are trained on the latest product releases and will be glad to set up seminars to demonstrate the latest innovations in your industry.

7. Point of Purchase:

How many times have you needed something after you have already placed an order? When your local Hi-Line Territory Manager comes to you, they will have whatever you need with them in their mobile store.

6. "No Questions Asked" Return Policy:

If for any reason you are not satisfied with our products, or your needs change, return any product to your local Hi-Line Territory Manager on his next service call for a full refund or exchange.

5. Inventory Management to Your Specifications:

After your parts bins have been organized, we can make a list of the parts you may need. On an ongoing basis, we keep accurate records of what you use, how often and how much.

4. Sorting, Cleaning and Organizing:

Our "No Hassle" service begins with adding, replacing and cleaning your parts bins. Then we organize them so you can find parts faster. Rotating inventory is also done.

3. On-the-Spot Product Inspection:

Have you ever received the wrong part or found a part was broken upon delivery? You can inspect the parts to verify their identification and quality at the time of purchase.

2. 1-800 Technical Assistance Hotline (1-800-944-5463):

From 7 a.m. to 7 p.m. central standard time, our Customer Support staff will answer any question you may have or route a Territory Manager to you immediately. With Hi-Line, you talk to a qualified, knowledgeable person, not to a machine.

And the #1 Hi-Line Service Guarantee Point is...

1. We Bring the Service and Store to You®:

Your Hi-Line Territory Manager's fully stocked mobile store comes to you for immediate service.



Inventory Management Service

***"Let Us Help
You Stay
Organized"***

Hi-Line's inventory management service will help you reduce downtime and improve inventory control.



BEFORE



AFTER



CABINETS



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Cabinetry

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Large Steel Parts Drawers



- Prime cold rolled steel with powder coat finish
- High-impact styrene insert
- Full piano hinge on covers provide rigidity
- Positive pull-down catch keeps cover tightly closed
- Compartments and dividers have scooped bottoms to aid part removal
- 18" length x 12" deep x 3" height

Hi-Line carries a large array of parts drawers with configurations ranging from 16 to 32 compartments with heavy steel construction and a sturdy lid. These drawers are designed to fit in our PBR2 or PBR4 sliding drawer racks.



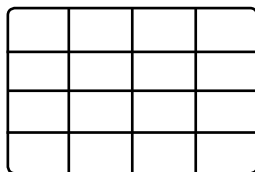
Compartments	Suggested Cabinet	Part No.
16	PBR2 or PBR4	PB16
20	PBR2 or PBR4	PB20
21	PBR2 or PBR4	PB21L
24	PBR2 or PBR4	PB24
32	PBR2 or PBR4	PB32
6 (Horizontal, Adjustable)	PBR2 or PBR4	PB6L
4 (Vertical, Adjustable)	PBR2 or PBR4	PBADJ
No Insert	PBR2 or PBR4	PBLNI

PB6L comes with 12 dividers.

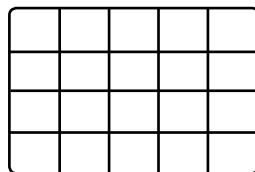
Additional Dividers	Part No.
Package of 12	PBD097

PBADJ comes with 9 dividers.

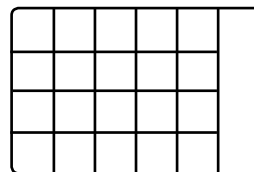
Additional Dividers	Part No.
Package of 9	PBD120



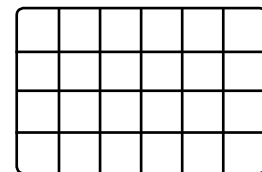
PB16



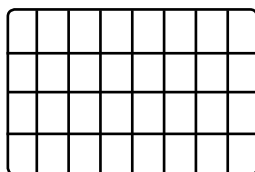
PB20



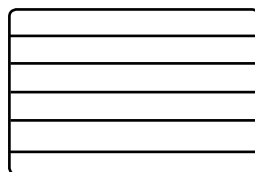
PB21L



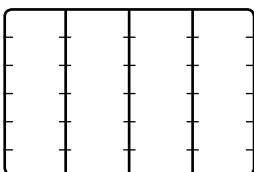
PB24



PB32



PB6L



PBADJ



PBLNI



MADE IN USA



PBR2

Large Sliding Drawer Racks

- Prime cold rolled steel with powder coat finish
- Drawers easily drop-in place and are easily removed
- Slides allow for drawers to slide in and out smoothly



PBR4

Our large sliding drawer racks are designed to fit our large steel parts drawer and feature a two or four drawer configuration. The four drawer configuration has a secure locking hinge (#LH312) available.

Shelves	Width (in)	Height (in)	Depth (in)	Part No.
2	20-7/16	7-13/16	16-3/4	PBR2
4		14-3/4		PBR4

Locking Hinges

- Holds drawers in place during transport
- Allows units to be locked for tamper resistance (lock not included)
- Installs easily with pull-riquets or sheet metal screws (not included)
- Chrome plated steel

Locking Hinges for PBR4



LH312



SPBR4

Stands for Large Drawer Racks

Size	Height (in)	Width (in)	Depth (in)	Part No.
Short	5-3/4	20-11/16	17	SPBR4S
Tall	15			SPBR4



Cabinetry

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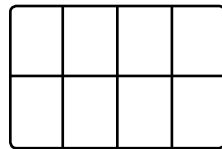


MADE IN USA

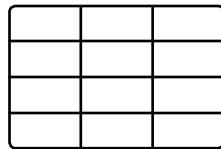
Small Steel Parts Drawers

- Prime cold rolled steel with powder coat finish
- High-impact styrene insert
- Full piano hinge on covers provide rigidity
- Positive pull-down catch keeps cover tightly closed
- Non-adjustable compartments have scooped bottoms to aid part removal
- 13-3/8" length × 9-1/4" deep × 2" height

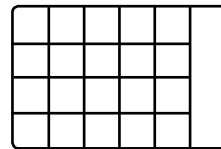
Compartments	Suggested Cabinet	Part No.
8	PBR4S or PBR6	PB8S
12	PBR4S or PBR6	PB12S
21	PBR4S or PBR6	PB21
24	PBR4S or PBR6	PB24S
4 (Vertical, Adjustable)	PBR4S or PBR6	PBADJS
No Insert	PBR4S or PBR6	PBSNI



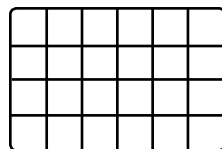
PB8S



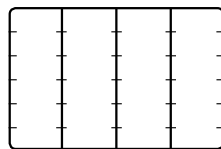
PB12S



PB21



PB24S



PBADJS



PBSNI



Locking Hinges for PBR4S & PBR6
Part No: LH313

See LH312 for details.

Small Drawer Racks

Our small sliding drawer racks are designed to fit our small steel parts drawer and feature a four or six drawer configuration. The four drawer configuration has a secure locking hinge (LH312) available. Great for a service truck.

Shelves	Width (in)	Height (in)	Depth (in)	Part No.
4	15-1/4	11-1/4	11-3/4	PBR4S
6		16-3/8		PBR6

Drawers not included.

PBADJS comes with 9 dividers.

Additional Dividers	Part No.
Package of 9	PBD120S



PBR6



PBR4S



Compartment Bins



- Heavy steel construction
- Great for inventory control
- Easy & accessible storage
- Deep 12" compartments
- Baked enamel finish

Our bins are built to be stacked together in any combination! Choose from six bin sizes and combine them with our drawer racks, cabinets, wire racks, etc. Combine them to organize any area of your shop. Compartment bins ship fully assembled and ready for use.

Compartment Group	No. of Compartments	Compartment Size (in) W × H × D	Bin Width (in)	Bin Height (in)	Bin Depth (in)	Part No.
Standard	40	4 × 4-1/2 × 11-7/8	33-3/4	23-7/8	12	PB40
	72	4 × 4-1/2 × 11-7/8		42		PB72
Large	18	5-3/8 × 6-3/8 × 11-7/8	33-3/4	19-1/4	12	PB18
	42	5-3/8 × 5-1/2 × 11-7/8		42		PB42
X-Large	12	8 × 6-5/8 × 11-7/8	33-3/4	23-7/8	12	PB12
XXL	20	8 × 8-1/2 × 11-7/8	33-3/4	42	12	PB20C

Standard Compartments



40 Bin Compartment Unit
Part No: PB40



72 Bin Compartment Unit
Part No: PB72

Large Compartments



18 Bin Compartment Unit
Part No: PB18



42 Bin Compartment Unit
Part No: PB42



Cabinetry

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Large Compartments

MADE IN USA

XXL Compartments



12 Bin Compartment Unit
Part No: PB12



20 Bin Compartment Unit
Part No: PB20C



SPB4072



SPB4072L

Material	Color	Width (in)	Height (in)	Depth (in)	Suggested Parts Bin No.	Part No.
Steel	Red	34-1/8	5-3/4	12-1/4	PB12, PB18, PB20C, PB40, PB42, PB72	SPB4072
			15		PB12, PB18, PB20C, PB40, PB42, PB72	SPB4072L





Drawer Cabinets



- High-density drawer cabinets store large quantities of small parts
- Each drawer comes with two easy to label dividers, which are adjustable on 1" centers
- Like cabinets are stackable using mounting holes
- Prime cold rolled steel with powder coat finish, fully assemble



6 Drawers
Part No: DC612



9 Drawers
Part No: DC912

Drawers	Width (in)	Height (in)	Depth (in)	Part No.
6 – w/12 dividers	33-3/4	4	11-5/8	DC612
9 – w/18 dividers	17-1/4	10-7/8		DC912
18 – w/36 dividers	33-3/4	10-7/8		DC1812
Additional Dividers for DC912 and DC1812 – Package of 12				PBD010

18 Drawers
Part No: DC1812





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Utility Cabinets



- Prime cold rolled steel with powder coat finish
- Full piano hinged doors to prevent door sag
- Lock attachment is built in (lock not included)
- Wall mountable (hardware not included)

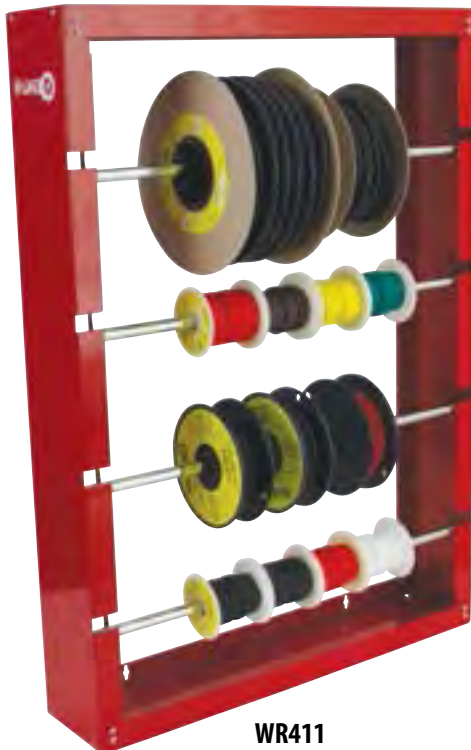
Width (in)	Height (in)	Depth (in)	Description	Part No.
33-3/4	23-7/8	12	Divided Shelves	LUC2
19-7/8	32-3/4	14-1/4	Adjustable Shelves	LUC3



LUC2



LUC3



WR411

Wire Racks

- Easy to store different size spools
- Punched side panels allow quick spool changes
- Prime cold rolled steel with powder coat finish
- Keyhole slots for wall mounting
- Comes with assemble hardware

Width (in)	Height (in)	Depth (in)	Description	Part No.
26-1/8	10-3/8	6	1 Rod	WR30
	17-7/8		2 Rods	WR22
	37-1/8		4 Rods	WR411

Parts not included.



WR22



WR30



Build A Cart

Top includes handle, mat and top platform



Bottom includes platform, casters, (2) swivel and (2) rigid

Mobil Modular Cart Part No: MMC1



Part No: PBK9
(Includes DC612 (2), LUC2, MMC1 and PB40)

Parts not included.

Mobile Cart



Choose from our three pre-configured options or design your own mobile workstation with a number of mix and match cabinetry options including our utility cabinets, bin compartments, small parts bins, wire wracks and parts drawer cabinets. Below are just a few of the possible configuration options.



Part No: PBK10
(Includes MMC1, PB42, PB20C and WR411)

Part No: PBK8
(Includes DC612 (2), LUC2, MMC1, PB40 and PBR4)





Cabinetry

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Modular Hose Cabinet



- Heavy duty all steel construction
- Mounting holes on sides to bolt units together
- Durable red powder coat finish
- Great for shop air hose and low pressure hydraulic hose

Suggested combination with 2 large hose racks along with a 40 compartment bin.
 CAB0009 (2), CAB0010, CAB0011, CAB0012, PB40

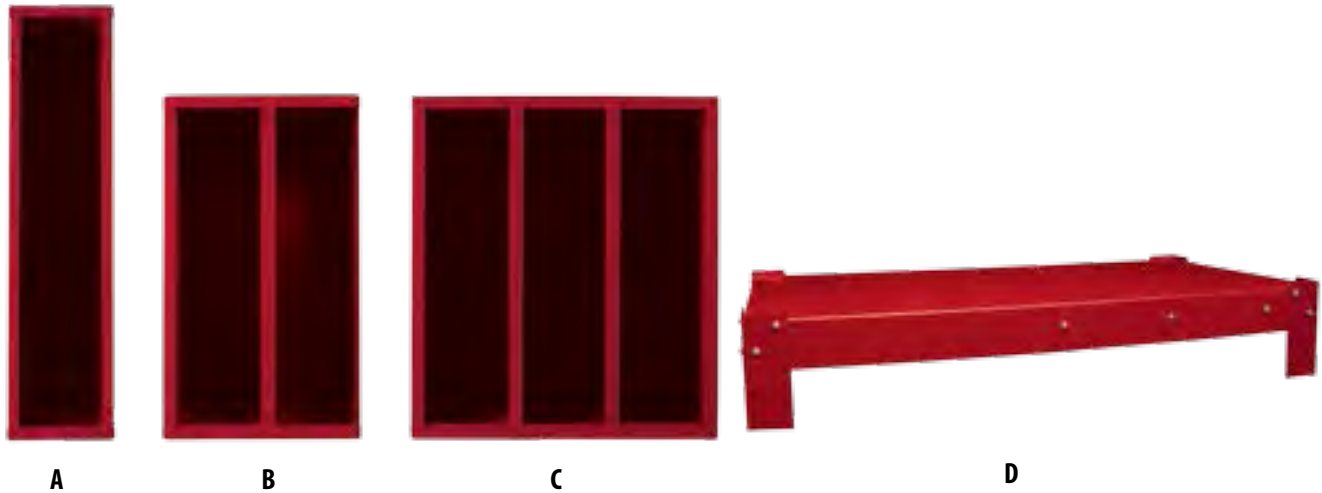


Photo	Description	Outside Dimensions Width × Depth × Height	Part No.
A	Hose rack (large)	8-1/2" × 24-1/8" × 34-7/8"	CAB0009
B	Hose rack with 1 divider	13-3/4" × 24-1/8" × 24"	CAB0010
C	Hose rack with 2 dividers	21-9/16" × 24-1/8" × 24"	CAB0011
D	Adjustable base	24-11/16" deep × 7-1/2" high with four width stops at 61-1/16", 52-1/4", 41-13/16" and 35-1/2"	CAB0012



Fuse Rack



Part No: FR255
 Holds most popular glass tube and blade-type fuses. Rack has Buss inventory feature. The plastic rack is: 4" D x 6-3/4" W x 10" H



Hose Clamp Rack for #40 – #72



Part No: HCR5
 Our Hose Clamp Rack for larger sizes features 5 racks and can be wall mounted or placed on atop a counter, workbench or cabinet.



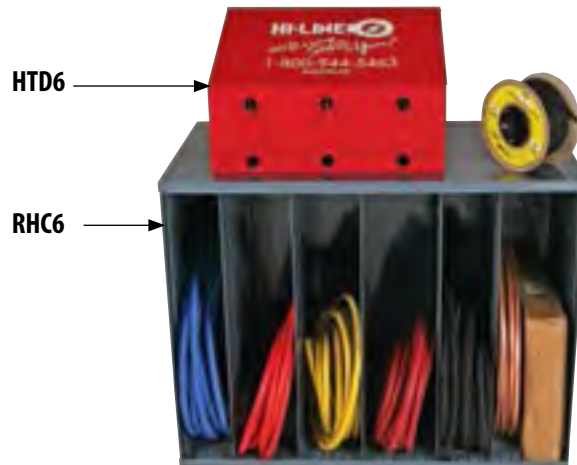
Hose Clamp Rack for #04 – #36



Part No: HCR10
 Our HCR10 features 10 racks with two for mini sizes (#4 – #6), and one each for #8, #10, #12, #16, #20, #28, #32 and #36. Clamps are not included with racks.



Hose Dispenser & Cabinet



Note: Parts not included.

Hose Dispenser

Part No: HTD6
 Hi-line's hose dispenser features 6 verticle slots for handy storage of hose and tubing.

Material: Steel
 Length: 19-3/4"
 Height: 12"
 Depth: 14"

Hose Cabinet

Part No: RHC6
 Hi-line's hose cabinet features 6 verticle slots for handy storage of hose and tubing.

Material: Steel
 Color: Gray
 Length: 36-1/6"
 Height: 37-15/16"
 Depth: 20-1/16"



Keystock Rack



Part No: KSR10
 Features ten compartments that hold keystock up to 3/4" square. Keyhole slots allow for easy wall mounting.

Material: Steel
 Length: 12-1/4"
 Height: 12"
 Depth: 6-1/4"
 Slots: 10
 Keystocks not included.



Threaded Rod Rack



Part No: TRR18
 Threaded Rod Racks separate and protect threaded rods. Hi-Line's Threaded Rod Rack features eighteen 2-1/16" diameter openings accommodate different sized threaded rods.

Material: Steel
 Length: 24-1/8"
 Height: 24"
 Depth: 6-7/8"
 Thread rods not included.





Cabinetry

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Drill Pal



Part No: CAB0001

Holds 29 *mechanics* length drills from 1/16" to 1/2" by 64ths. Similar to our PBDP but for mechanic length drills such as our TriNado bit drills.



Drill Pal



Part No: PBDP

Holds 29 drill bits. For jobber length drills. Water and break resistant plastic. 1/16" to 1/2" by 64ths.

Drills not included.



Drill Stands



Part No: CAB0005

A to Z drill stand - holds one each letter.

Part No: CAB0006

1/16" to 1/2" by 64ths – holds one of each fractional drill.

Durable from a single piece of prime steel, rigidly formed.

5-5/8" W x 2-5/8" D x 1-1/2" H



Silver Deming



Part No: CAB0002

Silver, Deming Drill Stand. Conveniently holds 8 most commonly used silver, deming drills 9/16" to 1" by 64ths. Can be mounted to a drill press or work bench. Finished in textured black with sizes in white for easy reading.

Silver Deming



Part No: CAB0003

1/2" to 1" by 64ths stand S&D drills only. For silver, deming drills from 1/2" to 1" by 64ths "held by shank". Fractional sizes clearly marked. Baked epoxy finish



Carbide Burr Stand



Part No: CAB0004

Burr stand for 24 pieces, 1/4" shank burs. Holds up 24, 1/4" shank burs. Drill stand can be hung on a wall, used on a bench or mounted on a press. Durably made from a single piece of prime steel, rigidly formed.



Drill Bit & Bur Indexes



Part No: DBIF15

15 slots, 1/16" – 1/2" Fractional by 1/8" Drill Bits



Refer to chart for additional indexes.

Slots	Description	Part No.
8	1/8" Shank Burs	BCI1
10	1/4" Shank Burs	BCI2
8	1/4" Shank Burs	BCI3
15	1/16" – 1/2" Fractional by 32nds Drill Bits	DBIF15
29	1/16" – 1/2" Fractional by 64ths Drill Bits	DBIF
26	A-Z Lettered Drill Bits	DBIL
60	1 – 60 Numbered Drill Bits	DBIN1
20	61 – 80 Numbered Drill Bits	DBIN2
18	6 – 32-1/2 – 13 National Coarse Taps/Drill Bits	DTINC
18	6 – 40-1/2 – 20 National Fine Taps/Drill Bits	DTINF



PBDBN



PBDBF



PBBUR

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Drill Bit and Bur Cabinets				
Type	Width (in)	Height (in)	Depth (in)	Part No.
1/16" – 1/2" Fractional Drill Bits	14-5/8	7-3/4	7-3/8	PBDBF
1 – 80 Numbered Drill Bits				PBDBN
24 Assorted Burs				PBBUR



Plastic Parts Bins and Rack



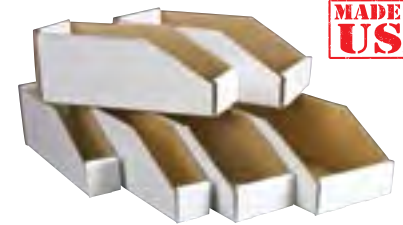
Part No: PBPR4D
Individual drawer organizers slide out for easy access. Handy for storing small parts on service trucks. 15.5 x 11.25 x 9.5-inches

Tab Dispenser – Fractional



Part No: CAB0007
Similar to our #PBDBF above but for taps. Holds fractional taps 1/4" to 1" course and fin . Steel. 14-5/8" W x 7-3/8" D x 7-3/4" H

Corrugated Boxes



Width	Height	Depth	Part No.
2"	4-1/2"	12"	PBC212
4"			PBC412
6"			PBC612
2"	4-1/2"	18"	PBC218
4"			PBC418
6"			PBC618



Cabinetry

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Stackable Trays



Standard			
Outside Dimensions (in)			Part No.
Length	Width	Height	
11-5/8	4-1/8	4	AM30120
	6-5/8		AM30130
	8-3/8		AM30150
17-7/8	4-1/8	4	AM30128
	6-5/8		AM30138
	8-3/8		AM30158
	11-1/8		AM30178

Dividers – 24 Per Package	
For 17-7/8" Long Standard Bins	
Divider Part No.	Fits Bin No.
AM40120	AM30128
AM40130	AM30138
AM40150	AM30158
AM40170	AM30178

Heavy Duty Stackable			
Outside Dimensions (in)			Part No.
Length	Width	Height	
7-3/8	4-1/8	3	AM30220
14-3/4	5-1/2	5	AM30234
	8-1/4	7	AM30240
	16-1/2	7	AM30250

Sturdy, one-piece construction is water, rust and corrosion proof and guaranteed not to break. Dividers available!

Aerosol Can Rack

Part No: ACR6

Mount to wall, cart or bench.



StableStool™



Part No: CAB0008

- The Two Step Stool that moves across the room easily yet is solid when you step on it.
- Kick it, it rolls. Step on it, it stays.
- Our compact, lightweight Stable Stool rolls where needed, then casters underneath to retract to a non-skid bumper when you step on it.
- Supports a whopping 300 lbs, has a wraparound bumper to protect bins & walls from nicks and scratches.
- Great for getting to those things around the shop on the top rows.
- Platform Height: 15.5", Width 16.5", Weight: 6 lbs





Gravity Feed Rack

MADE IN USA

Part No: CAB0013

- Key hole slots on back panel for wall mounting.
- Hinged top cover makes it fast and easy to re-load.
- Great for small, high volume parts.
- 20-3/8" wide x 17-1/3" high x 8" deep.



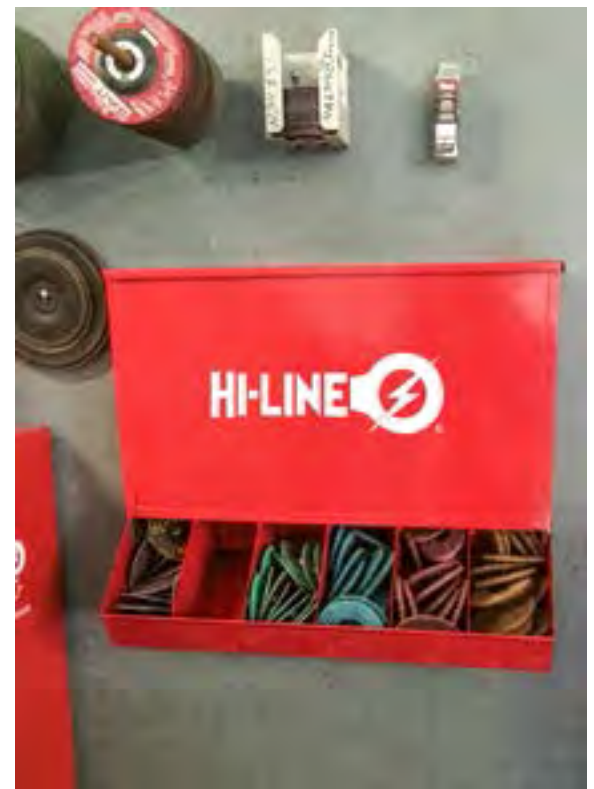
Wipe Dispenser for Rough Rags

MADE IN USA

Part No: CAB0014

- Key hole slots on back panel for wall mounting.
- Holds single box of Rough Rags.
- Can be dispensed from the top or bottom
- 9-7/8" wide x 13" high x 5" deep.

Description	Part No.
Case of Rough Rags with Dispenser	SHP0006K
Case of 9 Boxes of Rags	SHP0006C
Single Box of Wipes	SHP0006





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Wire Connectors	75 – 76

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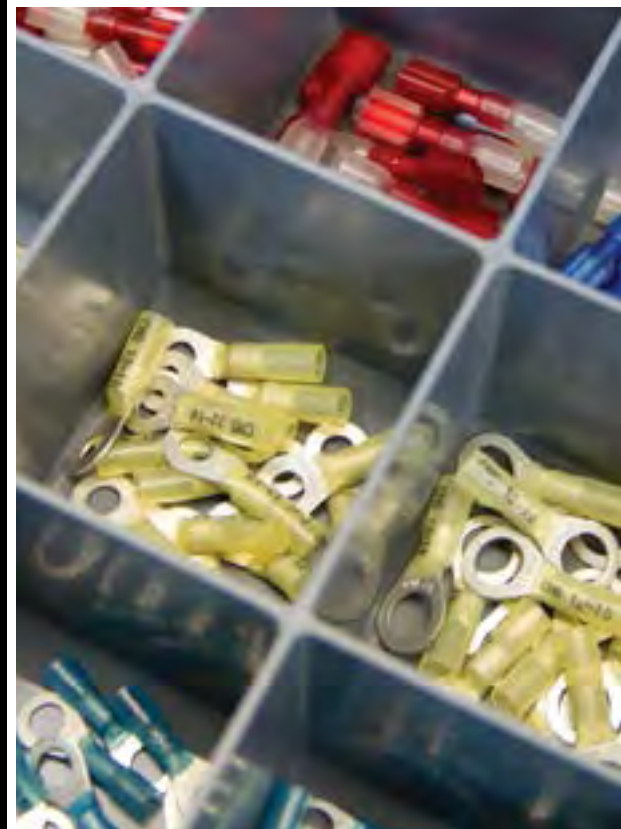
Why Use Heat Shrink Terminals?

Two of the biggest problems encountered with wiring are corrosion and pullout.

Corrosion – Over time, wires can corrode & then the corrosion spreads down the wire. This reduces the current carrying capacity of the electrical system. When heat shrink terminals are used, corrosion is slow to start on the wiring. Most times the wires themselves never corrode.

Pullout – In most cases, electrical connectors must operate in adverse conditions: heat, cold, vibration, strain, etc. These conditions can cause the wire or wires to pull out of the connector.

The strain relief offered by heat shrink terminals often suprise people. Test it yourself. Slip a heat shrink terminal onto a wire. Don't crimp it; just apply heat to shrink the tubing. Wait a short time to allow the terminal to cool, then try to pull it off the wire.





Crimp-N-Seal



- Shrink Temperature (Min.): 150°C (300°F)
- Continuous Operating Temperature: -55°C to 155°C
- Dielectric Rating: UL listed for 600V, 500V/mil min.
- Tensile strength: 3200 PSI min.
- Water absorption: 0.5% max.
- Ultimate elongation: 200% min.
- Use crimp tool RT3120 or RT822
- Products shown are actual size



22-18 AWG



Size	6	8	10	1/4"	6	8	10
Part No.	3A2356	3A9906	3A2146	3A8486	3A7126	3A2396	3A5266



Description	Butt Connector	Step-Down Butt Connector (22/18 to 16/14)	Crystal Clear Window Splice	3-Way	4-Way
Part No.	3A8186	SDCS1422	CCW2218	3A0736	3A0746



Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab	Butt Connector 24-22 AWG
Part No.	KTN506	KTN516	KTN193	KTN183	3N24226



Heat Shrink Terminals

Crimp-N-Seal



Products shown are actual size.

16-14 AWG



Size	6	8	10	1/4"	5/16"	3/8"	6	8	10
Part No.	3B2266	3B9926	3B2176	3B2186	3B4546	3B4756	3B3546	3B4136	3B9056

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Description	Butt Connector	Step-Down Butt Connector (12/10 to 16/14)	Crystal Clear Window Splice	3-Way	4-Way
Part No.	3B8196	SDCS1016	CCW1614	3B0736	3B0746



Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab	.156 Female Snap Plug	.156 Male Snap Plug
Part No.	KTN486	KTN496	KTN393	KTN383	SP8456	SP2276



Crimp-N-Seal



Products shown are actual size.

12-10 AWG



Size	#6	#8	10	1/4"	5/16"	3/8"	1/2"	10
Part No.	3C6066	3C6086	3C4576	3C7726	3C4286	3C24586	3C6476	3C4956



Description	Butt Connector	Step-Down Butt Connector (8 to 12-10)	Crystal Clear Window Splice	3-Way	4-Way
Part No.	3C1516	SDCS812	CCW1210	3C0736	3C0746



Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab
Part No.	KTN526	KTN536	KTN493	KTN483



Heat Shrink Terminals

Crimp-N-Seal



Products shown are actual size.

8 AWG



Size	#10	1/4"	5/16"	3/8"	1/2"
Part No.	3D4606	3D4616	3D4626	3D4636	3D6646



Description	Butt Splice
Part No.	3D3216

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Size	#10	1/4"	5/16"	3/8"	1/2"
Part No.	3D4606HD	3D4616HD	3D4626HD	3D4636HD	3D6646HD

Step-Down Butt Connectors

The Step-Down Butt Connectors have two stripes - one on each end - to indicate which wire size to insert. Plus, the stripe matches the crimp die that needs to be used. For example, the blue stripe indicates the side where a 14 AWG or 16 AWG wire is to be inserted, and it will be crimped in the blue crimp die.



SDCS1422



SDCS1016



SDCS812

Stripe indicators for which wire size to insert and which crimp die to use on each end



Step-Down Connectors, Crimp N Seal					
Large End		Step-Down End		Insulation Color	Part No.
AWG	Crimp Line	AWG	Crimp Line	Color	
16 - 14	blue	22 - 18	red	blue	SDCS1422
12 - 10	yellow	16 - 14	blue	yellow	SDCS1016
8	red	12 - 10	yellow	red	SDCS812



Trilync Splice

- Sealed multiple wire splices
- Seal two wire to one wire
- Color dashes on Heat Shrink Tubing indicates wire gauge for connector
- Color stripes on the connector indicate which crimp die to use where
- Heat Shrink Tubing has an active adhesive that seals between the two wires



Wire Ga. 1 wire to 2 wire	Tubing Color	Color stripes on connector	Wire	Insulated Crimp Die	Part No
24-22	Clear w/ white dashes	Side 1: white	One 24-22 GA	White, 24-22 GA	TLC2422
		Side 2: red	Two 24-22 GA	Red, 20-18 GA	
20-18	Clear w/ red dashes	Side 1: red	One 20-18 GA	Red, 20-18 GA	TLC2018
		Side 2: blue	Two 20-18 GA	Blue, 16-14 GA	
16-14	Clear w/ blue dashes	Side 1: blue	One 16-14 GA	Blue, 16-14 GA	TLC1614
		Side 2: yellow	Two 16-14 GA	Yellow, 12-10 GA	
12-10	Clear w/ yellow dashes	Side 1: yellow	One 12-10 GA	Yellow, 12-10 GA	TLC1210
		Side 2: red	Two 12-10 GA	Red, 8 GA	



Trilync CE

- Replace standard closed end connectors & wire nuts with a sealed solution
- Heat Shrink Tubing has an active adhesive that seals between the wires

Wire Range	Tubing	Part No.
22-14	Clear w/ blue dashes	TLC2214
18-10	Clear w/ yellow dashes	TLC1810



Sealed closed end connectors.



Heat Shrink Terminals

Crimp, Solder & Seal Connectors

- High quality brazed seam crimp connector—provides a secure mechanical connection
- Pre-fluxed, low temperature solder—delivers superior current flow and tensile strength
- Translucent, adhesive-lined heat shrink tubing—allows for visual inspection and provides a seal against corrosion
- Crimped, soldered, and sealed connection—meets or exceeds the most stringent OEM standards

MADE IN USA

20–18 AWG



Size	6	8	10	1/4	5/16	3/8	6
Part No.	3QA194	3QA990	3QA214	3QA215	3QA452	3QA453	3QA897



Size	8	10	6	8	10	–	–	–	–
Part No.	3QA898	3QA118	3QA006	3QA008	3QA010	KTQ22	KTQ23	KTQ50	3QA818

24–22 AWG



Part No.	3QN2422
----------	---------

The Crimp Connector:



- Zippered brazed seam for superior crimp performance
- Window for visual inspection
- Wire stop to prevent over-insertion
- Serrated inner barrel for extra crimp strength

The Solder:



- Flux coating to clean metal surfaces
- Pre-measured solder to deliver the right amount
- Low-temp solder alloy for ease of installation

The Heat Shrink Tubing:



- Adhesive-lined polyolefin to seal the connection
- Color-coded with wire gauge imprint for easy size identification
- Translucent tubing to allow for visual inspection



Crimp, Solder & Seal Connectors

MADE IN USA

16-14 AWG



Size	6	8	10	1/4	5/16	3/8	6
Part No.	3QB197	3QB992	3QB217	3QB218	3QB454	3QB455	3B903



Size	10	6	8	10	-	-	-	-
Part No.	3QB219	3QB006	3QB008	3QB010	KTQ42	KTQ43	KTQ48	3QB819

12-10 AWG



Size	6	8	10	1/4	5/16	3/8	1/2
Part No.	3QC606	3QC994	3QC457	3QC772	3QC773	3QC2458	3QC135



Size	6	8	10	6	8	10	-	-	-	-
Part No.	3QC2451	3QC995	3QC495	3QC006	3QC008	3QC010	KTQ82	KTQ83	KTQ52	3QC151



Heat Shrink Terminals

MADE IN USA

Extreme Seal Connectors

A triple layer of protection around a 99.9% copper connector provides the industry's most rugged and environmentally secure design: color coded nylon insulation provides excellent puncture resistance; the adhesive lining blocks out water and adds superior tensile strength and strain relief, while the outer layer of clear polyolefin shrinks down around the wire sheathing to allow a complete environmental and abrasion resistant seal.

22-18 AWG



Size	6	8	10	1/4"	5/16"	3/8"	6	8	10
Part No.	5A8826	5A8906	5A8916	5A8946	5A8956	5A8976	5A0526	5A0536	5A0546

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Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab
Part No.	KTN506	KTN516	KTN246	KTN236

Description	Butt Connector
Part No.	2A0706

16-14 AWG



Size	6	8	10	1/4"	5/16"	3/8"	6	8	10
Part No.	5B9016	5B9026	5B9036	5B9066	5B9076	5B9096	5B0596	5B12336	5B12346



Extreme Seal Connectors



16-14 AWG



Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab
Part No.	KTN486	KTN496	KTN446	KTN456



Description	Butt Connector
Part No.	2B0716

12-10 AWG



Size	10	1/4"	5/16"	3/8"	1/2"	10
Part No.	5C1096	5C1106	5C1116	5C1126	5C1516	5C5896



Description	.250 Receptacle	.250 Tab	.250 Receptacle	.250 Tab
Part No.	KTN526	KTN536	KTN846	KTN856



Description	Butt Connector
Part No.	2C0726



Heat Shrink Terminals

Solderlink



- Temperature Rating: -65° TO 255°F
- Multiple wall polyolefin tubing with meltable, integral inner wall
- Products shown are actual size

24-22 AWG



Description	1.5" Butt Connector
Part No.	3SN2422

20-18 AWG



Size	#6	#8	#10	1/4"	5/16"	3/8"	#10
Part No.	3SA194	3SA990	3SA214	3SA215	3SA452	3SA453	3SA118



Description	Female	Male	Female
Part No.	KTS22	KTS23	KTS50

Description	1.5" Butt Connector
Part No.	3SA818



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Solderlink **MADE IN USA**
 Products shown are actual size

16-14 AWG



Size	#8	#10	1/4"	5/16"	3/8"	#10
Part No.	3SB992	3SB217	3SB218	3SB454	3SB455	3SB219



Description	Female	Male	Female
Part No.	KTS42	KTS43	KTS48

Description	1.5" Butt Connector
Part No.	3SB819

12-10 AWG



Size	#10	1/4"	5/16"	3/8"	1/2"	#10
Part No.	3SC457	3SC772	3SC773	3SC2458	3SC135	3SC495



Heat Shrink Terminals

Solderlink **MADE IN USA**
Products shown are actual size

12-10 AWG



Description	Female	Male	Female
Part No.	KTS82	KTS83	KTS52

Description	1.5" Butt Connector
Part No.	3SC151

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MADE IN USA



Moisture Resistant Butt Connectors

Sealant is a petroleum based corrosion preventative compound, maintaining a stable, grease-like consistency. UL Listed for use on stranded copper wire with a maximum voltage rating of 600 V Building Wire or 1000 Volts Signs or Fixtures (Luminaires). Maximum operating temp is 221°F (105°C).

AWG	Length	Thickness	Part No.
22-18	1.0	0.030	CBD2218
16-14	1.0	0.030	CBD1614
12-10	1.15	0.040	CBD1210

DRYCONN™ Waterproof Sealed Connectors By KING®

Specially formulated silicone sealant controls flash over and protects against heat build-up.



Color	AWG	Part No.
Aqua/Orange	Min 3 #22, Max 2 #14	CBK100
Aqua/Red	Min 6 #22, Max 4 #12	CBK200
Aqua/Dark Blue	Min 4 #14, Max 2 #6 W/1 12	CBK300



Cool Seal Butt Connectors

A heat-less, solderless terminal that installs in a fraction of the time of comparable heat seal connectors.



AWG	Part No.
22-18	CSBC2218
16-14	CSBC1614
12-10	CSBC1210

Features:

- Seals Out Corrosion – Causing Moisture
- A Heat-Less/Solderless Connection
- Patented Anaerobic Technology
- Simply Strip and Crimp
- Nylon Insulation
- Temp. range -65°F to 350°F



Direct Bury Splice Kit

Part No. CBDR6



- Direct bury splice kits splice and effectively moisture seal two or more conductors for remote control circuits in irrigation and landscape lighting
- Designed for installation of underground electrical splices
- Kits contain two polypropylene tubes pre filled with moisture-resistant grease, two 3M™ Performance Plus Wire R/Y+ Connectors, and instructions
- Application temperature range: 32°F to 120°F (0°C to 105°C)
- Operational temperature range: -40°F to 221°F (-40°C to 105°C)
- 600 volt rating; two splices per kit



Weather Resistant Connectors

No-Crimp Butt Connectors

Posi-Lock™ Water Resistant

4x stronger than crimp connectors. Reconnectable and reusable. Installs in seconds with only a pocket knife. Temp. range: up to 482°F (250°C).



AWG	Color	Part No.
18-24	Red	CBL1824
14-16	Blue	CBL1416
10-12	Yellow	CBL1012
6-8	Green	CBL68

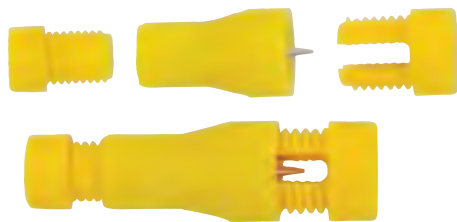
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Posi-Tite™ Watertite

The World's First No Crimp, Reusable, Watertite Connector. Tests at over 12 months of submersion. They have been abused and re-used over 100 times.



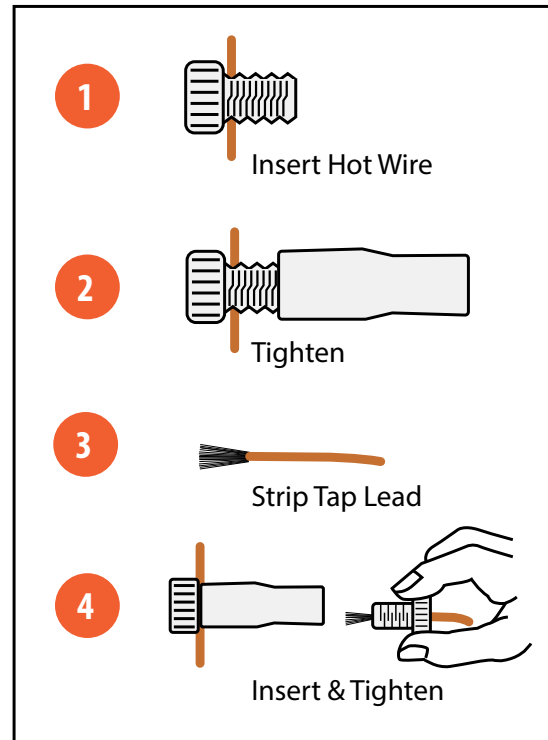
AWG	Part No.
18-20	CBLWT1820
14-16	CBLWT1416



Posi-Tap

- Taps wires without cutting
- Installs in seconds by hand
- Maintains total wire integrity
- No crimping or tools required
- Fully insulated
- Less resistance
- Vibration proof
- Reusable or permanent
- Powers up to 4 leads at once

Run Line (Hot)	Tap Line (Accessory)	Color	Part No.
12 - 18 GA	12 - 18 GA	Black	ELC0056
10 - 12 GA	12 - 18 GA	Yellow	ELC0057





22–18 AWG

MADE IN USA

3M

Nylon Insulated Brass Support Sleeve For Double Crimping

- Temp. rating: -40°F to 221°F
- 600V rating
- Annealed copper – Electro-tin plated
- Most are MIL-SPEC, U.L., C.S.A. or ISO certifie
- Products shown are actual size



Description	Butt Connector
Part No.	5A0705



Size	4	6	6	8	10	1/4"	5/16"	3/8"
Part No.	5A0882	5A881	5A882	5A890	5A891	5A894	5A895	5A897



Size	6	8	10	6	8
Part No.	5A052	5A053	5A054	5A562	5A563



Size	4	6	6	8	10	6	8	10
Part No.	5AA540	5A541	5A080	5A081	5A082	5A006	5A008	5A010

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Nylon Insulated – Type 5

16–14 AWG

MADE IN USA

3M

Nylon Insulated Brass Support Sleeve For Double Crimping

- Temp. rating: -40°F to 221°F
- 600V rating
- Annealed copper – Electro-tin plated
- Most are MIL-SPEC, U.L., C.S.A. or ISO certifie
- Products shown are actual size

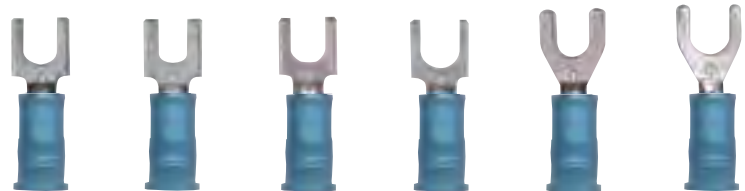


Description	Butt Connector
Part No.	5B0715

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Size	4	6	6	8	10	1/4"	5/16"	3/8"
Part No.	5B441	5B442	5B901	5B902	5B903	5B906	5B907	5B909



Description	Railroad Style: Heavy Duty
Size	1/4"
Part No.	5BR14

Size	6	6	8	10	8	10
Part No.	5B541	5B559	5B1233	5B1234	5B059	5B060

Flanged



Size	6	8	10	10	6	8	10
Part No.	5B0861	5B0862	5B0863	5B481	5B006	5B008	5B010



12–10 AWG

MADE IN USA

3M

Nylon Insulated Brass Support Sleeve For Double Crimping

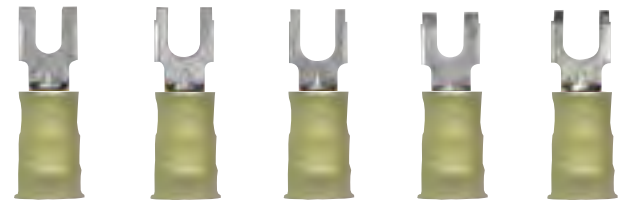
- Temp. rating: -40°F to 221°F
- 600V rating
- Annealed copper – Electro-tin plated
- Most are MIL-SPEC, U.L., C.S.A. or ISO certifie
- Products shown are actual size



Description	Butt Connector
Part No.	5C0725



Size	6	6	8	8	10	1/4"	5/16"	3/8"	1/2"
Part No.	5C149	5C851	5C850	5C108	5C109	5C110	5C111	5C112	5C151



Flanged

Description	Railroad Style: Heavy Duty
Size	1/4"
Part No.	5CR14

Size	6	8	10	6	10
Part No.	5C2451	5C995	5C996	5C4581	5C4583



Size	8	10	1/4"	10	6	8	10	1/4"
Part No.	5C588	5C589	5C590	5C4210	5C006	5C008	5C010	5C014

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Vinyl Insulated – Type 2

22–18 AWG



Insulation	Nylon	Nylon	Vinyl
Part No.	2A0701	2A0702	2A070

Single Crimp

- Temperature Rating: -40°F to 221°F
- 600 Volt Rating
- Annealed Copper – Electro-Tin Plated
- Products shown are actual size



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Size	4	6	6	8	10	1/4"	5/16"	3/8"
Part No.	2A141	2A142	2A144	2A145	2A146	2A150	2A151	2A152

Short Barrel



Flanged



Size	4	6	6	6	8	10	10	6	8	10
Part No.	2AA540	2AA0665	2A541	2A0665	2A542	2A543	2A156	2A2249	2A2250	2A2251



Size	6	8	10	Pin Connector		10
Part No.	2A006	2A008	2A010	2A001		2A503



16–14 AWG

MADE IN USA



Insulation	Nylon	Nylon	Vinyl
Part No.	2B0711	2B0712	2B071

Single Crimp

- Temperature Rating: -40°F to 221°F
- 600 Volt Rating
- Annealed Copper – Electro-Tin Plated
- Products shown are actual size

3M/molex



Size	6	8	10	1/4"	5/16"	3/8"
Part No.	2B158	2B160	2B161	2B162	2B163	2B164

Flanged



Size	6	8	10	8	10
Part No.	2B0861	2B0862	2B0863	2B480	2B481



Size	6	8	10	Pin Connector	Knife Disconnect
Part No.	2B006	2B008	2B010	2B001	2B448



Size	6	6	8	10	8	10	1/4"
Part No.	2B541	2B2994	2B1233	2B1234	2B166	2B167	2B168



Vinyl Insulated – Type 2

12–10 AWG

MADE IN USA

Single Crimp

- Temperature Rating: -40°F to 221°F
- 600 Volt Rating
- Annealed Copper – Electro-Tin Plated
- Products are actual size

3M/molex



Description	Nylon	Nylon	Vinyl	Parallel Connector
Part No.	2C0721	2C0722	2C072	2C136



Size	6	8	8	10	1/4"	5/16"	3/8"	1/2"
Part No.	2C852	2C850	2C853	2C854	2C855	2C856	2C836	2C837



Size	6	8	10	1/4"	6	8	10
Part No.	2C006	2C008	2C010	2C014	2C4581	2C4582	2C4583



SDBS1826



SDBS1422



SDBS1016



SDBS812



Size	6	8	10	10	Pin Connector	10
Part No.	2C2451	2C995	2C996	2C176	2C001	2C4210

Step-Down Butt Connectors

The Step-Down Butt Connectors have two stripes - one on each end - to indicate which wire size to insert. Plus, the stripe indicates the side where a 14 AWG or 16 AWG wire is to be inserted, and it will be crimped in the blue crimp die.

Step-Down Connectors, Vinyl Insulated

Large End		Step-Down End		Insulation Color	Part No.
AWG	Crimp Line	AWG	Crimp Line	Color	
22 - 18	white	26 - 24	red	red	SDBS1826
16 - 14	blue	22 - 18	red	blue	SDBS1422
12 - 10	yellow	16 - 14	blue	yellow	SDBS1016
8	red	12 - 10	yellow	red	SDBS812

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8 AWG – 4/0 Large GA Insulated Lugs

- Temperature Rating: -40°F to 221°F
- 600 Volt Rating
- Annealed Copper – Electro-Tin Plated
- Products shown are actual size

8–4/0 AWG

MADE IN USA

3M/molex



8 AWG			
Description	Insulation	Size	Part No.
Ring	Nylon	#10	2D460
	Vinyl	#10	2D459
	Nylon	1/4"	2D461
	Nylon	5/16"	2D462
	Nylon	3/8"	2D463
	Nylon	1/2"	2D664
Butt Connector	Vinyl	–	2D321



6 AWG			
Description	Insulation	Size	Part No.
Ring	Nylon	#10	2E1298
		1/4"	2E1598
		5/16"	2E466
		3/8"	2E467
		1/2"	2E0344
Butt Connector	Vinyl	–	2E322



4 AWG			
Description	Insulation	Size	Part No.
Ring	Nylon	#10	2F468
		1/4"	2F469
		5/16"	2F470
		3/8"	2F471
		1/2"	2F668
Butt Connector	Vinyl	–	2F323



2 AWG			
Description	Insulation	Size	Part No.
Ring	Vinyl	1/4"	2G0383
		5/16"	2G2870
		3/8"	2G1600
		1/2"	2G1602
Butt Connector	Vinyl	–	2G189

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Vinyl Insulated – Type 2

**MADE IN
USA**



1/0 AWG			
Description	Insulation	Size	Part No.
Ring	Vinyl	3/8"	2H917



2/0 AWG			
Description	Insulation	Size	Part No.
Ring	Vinyl	3/8"	2J1871
		1/2"	2J1873
Butt Connector	Vinyl	–	2J958



3/0 AWG			
Description	Insulation	Size	Part No.
Ring	Nylon	3/8"	2K1876
	Vinyl	1/2"	2K1878



4/0 AWG			
Description	Insulation	Size	Part No.
Ring	Nylon	3/8"	2L1878
		1/2"	2L1880

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“STA-KON” Ring Terminals



Thomas & Betts

- Temp. rating: 105°C
- 600V
- Annealed copper – Electro-tin plated
- Products shown are actual size

22–16 AWG



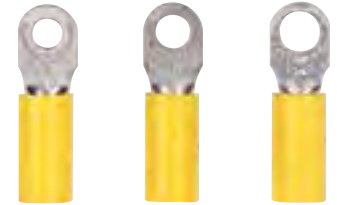
Size	10
Part No.	7A210

18–14 AWG



Size	10
Part No.	7B210

12–10 AWG



Size	6	8	10
Part No.	7C26	7C28	7C210

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Vinyl Insulated – AP

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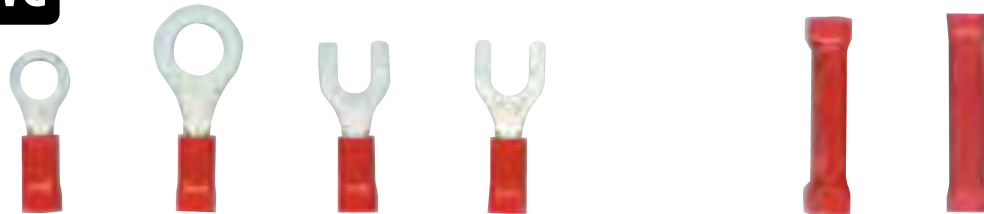


Plasti-Grip Insulated Single Crimp

Temperature Rating: 90°C Max. Basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727. Products are shown actual size.

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22–16 AWG



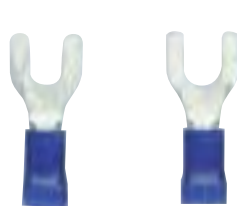
Size	10	1/4"	8	10
Part No.	AP34149	AP34150	AP34155	AP34156

Description	Butt Splice	
Part No.	AP34243	AP34070

16–14 AWG



Size	6	8	10	1/4"	5/16"	3/8"
Part No.	AP34158	AP34160	AP34161	AP34162	AP34163	AP34164



Size	8	10
Part No.	AP34166	AP34167



Description	Butt Splice
Part No.	AP34071



Plasti-Grip Insulated Single Crimp

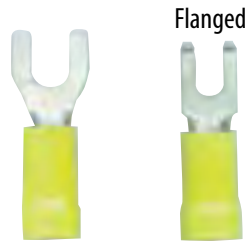


12–10 AWG



Size	6	8	10	1/4"	5/16"	3/8"	1/2"
Part No.	AP34852	AP34853	AP34854	AP34855	AP34856	AP34173	AP34837

Description	Butt Splice
Part No.	AP34072



Flanged

Size	10	6
Part No.	AP34176	AP324581



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8 AWG



Size	10	1/4"	1/2"
Part No.	AP522631	AP520411	AP522621

6 AWG



Size	1/2"
Part No.	AP52350



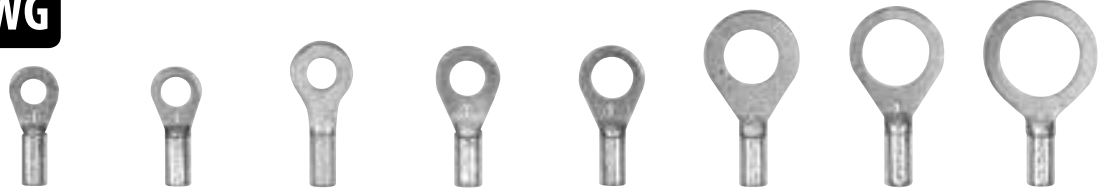
Non-Insulated – Type 3

Non-Insulated Brazed Seam



- Temperature Rating: 347°F
- Continuous duty
- 600 Volt Rating
- Annealed Copper – Electro-Tin Plated
- Products shown are actual size

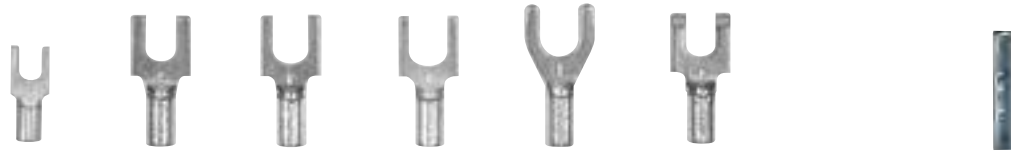
22–14 AWG



Size	4	6	6	8	10	1/4"	5/16"	3/8"
Part No.	3A104	3A194	3A213	3A990	3A214	3A215	3A452	3A453

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Flanged



Size	4	6	8	10	10	6	Description	Butt Connector
Part No.	3AA540	3A897	3A898	3A899	3A118	3A0749	Part No.	3A818

16–14 AWG



Size	4	6	6	8	10	1/4"	5/16"	3/8"
Part No.	3B991	3B197	3BB120	3B992	3B217	3B218	3B454	3B455



Size	6	6	8	10	10
Part No.	3B541	3B903	3B904	3B905	3B219



Non-Insulated Brazed Seam
Products shown are actual size.

MADE IN USA

3M/molex®

16–14 AWG



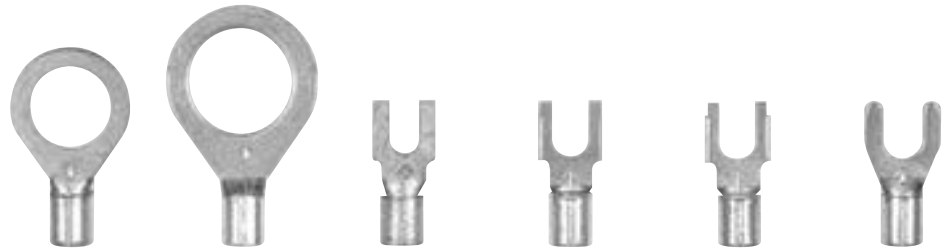
Size	10	10	10
Part No.	3B043S	3B043	3B448

Description	Butt Connector
Part No.	3B819

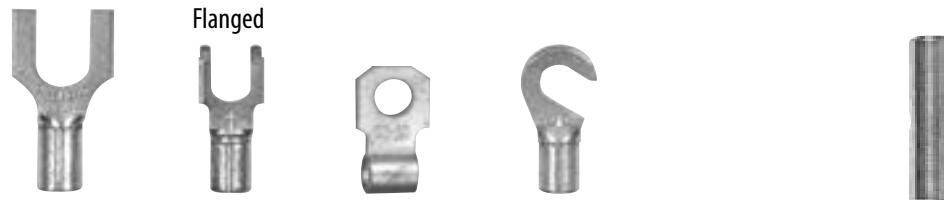
12–10 AWG



Size	6	8	8	10	1/4"	5/16"
Part No.	3C606	3C608	3C994	3C457	3C772	3C773



Size	3/8"	1/2"	6	8	10	10
Part No.	3C2458	3C135	3C2451	3C995	3C996	3C495



Size	1/4"	10	10	10
Part No.	3C496	3C0857	3C044	3C420

Description	Butt Connector
Part No.	3C151

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Non-Insulated – Type 3

Non-Insulated Brazed Seam
Products shown are actual size.



3M/molex®

8 AWG



Size	8	10	1/4"	5/16"	3/8"	3/8"	1/2"
Part No.	3D996	3D460	3D461	3D462	3D463	3D463L	3D664



Description	Parallel Connector	Butt Connector
Part No.	3D318	3D321

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6 AWG



Size	#10	1/4"	5/16"	3/8"	1/2"
Part No.	3E1298	3E1598	3E466	3E467	3E0344

Description	Parallel Connector	Butt Connector
Part No.	3E319	3E322

4 AWG



Size	#10	1/4"	1/4"	5/16"	3/8"	1/2"	5/8"
Part No.	3F468	3F469	3F469N	3F470	3F471	3F668	3F669



Non-Insulated Brazed Seam



Products shown are actual size.

4 AWG



Description	Parallel Connector	Butt Connector
Part No.	3F320	3F323



2 AWG



Size	1/4"	5/16"	3/8"	7/16"	1/2"	1/4"	5/8"
Part No.	3G0383	3G2870	3G1600	3G0741	3G1602	3G206	3G0754



Description	Parallel Connector	Butt Connector
Part No.	3G187	3G189

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Non-Insulated – Type 3

Non-Insulated Brazed Seam

Products shown are actual size.



1/0 AWG



Size	1/4"	5/16"	3/8"	7/16"	1/2"	3/8"
Part No.	3H915	3H916	3H917	3H918	3H919	3H109

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Description	Parallel Connector	Butt Connector
Part No.	3H946	3H957



2/0 AWG



Size	1/4"	5/16"	3/8"	7/16"	1/2"	3/4"
Part No.	3J1869	3J1870	3J1871	3J1872	3J1873	3J2225



Non-Insulated Brazed Seam
Products shown are actual size.

MADE IN USA

3M/molex®

2/0 AWG



Description	Parallel Connector	Butt Connector
Part No.	3J948	3J958



3/0 AWG



Size	5/16"	3/8"	1/2"
Part No.	3K1875	3K1876	3K1878

Description	Butt Connector
Part No.	3K959

4/0 AWG



Size	3/8"	1/2"	3/4"
Part No.	3L1878	3L1880	3L2228

Description	Butt Connector
Part No.	3L960

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Non-Insulated - AP

Solistrand



- Temperature rating 170°C (338°F)
- UL & CSA listed 600 Volts
- Annealed Copper
- Electro-tin plated
- Brazed seams
- Barrels dimpled or serrated
- Beveled mouth
- Products shown are actual size

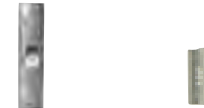


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22-16 AWG



Stud Size	6	6	8	10	10
Part No.	AP322776	AP34105	AP34108	AP34112	AP34109
Mil-Spec No.	-	-	-	M7928/7-4	-



Description	Butt Splice	Parallel Splice
Part No.	AP31818	AP34130

16-14 AWG



Size	8	10	1/4"
Part No.	AP34122	AP34123	AP34124



Description	Butt Splice	Parallel Splice
Part No.	AP31819	AP34137

12-10 AWG



Size	8	10	1/4"	1/4"	5/16"
Part No.	AP322454	AP33457	AP35772	AP33458	AP33459
Mil-Spec No.	-	MS20659-105	-	-	MS20659-106



Description	Butt Splice	Parallel Splice
Part No.	AP32151	AP34138

8 AWG



Size	8	10	1/4"	5/16"	3/8"
Part No.	AP32996	AP33460	AP33461	AP33462	AP33463
Mil-Spec No.	-	-	MS20659-141	-	MS20659-129



Solistrand

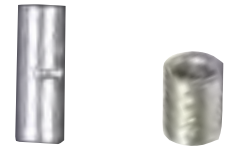


Products shown are actual size.

8 AWG



Size	1/2"	1/2"	3/4"
Part No.	AP35664	AP320344	AP35666
Mil-Spec No.	-	MS20659-143	-



Description	Butt Splice	Parallel Splice
Part No.	AP34321	AP34318

6 AWG



Size	10	10	10	1/4"	5/16"	3/8"
Part No.	AP321298	AP33464	AP321298	AP321598	AP33466	AP33467
Mil-Spec No.	MS20659-130	-	MS20659-130	MS20659-109	MS20659-131	MS20659-110



Size	1/2"	5/8"
Part No.	AP320344	AP36809
Mil-Spec No.	MS20659-143	-



Description	Butt Splice	Parallel Splice
Part No.	AP34322	AP34319

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Non-Insulated - AP

Solistrand

MADE IN USA



Products shown are actual size.

4 AWG



Size	1/4"	5/16"	3/8"	3/8"	1/2"
Part No.	AP33469	AP33470	AP33471	AP321121	AP327175
Mil-Spec No.	-	-	-	-	MS20659-145



Size	5/8"	3/4"	Description	Butt Splice	Parallel Splice
Part No.	AP35669	AP35670	Part No.	AP34323	AP34320

2 AWG



Size	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"
Part No.	AP320383	AP322870	AP321600	AP320741	AP35185	AP320754
Mil-Spec No.	MS20659-113	MS20659-147	MS20659-114	MS20659-148	-	-

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Solistrand



Products shown are actual size.

2 AWG



Description	Butt Splice	Parallel Splice
Part No.	AP35189	AP35187



1/0 AWG



Size	1/4"	5/16"	3/8"	7/16"	1/2"
Part No.	AP36915	AP36916	AP36917	AP36918	AP36919
Mil-Spec No.	-	-	-	MS20659-152	MS20659-135



Size	5/8"	3/4"
Part No.	AP320744	AP320748



Description	Butt Splice	Parallel Splice
Part No.	AP36957	AP36946

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Non-Insulated - AP

Solistrand

MADE IN USA



Products shown are actual size.

2/0 AWG



Size	1/4"	5/16"	3/8"	3/8"	7/16"	1/2"
Part No.	AP321869	AP36922	AP36923	AP321584	AP321872	AP36925
Mil-Spec No.	-	-	-	-	MS20659-154	-

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Size	5/8"
Part No.	AP322224



Description	Butt Splice	Parallel Splice
Part No.	AP36958	AP36948





Solistrand

MADE IN USA



Products shown are actual size.

3/0 AWG



Size	3/8"	7/16"	1/2"	5/8"
Part No.	AP36927	AP321876	AP36929	AP322222
		MS20659-156		



Description	Butt Splice	Parallel Splice
Part No.	AP36959	AP36909



4/0 AWG



Size	3/8"	1/2"
Part No.	AP36932	AP36934



Size	Butt Splice	Parallel Splice
Part No.	AP36960	AP36951



Non-Insulated - AP



Solistrand

Products shown are actual size.

250 – 300 MCM



Size	3/8"
Part No.	AP322252

300 – 350 MCM



Description	Butt Splice
Part No.	AP322279



Description	Butt Splice
Part No.	AP322280

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400 MCM



Size	3/8"
Part No.	AP322262





22–16 AWG



Size	6	8	10
Part No.	7A36	7A38	7A310

18–14 AWG



Size	6	8	10
Part No.	7B36	7B38	7B310

12–10 AWG



Size	6	8	10	3/8"
Part No.	7C36	7C38	7C310	7C338

8 AWG



Size	10
Part No.	7D310

"STA-KON" Ring Terminals

- Temp. rating: 105°C
- 600V
- Annealed copper – Electro-tin plated
- Products shown are actual size

Thomas & Betts



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Non-Insulated – Type 8

High Temperature Non-Insulated

- Nickel-Plated Steel Alloy
- 900°F
- Products shown are actual size

*Indicates nickel-plated, annealed copper terminals and connectors rated for 650°F continuous duty. All other terminals and connectors shown are nickel-plated, steel alloy rated for 900°F continuous duty.

22–18 AWG



Size	6	8	10	1/4"	6	10
Part No.	8A213	8A990	8A214	8A712	8A897	8A118

Description	Parallel Connector	Butt Connector
Part No.	8A130*	8A818

16–14 AWG



Size	6	8	10	1/4"	6	8	10
Part No.	8B197	8B992	8B217	8B218	8B903	8B827	8B219

Description	Butt Connector
Part No.	8B819

12–10 AWG



Size	6	8	10	1/4"	10
Part No.	8C476	8C994	8C457	8C772	8C495

Description	Parallel Connector	Butt Connector
Part No.	8C138*	8C151

8 AWG



Size	10	1/4"
Part No.	8D460*	8D461

6 AWG



Size	3/8"
Part No.	8E294

"Kwik-ON" Terminals for High Temperature Applications



AWG	16 – 14	16 – 14	16 – 14	16 – 14	12 – 10
Insulation	None	None	None	None	None
Type	Receptacle	Tab	Receptacle	Receptacle	Receptacle Straight
Tab Width	.250	.250	.187	.250	.250
Part No.	KTW50	KTW51	KRW52	KTW53	KTW54



Color-Coded Industrial Lugs

- One Hole and Two Hole Lugs
- Temperature Rating: 221°F
- 600-35KV Volt Rating
- Electro-Tin Plated to resist corrosion
- Products shown are NOT actual size



Single Stud Hole – Long Barrel			
AWG	Stud Size	Die	Part No.
8	1/4"	Red	4D461
6	1/4"	Blue	4E1598
4	1/4"	Gray	4F469
2	5/16"	Brown	4G2870
1	5/16"	Green	4GH1516
1/0	3/8"	Pink	4H916
2/0	3/8"	Black	4J1871
3/0	1/2"	Orange	4K1878
4/0	1/2"	Purple	4L1880
250 mcm	1/2"	Yellow	4M2512
300 mcm	1/2"	White	4N3012
350 mcm	1/2"	Red	4P3512
500 mcm	5/8"	Brown	4Q5058
750 mcm	5/8"	Black	4R7558

Single Stud Hole – Short Barrel			
AWG	Stud Size	Die	Part No.
8	#10	Red	4D810
8	1/4"	Red	4D814
8	5/16"	Red	4D8516
8	3/8"	Red	4D838
6	#10	Blue	4E610
6	5/16"	Blue	4E6516
6	3/8"	Blue	4E638
4	#10	Gray	4F410
4	1/4"	Gray	4F414
4	5/16"	Gray	4F4516
4	3/8"	Gray	4F438
2	1/4"	Brown	4G214
2	5/16"	Brown	4G2516
2	3/8"	Brown	4G238
2	1/2"	Brown	4G212
1	3/8"	Green	4GH138
1/0	1/4"	Pink	4H1014
1/0	5/16"	Pink	4H10516
1/0	3/8"	Pink	4H1038
1/0	1/2"	Pink	4H1012
2/0	1/4"	Black	4J2014
2/0	5/16"	Black	4J20516
2/0	3/8"	Black	4J2038
2/0	1/2"	Black	4J2012
3/0	3/8"	Orange	4K3038
4/0	1/2"	Purple	4L4012
250 mcm	1/2"	Yellow	4M25012
300 mcm	1/2"	White	4N30012
350 mcm	1/2"	Red	4P35012



Non-Insulated Ratchet Tool

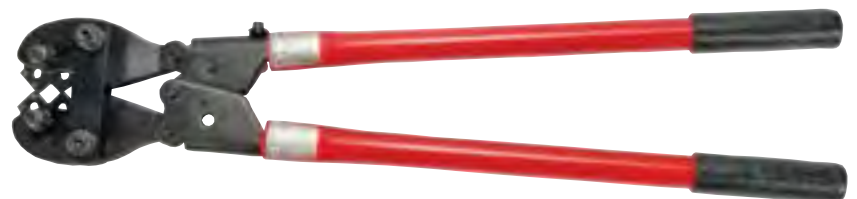
Part No: RT45S

Ergonomically correct, for color-coded lugs and splices, 8 – 2 GA.

Diamond Crimper Tool

Part No: RC840A

6GA – 250 MCM, for lugs. Uses rotating dies.





Non-Insulated – Type 4



Double Stud Hole – Short Barrel			
AWG	Stud Size	Die	Part No.
2	1/4"	Brown	4G224



Double Stud Hole – Long Barrel			
AWG	Stud Size	Die	Part No.
2/0	1/2"	Black	4J1872
3/0	1/2"	Orange	4K1879
4/0	1/2"	Purple	4L1881
250 mcm	1/2"	Yellow	4M2522
300 mcm	1/2"	White	4N3022
350 mcm	1/2"	Red	4P3522
500 mcm	1/2"	Brown	4Q5022
750 mcm	1/2"	Black	4R7522



Butt Connectors		
AWG	Die	Part No.
8	Red	4D321L
6	Blue	4E322L
4	Gray	4F323L
2	Brown	4G189L
1	Green	4GH195L
1/0	Pink	4H957L
2/0	Black	4J958L
3/0	Orange	4K959L
4/0	Purple	4L960L
250 mcm	Yellow	4M250L
300 mcm	White	4N300L
350 mcm	Red	4P350L
400 mcm	Blue	4PQ400L
500 mcm	Brown	4Q500L
600mcm	Green	4QR600L

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Industrial Lugs – Color Coded



- Copper compression terminals for regular-duty applications
- Inspection hole ensures proper insertion of cable
- Tin-plated
- Marked with die index and color code
- UL listed 90°C
- 600 Volts to 35 kV*

*For applications greater than 2000 Volts consult cable manufacturer for voltage stress relief instructions.



One Hole HYLUG™ – Standard Barrel 90 Degree			
AWG	Stud Size	Die	Part No.
8	#8–10	Red	YA8CL90
	1/4"		YA8CL190
	5/16"		YA8CL290
6	#8–10	Blue	YA6CL190
	1/4"		YA6CL90
	5/16"		YA6CL390



One Hole HYLUG™ – Standard Barrel			
AWG	Stud Size	Die	Part No.
8	#8–10	Red	YA8CLBOX
	1/4"		YA8CL1BOX
	5/16"		YA8CL2BOX
6	#8–10	Blue	YA6CL1BOX
	1/4"		YA6CLBOX
	5/16"		YA6CL3BOX
4	#8–10	Gray	YA4CL1BOX
	1/4"		YA4CLBOX
	5/16"		YA4CL3BOX
2	1/4"	Brown	YA2CL2BOX
	5/16"		YA2CLBOX



One Hole HYLUG™ – Standard Barrel 45 Degree			
AWG	Stud Size	Die	Part No.
8	#8–10	Red	YA8CL45
	1/4"		YA8CL145
	5/16"		YA8CL245
6	#8–10	Blue	YA6CL145
	1/4"		YA6CL45
	5/16"		YA6CL345



- Standard barrel copper compression splices for regular duty applications
- Center stop ensures proper insertion of cable
- Ideal for limited space applications while providing ample barrel length for proper crimp

Butt Splice Standard Barrel		
AWG	Die	Part No.
8	Red	YS8CLBOX
6	Blue	YS6CLBOX
4	Gray	YS4CLBOX
2	Brown	YS2CLBOX

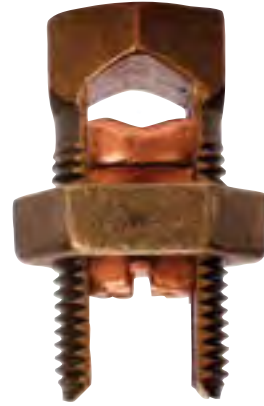
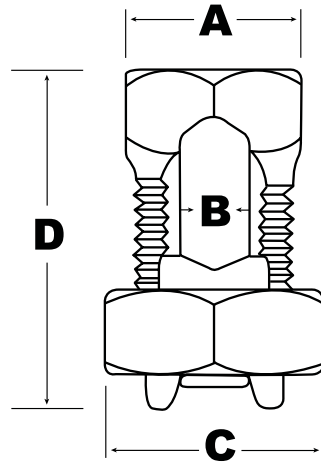


One Hole HYLUG™ – Standard Barrel Narrow Tongue			
AWG	Stud Size	Die	Part No.
4	#10	Gray	YA4CLNT10
2	#10	Brown	YA2CLNT10
	1/4"		YA2CLNT14
	5/16"		YA2CLNT516

- HYLUG™ Type YA-L-NT narrow tongue design permits the termination of conductors into confined spaces and applications including molded case circuit breakers, motor controllers, safety switches, etc.



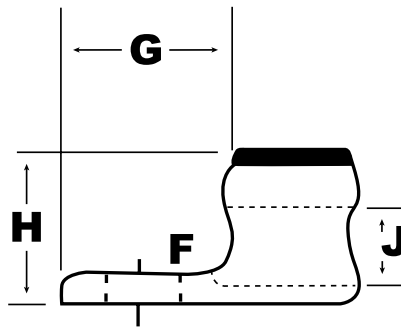
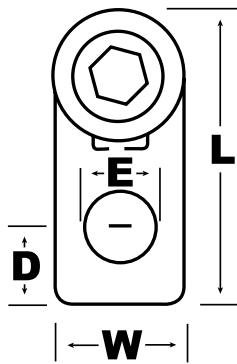
Non-Insulated, Mechanical



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Split Bolt Connectors – 600V

Range for Equal Main & Tap	Min. Tap w/ One Max. Main	A	B	C	D	Part No.
10 STR. – 12 SOL.	14 SOL.	3/8	0.146	1/2	25/32	SB9
8 STR. – 10 SOL.	14 SOL.	3/8	.146	1/2	25/32	SB8
6 SOL. – 8 SOL.	14 SOL.	15/32	.170	21/32	31/32	SB6
4 SOL. – 8 SOL.	14 SOL.	17/32	.235	23/32	1-1/16	SB4
3 SOL. – 8 SOL.	16 STR.	17/32	.235	23/32	1-1/16	SB3
2 SOL. – 6 SOL.	14 SOL.	19/32	.271	25/32	1-1/4	SB2
2 STR. – 6 SOL.	14 SOL.	11/16	.330	7/8	1-11/32	SB1
1/0 STR. – 4 SOL.	14 SOL.	3/4	.385	15/16	1-19/32	SB10
2/0 STR. – 2 SOL.	14 SOL.	7/8	.443	1-1/16	1-13/16	SB20
4/0 STR. – 2 SOL.	6 SOL.	1	.580	1-5/16	2-5/32	SB30
250 MCM – 1 STR.	8 SOL.	1	.580	1-5/16	2-5/32	SB40



Mechanical Lugs

Max.	Min.	L	W	H	F	D	J	E	G	Part No.
8 STR.	14 SOL.	13/16	3/8	3/8	3/32	13/64	11/64	#10	1/2	ML3
4 STR.	14 SOL.	1/1-8	17/32	35/64	3/32	9/32	9/32	1/4	21/32	ML7
1/0 STR.	8 SOL.	1-1/2	47/64	3/4	3/32	3/8	27/64	5/16	27/32	ML1
250MCM	6 STR.	1-61/64	15/16	1-1/16	1/8	19/64	5/8	3/8	1-3/32	ML2
500 MCM	4/0 STR.	3	1-19/32	1-15/32	9-32	5/8	7/8	1/2	1-5/8	ML4

Slotted Screw
Hex Screw



KWIK-ON Connectors 3M/molex

Products shown are actual size.

.110 Tab Width Series – 7/64"



Part No.	KMN10	KMN39	KMN40	KMP40	KMP41	KMW37
AWG	26–20	22–18	22–18	16–14	16–14	16–14
Insulation	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve	Vinyl	Vinyl	None
Type	Receptacle	Receptacle	Tab	Receptacle	Tab	Receptacle

.187 Tab Width Series – 3/16"



Part No.	KRP41	KRP42	KRN24	KRP38	KRP39	KRN41	KRN42
AWG	22–18	22–18	22–18	16–14	16–14	16–14	16–14
Insulation	Vinyl	Vinyl	Nylon w/support sleeve	Vinyl	Vinyl	Nylon w/support sleeve	Nylon w/support sleeve
Type	Receptacle	Tab	Receptacle	Receptacle	Tab	Receptacle	Tab



Part No.	KRN50	KRN51	KRN67	KRN95	KRN96	KRN68
AWG	22–18	22–18	22–18	16–14	16–14	16–14
Insulation	Nylon w/support sleeve	Nylon w/support sleeve	Nylon	Nylon w/support sleeve	Nylon w/support sleeve	Nylon
Type	Receptacle	Tab	Receptacle–90°	Receptacle	Tab	Receptacle–90°



Part No.	KRW21	KRW33	KRW36	KRW37
AWG	22–18	16–14	18–14	22–18
Insulation	None	None	None	None
Type	Receptacle	Receptacle	Flag Receptacle	Flag Receptacle

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Disconnects

KWIK-ON Connectors 3M/molex

Products shown are actual size.

.250 Tab Width Series – 1/4"



Part No.	KTP22T	KTP23T	KTP22	KTP23	KTN24	KTN23
AWG	22–18	22–18	22–18	22–18	22–18	22–18
Insulation	Vinyl	Vinyl	Vinyl	Vinyl	Nylon w/support sleeve	Nylon w/support sleeve
Type	Receptacle	Tab	Receptacle	Tab	Receptacle	Tab



Part No.	KTN25	KTN50	KTN51	KTN91	KTN92	KTN64
AWG	22–18	22–18	22–18	22–18	22–18	22–18
Insulation	Nylon w/support sleeve	Nylon	Nylon	Nylon w/support sleeve	Nylon w/support sleeve	Nylon
Type	Tab	Receptacle	Tab	Receptacle	Tab	Receptacle–90°



Part No.	KTW30S	KTW34	KTW89
AWG	22–18	22–18	22–18
Insulation	None	None	None
Type	Receptacle	Receptacle	Receptacle–90°



Part No.	KTP42	KTP43	KTP41	KTN44	KTN45	KTN46	KTN47
AWG	16–14	16–14	16–14	16–14	16–14	16–14	16–14
Insulation	Vinyl	Vinyl	Vinyl	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve
Type	Receptacle	Tab	Receptacle	Receptacle	Tab	Receptacle	Tab

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KWIK-ON Connectors **3M/molex**

Products shown are actual size.

.250 Tab Width Series – 1/4"



Part No.	KTN48	KTN49	KTN54	KTN55	KTN93	KTN94
AWG	16-14	16-14	16-14	16-14	16-14	16-14
Insulation	Nylon	Nylon	Nylon	Nylon	Nylon w/support sleeve	Nylon w/support sleeve
Type	Receptacle	Tab	Receptacle	Tab	Receptacle	Tab



Part No.	KTN60	KTN65	KTW30	KTW62	KTW31	KTW60
AWG	16-14	16-14	16-14	16-14	16-14	16-14
Insulation	Nylon	Nylon	Non-insul. w/ support sleeve	None	None	None
Type	Receptacle-90°	Receptacle-90°	Receptacle	Receptacle	Tab	Receptacle



Part No.	KTP82	KTP83	KTP70	KTP71	KTN52	KTN53
AWG	12-10	12-10	12-10	12-10	12-10	12-10
Insulation	Vinyl	Vinyl	Vinyl	Vinyl	Nylon	Nylon
Type	Receptacle	Tab	Receptacle	Tab	Receptacle	Tab



Disconnects

KWIK-ON Connectors

Products shown are actual size.

.250 Tab Width Series – 1/4"



Part No.	KTN84	KTN85	KTN62	KTN61	KTN63	KTN66
AWG	12-10	12-10	12-10	12-10	14-12	12-10
Insulation	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve	Nylon w/support sleeve	Nylon
Type	Receptacle	Tab	Receptacle	Tab	Receptacle	Receptacle-90°



Part No.	KTN95	KTN96	KTW80	KTW81	KTW32	KTW88
AWG	12-10	12-10	12-10	12-10	18-12	12-10
Insulation	Nylon w/support sleeve	Nylon w/support sleeve	None	None	None	None
Type	Receptacle	Tab	Receptacle	Tab	Receptacle	Receptacle

.375 Tab Width Series – 3/8"



Part No.	KNP61
AWG	12-10
Insulation	Vinyl
Type	Receptacle



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KWIK-ON Connectors

Products shown are actual size.

Duplex Connectors—All .250" Tab Width



Description	45° Tab	Straight	—	Tab Adapter	—	—
Part No.	DC490	DC390	DC450	AP617652	DC350	DC190
Mounting Hole	#8	#10				



AWG	—	—	22–18	16–14	16–14	16–14
Part No.	DC130	DC150	DC250A	DC250	DC250P	AP1604632

Fuse Clip Adapters

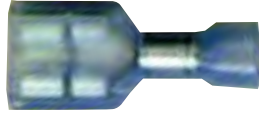


Description	—	—	1/4" Tab	3/16" Tab
Fuse Type	For all 1/4" dia. glass type fuses	For ATC fuses	For ATC type fuses	For mini fuses
Part No.	DC600	DC610	DC620	DC630



Disconnects

Faston/Pidge Receptacles & Tabs



Insulated Receptacles

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.110/.125 × .020	.100	26-22	AP5203662
.110/.125 × .016	.120	26-22	AP5200812
.110/.125 × .020	.120	22-18	AP5200842
.110/.125 × .032	.120	22-18	AP5202732
.187 × .020	.135	22-18	AP5201822
.187 × .032	.135	22-18	AP5201942
.187 × .020	.160	16-14	AP3508161
.187 × .032	.160	16-14	AP5201251
.250 × .032	.135	22-18	AP5201842
	.230	22-18	AP5202642
	.160	16-14	AP3508202
	.260	16-14	AP5201412
	.320	12-10	AP5204482

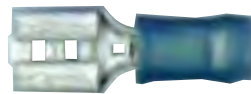
Insulated Flag

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 × .032	.165	22-18	AP5201292
	.185	16-14	AP5201332
.187 × .020	.165	22-18	AP5203352
.187 × .032	.165	22-18	AP5203372
.187 × .020	.185	16-14	AP5203392



Insulated Tabs

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 × .032	.135	22-18	AP5201032
	.160	16-14	AP5201072
	.320	12-10	AP5210982



PIDG Receptacles

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 × .032	0.14	22-18	AP6409031
	0.17	16-14	AP6409051
	0.25	12-10	AP6409071
.187 × .020	0.085	26-24	AP6413211
	0.135	22-18	AP6409171
	0.17	16-14	AP6409191
.110 × .020	0.14	22-18	AP6409231
	0.17	16-14	AP6409291

PIDG Receptacle – Fully Insulated

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 × .032	.157	18-14	AP735159



PIDG Tabs

Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 × .032	.14	22-16	AP660232
	.17	16-14	AP660246
	.25	12-10	AP660256

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Faston/Pidge Receptacles & Tabs



In-Line Splice		
Mating Tab	AWG	Part No.
.250	22-10	AP321235



Uninsulated Receptacles with Straight Insulation Support			
Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
.250 x .032	.060 - .130	22-18	AP608782
	.120 - .170	18-14	AP41729
	.120 - .170	18-14	AP607051†
.150 - .200	14-10	AP612271	
.187 x .020	.090 - .130	20-16	AP425661
.110 x .020	.060 - .100	22-18	AP424701



Uninsulated Flag Receptacles			
Mating Tab Size	Ins. Dia. Max.	AWG	Part No.
250 x .032	.110 - .210	18-12	AP41898

† Hi-Temp - 250°C

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Special Application Terminals



.250 FASTIN-FASTON Harness Connector			
AWG	-	18-14 AWG	18-16 AWG
Description	Receptacle Housing	.250 Receptacle	.250 Tab
Part No.	AP4801151	AP422822	AP425652

Compressor Terminals		
Wire Gauge	Tab Width	Part No.
16-14	0.25	KTW91
12-8	0.25	KTW90



KTW91



KTW90



Disconnects

Multiple Connector Housings



Description	Disconnect Housing (2 cells)	Dimmer Switch Housing (3 cells)	Alternator Housing (2 cells)
Part No.	DRH2	MDH3	ATH2

Receptacle Housings and Inserts



AWG	-	-	18-14
Description	Receptacle housing for STM1	Receptacle housing for STT1	Male tab
Part No.	STMHO	STTHO	STT1

Receptacle Terminals



AWG	18-14	12-10
Description	Delphi '56	-
Part No.	STM1	STM2



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Snap Plugs .156" Dia.

Products shown are actual size. Measure at widest point of the plug.



Part No.	SP846	SP224	SP223	SP225	TT1	SP227
AWG	16-14	22-20-18	22-20-18	16-14	16-14	16-14
Insulation	None	Vinyl	Nylon w/support sleeve	Vinyl	Nylon	Nylon w/support sleeve
Type	Male	Male	Male	Male	Male	Male



Part No.	AP324225	SP849	AP1653991	SP844
AWG	16-14	22-18	20-18	22-20-18
Insulation	Nylon w/support sleeve	Vinyl	Nylon w/support sleeve	Nylon w/support sleeve
Type	Male	Female	Female	Female



Part No.	SP850	SP845	AP1654291
AWG	16-14	16-14	16-14
Insulation	Vinyl	Nylon w/support sleeve	Nylon w/support sleeve
Type	Female	Female	Female



Disconnects

Snap Plugs .180" Dia.

Products shown are actual size. Measure at widest point of the plug.



Part No.	SP241	SP228	AP324228
AWG	16-14	16-14	16-14
Insulation	Vinyl	Nylon w/support sleeve	Vinyl
Type	Male	Male	Male



Part No.	SP842	SP847	SP851
AWG	18-16-14	16-14	16-14
Insulation	None	Nylon w/support sleeve	Vinyl
Type	Female	Female	Female

Snap Plugs .200" Dia.

Products shown are actual size.
Measure at widest point of the plug.



Part No.	SP231	SP232
AWG	12-10	12-10
Insulation	Vinyl	Vinyl
Type	Male	Female





Pressure – Type Ideal® Wire Nuts



U.L. Listed as pressure-type wire connectors. Complies with Federal Specification W-S-610E, are U.L. 486C Listed, CSA C22.2 #188 Certified and rated at 105°C/221°F to handle all branch circuit and fixture splicing applications. Classified in accordance with IEC Publications 998-2 and 998-2-4. Tough, U.L. 94V-2 flame retardant shell will not crack or break, even when applied to max. wire combinations under extreme pressure. Thermoplastic shell stands up to extreme environments. 1,000V Maximum in Fixtures and Signs



AWG Combination Range (Inches)	Color	Part No.
300V, 22–16, min. 2 #22 STR, max. 2 #16	Gray	30071
300V, 22–14, min. 2 #22, max. 3 #16	Blue	30072
600V, 22–14, min. 1 #18 & #20, max. 4 #16 & 1 #18	Orange	30073
600V, 18–12, min. 2 #18, max. 4 #14 & 1 #18	Yellow	30074
600V, 18–10, min. 2 #14, max. 2 #10 & 2 #12	Red	30076

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Hi-Temp

Ceramic

For high temperature applications over 150°C (302°F). Rated for 300V.

AWG	Part No.
18 – 14	411
16 – 14	415
16 – 12	417
14 – 12	418



High-Temp Plastic

Black thermoplastic shell which is rated for higher temperatures (150°C/ 302°F).

AWG	Voltage	Part No.
22 – 16	300V	WN151
22 – 14	300V	WN152
	600V	WN153
22 – 12	600V	WN159



Performance Plus **3M**

Because of their increased wire range, **just three 3M™ “Performance Plus” Wire Connectors replace the traditional seven**, and still cover the entire 600-volt copper wire range. One-of-a-kind design that incorporates a flexible skirt and a rigid top. The flexible skirt covers over-strips and protects conductors, yet conforms to whatever space is available in a box 600 Volts, 105°C.

Wire Range Colors	Part No.
Orange & Blue	SL20B
Red & Yellow	SL2RY
Blue & Gray	SL2BG





Wire Connectors

Wing (Freespring Pressure – Type)

Freespring connectors are U.L. listed as Pressure Type connectors for 600V maximum building wiring; 1,000V maximum signs or fixtures. Temperature rating is 105°C.



AWG Combination Range	Color	Part No.
600V, 22–8, min. 3 #22, max. 3 #10	Beige	3450
600V, 18–10, min. 2 #18, max. 3 #12	Yellow	3451
600V, 18–10, min. 2 #14, max. 5 #12	Red	3452
600V, 18–8, min. 2 #12, max. 3 #10 with 1 #12	Gray	3453
600V, 14–6, min. 3 #12, max. 1 #16 & 2 #8	Blue	3454

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Closed-End Connectors



AWG	22–14	22–10	22–10	22–14	18–8
Part No.	AP35115	AP35653	AP36965	AP36964	AP320788

Closed-End Connectors



U.L. and C.S.A. temp. rated for 105°C max. 600V max in building wire and 1,000V inside a sign or fixture. Insulation material is translucent nylon. Nylon insulation is permanently attached to the metal connector insert. Insert is annealed copper with tin-plated finish



Connector Set Screws



Ideal for applications where vibration is a problem.



Volt	AWG	Min	Max	Part No.
300V	22 – 16	1 # 20 w/ 1 # 22	2 # 14 w/ 1 # 16	ESSC16
600V	22 – 14	1 # 14 w/ 1 # 20	3 # 14 w/ 2 # 18	ESSC14
600V	20 – 10	1 # 16 w/ 3 # 18	2 # 10 w/ 1 # 12	ESSC10

AWG Combination Range	Part No.
22 – 14 AWG	5A115
22 – 12 AWG	5B115
16 – 10 AWG	5B653
10 – 8 AWG	5C653



Scotchlok® Self-Stripping Connectors



Part No: SL10T
Designed for quick tap, in-line and pigtail connections on 10–12 AWG heavy-duty vehicle wiring. U.L. Listed†† for tap splices up to 600V.



Part No: SL14N
The same as SL14T but without a wire stop—making an in-line splice connection possible on either side. 18–14 AWG. CE Certified .



Part No: SL14S
A silicone-filled connector that insulates and provides a moisture resistant seal for the connection. U.L. Listed††. 18–16 AWG.



Part No: SL14T
A self-stripping electrical connector designed for making tap, in-line and pigtail electrical connections to 18–14 AWG automotive/trailer wiring. U.L. Listed††.



Part No: SL14A
A self-stripping electrical connector designed to make a 22–18 AWG wire tap off of an 18–14 AWG wire run. CE Certified .



Part No: SL1018
This connector is the same as our SL14A except that it is designed to make an 18–14 AWG wire tap off of a 1 –10 AWG wire run. U.L. Listed and CSA Certified††



Part No: SL14
A self-stripping female tap connector designed for use on 18–14 AWG wire. Allows making in-line taps which can be disconnected when using a mating .250 (1/4") male Kwik-On. U.L. Listed and CSA Certified†



Part No: SL22
This tap connector is the same as our SL14 except that it is designed for 22–18 AWG wire. U.L. Listed and CSA Certified†



Part No: SL12
This connector is the same as our SL14 except that it is designed for 12 AWG wire. U.L. Listed and CSA Certified†

Also tested in accordance with U.L. standard for portable electric lamps, U.L. 153, section 15 when housed within the body of the lamp.

† U.L. listed 70512 and/or CSA certified Ir15503

†† U.L. listed 23438 and/or CSA certified Ir15503



Scotchlok® Self-Stripping Connectors

**Part No: SL314**

A self-stripping connector designed for making two (2) to three (3) wire tap, in-line and pigtail splices off of 22–14 AWG wire. This unique connector is filled with a silicone sealant to protect electrical contacts against corrosion in damp environments (for low voltage applications of 30V or less). U.L. Listed and CSA Certified††

**Part No: UR**

Two (2) or three (3) silicone filled wire connector designed for splicing or tapping into load coils normally used in communication equipment, alarm systems and thermostats. This connector accepts 19 to 26 AWG solid copper wire. Max. insulation O.D. of .066".

**Part No: UY**

Two (2) silicone filled wire connector designed for straight splicing applications normally used in communication equipment, alarm systems and thermostats. Accepts two (2) solid copper conductor combinations of 22 to 26 AWG. Max. insulation O.D. of .060".

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**Part No: SL14BC**

A self-stripping female connector designed for quick electrical connections on pull-behind vehicles. It extends 14, 16 and 18 AWG automotive wiring to towed units using a standard .156" dia. male bullet connector. TT1 fits terminal.

**Part No: TT1**

Designed to be used with SL14BC. The extra length of nylon insulation allows you to better grip the terminal when removing it from the SL14BC 16–14 GA.

Also tested in accordance with U.L. standard for portable electric lamps, U.L. 153, section 15 when housed within the body of the lamp.

† U.L. listed 70512 and/or CSA certified I15503

†† U.L. listed 23438 and/or CSA certified I15503





Plugs & Connectors

Hospital Grade CC6269HG and CC6266HG

Cap and plug designed for heavy use, hospital applications such as extension cords and electrical/electronic medical apparatus. Constructed of nylon/Lexan with "back-wired" dead front. Neoprene gasket seals cord opening. Accepts cords from .300" to .656" diameter. Meets NEMA WD1-1983. U.L. verified Federal Spec. WC596-F. 15 amp, 125V rating.



CC6269HG

CC6266HG

Right Angle Hospital Grade CC8215RAHG

These "green dot" devices have been rigorously tested for grounding reliability, assembly integrity, strength and durability. All devices conform to UL Standards for hospital equipment #498 and #544 and meet or exceed Hospital Grade UL tests. Including, Abrupt plug removal (parallel to wall) test, Ground pin retention tests, Fault current tests, Terminal strength test, Face impact test, Ground contact temperature test, Ground resistance test, Assembly security test, Mold stress relief test, Crush test, Cord grip strain relief tests, Static cord pull test, Rotary cord pull test.



Connect Glow Hospital Grade CC8215HG

Users of ConnectGlow devices know immediately if a circuit is energized because the neon bulb is energized, rather than having to perform time-consuming circuit testing. You can easily see the circuit status and determine whether there is a problem with the circuit or with the apparatus that is being connected. This is particularly helpful in applications where it is difficult to get to the connection point, such as drop cords or extension cords, or where users might not be proficient in circuit testing. Another function is for monitoring connection status. With ConnectGlow devices, you can visually monitor a connection to assure it is maintained. These "green dot" devices have been rigorously tested for grounding reliability, assembly integrity, strength and durability. All devices conform to UL Standards for hospital equipment #498 and #544 and meet or exceed Hospital Grade UL tests. Bright neon bulb with full 360 deg visibility Mag-Vu window magnifies bulb and terminal for easy inspection



799E and 579E

Heavy-duty grounded, armor-clad cap and plug. U.L. listed and OSHA approved for uses in construction, plant maintenance and industrial applications around heavy equipment. 15 amp, 125V rating.



799E



579E



Plugs & Connectors

Plugs & Connectors, General Application

High quality plug and connector for general applications on extension cords and electrical equipment where grounding is required. Constructed of shock-absorbent Nylon-Tough, exclusive PermaLock™ terminal tightening system. Accepts cords from .300" to .655" diameter. UL Listed File E111198, CSA Certified File LR81290. Features include Bevel housing prevents snagging nearby equipment, Dust seals keep foreign materials from terminals, Internal cord clamp limits wear and prevents cord from loosening, Redundant color-coded terminal markings add to wiring ease and safety, Terminal screws are installed in open position to speed assembly, Wire entry holes are located close together to ease insertion of wires Spacious housings for faster assembly, easy clamping to cable and convenient wire stripping, Speed style screws for faster assembly

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Description	Part No.
15A 125V Standard Connector NEMA 5-15R	CC4887
15A 125V Standard Plug NEMA 5-15P	CC4867
15A 250V Standard Connector NEMA 6-15R	CC5669
15A 250V Standard Plug NEMA 6-15P	CC5666
20A 125V Standard Connector NEMA 5-20R	CC5369
20A 125V Standard Plug NEMA 5-20P	CC5366
20A 250V Standard Connector NEMA 6-20R	CC5469
20A 250V Standard Plug NEMA 6-20P	CC5466
20A 250V Standard NEMA Locking Connector L6-20R	CC206C
20A 250V Standard NEMA Locking Plug L6-20P	CC206P
30A 125/250V Locking Connector NEMA L14-30R	CC3014C
30A 125/250V Locking Plug NEMA L14-30P	CC3014P
30A 250V Locking Connector NEMA L6-30R	CC306C
30A 250V Locking Plug NEMA L6-30P	CC306P



CC4887

CC4867



CC5669

CC5666



CC5369

CC5366



CC5469

CC5466

CC206C

CC206P



CC3014C

CC3014P

CC306C

CC306P

H.D. 3 Phase Plugs & Connectors

High quality plug and connector for 3 Phase applications on extension cords and electrical equipment where grounding is required. Constructed of shock-absorbent Nylon-Tough, exclusive PermaLock™ terminal tightening system. Accepts cords from .300" to .655" diameter. UL Listed File E111198, CSA Certified File LR81290. Features include Bevel housing prevents snagging nearby equipment, Dust seals keep foreign materials from terminals, Internal cord clamp limits wear and prevents cord from loosening, Redundant color-coded terminal markings add to wiring ease and safety, Terminal screws are installed in open position to speed assembly, Wire entry holes are located close together to ease insertion of wires Spacious housings for faster assembly, easy clamping to cable and convenient wire stripping, Speed style screws for faster assembly.

Description	Part No.
20 AMP 3 Phase-250V Locking Connector NEMA L15-20R	CC2015C
20 AMP 3 Phase-250V Locking Plug NEMA L15-20P	CC2015P
30 AMP 3 Phase-250V Locking Connector NEMA L15-30R	CC3015C
30 AMP 3 Phase-250V Locking Plug NEMA L15-30P	CC3015P



CC2015C

CC2015P

CC3015C

CC3015P



Marinco Marine Plugs & Connectors

15, 20 & 30 Amp Corrosion resistant plugs & connectors: Front & rear housing. Nylon-tough and resistant to a wide range of chemicals. UL-listed for 125°C continuous use. UL 94V-2 Flammability Index. Terminals & contacts – 15 & 20 Amp Str. Blade: exclusive Perma-Lock™ lug-type terminals with #8 solid brass, nickel-plated terminal screws; 20 & 30 Amp Locking: clamp-style terminals with #10 solid brass, nickel-plated terminal screws. Electrical: Dielectric Withstand Voltage: >3,000V. Heat Rise: Maximum 30°C after 100 cycles at 150% or rated current. Current Interrupting: Yes.

Description	Part No.
Marine Caps 15 AMP, 125V, NEMA 5-15R. Straight - Female.	CCM15125C
Marine Plug 15 AMP, 125V, NEMA 5-15P. Straight - Male.	CCM15125P
Marine Caps 20 AMP, 125V, NEMA L5-20R. Twist lock - Female.	CCM20125C
Marine Caps 20 AMP, 125V, NEMA L5-20R. Twist lock - Male	CCM20125P
Marine Caps 30 AMP, 125V, NEMA L5-30R. Twist lock - Female.	CCM30125C
Marine Plug 30 AMP, 125V, NEMA L5-30P. Twist lock - Male.	CCM30125P



CCM15125C



CCM15125P



CCM20125C



CCM20125P



CCM30125C



CCM30125P





Pin & Sockets



Scan to watch a Deutsch Connectors demo video on your phone.

Deutsch DT Series



Receptacle for pins Plug for sockets



Enhanced seals

Plug for sockets Receptacle for pins

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DT Series Plugs & Receptacles		
DT Series uses size 16 contacts only.		
Pins/Sockets	Plug Part No.	Receptacle Part No.
2	DDT062S	DDT042P
3	DDT063S	DDT043P
4	DDT064S	DDT044P
6	DDT066S	DDT046P
8	DDT068SA	DDT048PA
12	DDT0612SA	DDT0412PA

Pins and sockets on next page.

DT Enhanced Series Plugs & Receptacles		
DT Series uses size 16 contacts only.		
Pins/Sockets	Plug Part No.	Receptacle Part No.
2	DDT062SP012	DDT042PE004
3	DDT063SP012	DDT043PE004
4	DDT064SP012	DDT044PE004
6	DDT066SP012	DDT046PE004
8	DDT0608SAEP07	DDT048PAE004
12	DDT0612SAEP07	DDT0412PAE004

Pins and sockets on next page.

DT Series Protective Boots

Boots provide a professional looking finishing touch for DEUTSCH DT family connectors. Made of durable plastisol, these slip-on boots are not only aesthetically appealing, but also provide increased protection from dirt, paint overspray and pressure washing. The plastisol boots are rated from -20° F to +212° F and offer a slip-on design making installation quick and easy.



DT Series Protective Boots			
No. of Contacts	Color	Plug Side Part No.	Receptacle Side Part No.
2	Gray	DT2SBT	DT2PBT
2	Black	DT2SBTBK	DT2PBTBK
3	Gray	DT3SBT	DT3PBT
3	Black	DT3SBTBK	DT3PBTBK
4	Gray	DT4SBT	DT4PBT
4	Black	DT4SBTBK	DT4PBTBK
6	Gray	DT6SBT	DT6PBT
6	Black	DT6SBTBK	DT6PBTBK
8	Gray	DT8SBT	DT8PBT
8	Black	DTS8BTBK	DT8PBTBK

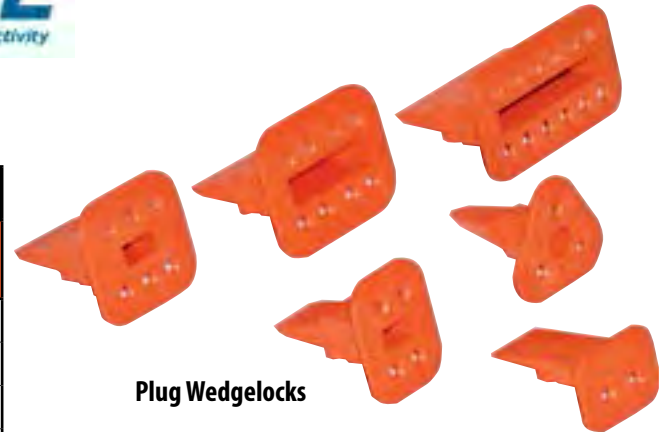


Deutsch DT Series



DT Series Standard & Enhanced are rated at 13 AMPS.

DT Series Wedgelocks			
Position	Receptacle Wedgelock No.	Enhanced Plug Wedgelock No.	Plug Wedgelock No.
2	DW2P	DW2SP012	DW2S
3	DW3P	DW3SP012	DW3S
4	DW4P	DW4SP012	DW4S
6	DW6P	DW6SP012	DW6S
8	DW8P	DW8SP012	DW8S
12	DW12P	DW12SP012	DW12S



Plug Wedgelocks



Receptacle Wedgelocks

Removal Tool for DT Series
Part No: DDTRT1



DT Contacts & Sealing Plugs

- DT Series uses size 16 contacts only
- Photos shown are actual size








D114017



D04132042005

Size	Sealing Plugs No.
12-16	D114017
18-20	D04132042005

Tin Plated			
Size	AWG	Pin No.	Socket No.
16	14-16	D046021516141 	D046220916141 
16	16-18	D046020216141 	D046220116141 

Gold Plated			
Size	AWG	Enhanced (Gold) Pin No.	Enhanced (Gold) Socket No.
16	14	D04602151631 	D04622091631 
16	20-16	D04602021631 	D04622011631 





Pin & Sockets

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Deutsch DT Series J-1939 Connectors

Deutsch J1939/11 connectors are rugged field proven DT 3 pin connectors designed to meet the SAE requirements for 3-wire CAN applications linking ECUs for serial data communications. The DT 3 way connectors accommodate the CAN_HI, CAN_LO and shield wires with a variety of options including "Y" receptacles, connectors with mounting flange, keyed wedgelocks to prevent mis-mating



Plug
Part No: DDT063SP032



Receptacle
Part No: DDT043PE008



Receptacle
Part No: DW3P



Receptacle Wedgelock
Part No: DW3SP012

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DT Series J-1939 Option, ECU I, A Side

Properties	No. of Contacts	Type	Part No.	Wedgelock No.
Shrink Boot End	3	Plug	DDT063SP032	DW3SP012
		Receptacle	DDT043PE008	DW3P



Receptacle
Part No: DDT043PLE08

DT Series J-1939 Option, ECU I & ECU II + I, A Side

Properties	No. of Contacts	Type	Part No.	Wedgelock No.
Shrink Boot End	3	Plug	DDT063SP032	DW3SP012
Square Flange Shrink Boot End		Receptacle	DDT043PLE08	DW3P



Plug Wedgelock
Part No: DW3S1939



Receptacle Wedgelock
Part No: DW3P1939

DT Series J-1939 Option, ECU, B Side

Properties	No. of Contacts	Type	Part No.	Wedgelock No.
Shrink Boot End	3	Plug	DDT063SP032	DW3S1939P012*
Square Flange Shrink Boot End		Receptacle	DDT043PLE08	DW3P1939

*When using non-enhanced DT connector, use DW3S1939 Wedgelock.

Above connectors use size 16 contacts.

DT Series J-1939 Option Inter-Connector

Properties	No. of Contacts	Type	Part No.	Wedgelock No.
Y Connection	3	Receptacle	DDT043PP007	Not Used



Inter-Connector
Part No: DDT043PP007



Deutsch DTM Series



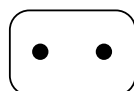
Item Description	No. of Positions	Deutsch	Hi-Line
		Part No.	Part No.
Receptacle	2	DTM04-2P	DEU0009
	3	DTM04-3P	DEU0010
	4	DTM04-4P	DEU0011
	6	DTM04-6P	DEU0012
	8	DTM04-08P	DEU0013
	12	DTM04-12P	DEU0014
Wedglock for receptacles	2	WM-2P	DEU0015
	3	WM-3P	DEU0016
	4	WM-4P	DEU0017
	6	WM-6P	DEU0018
	8	WM-8P	DEU0019
	12	WM-12P	DEU0020
Solid pin terminal. Contact size 20. For use in receptacles.	24-20 AWG	0460-202-20141	D046020220141
	18-16 AWG	0460-010-20141	D20P1816
Plug	2	DTM06-2S	DEU0021
	3	DTM06-3S	DEU0022
	4	DTM06-4S	DEU0023
	6	DTM06-6S	DEU0024
	8	DTM06-08S	DEU0025
	12	DTM06-12S	DEU0026
Wedglock for plugs	2	WM-2S	DEU0027
	3	WM-3S	DEU0028
	4	WM-4S	DEU0029
	6	WM-6S	DEU0030
	8	WM-8S	DEU0031
	12	WM-12S	DEU0032
Solid socket terminal. Contact size 20. For use in plugs.	24-20 AWG	0462-201-20141	D046220120141
	18-16 AWG	0462-005-20141	D20S1816
Sealing plug. Contact size 20, red.	-	0413-204-2005	D04132042005



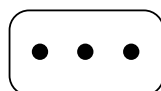
DTM Series

- Similar to the DT series these connectors are for smaller gauge wire (24-20 AWG)
- Uses contact size 20 pins & sockets
- Current capability: 7.5 amps
- Each housing uses a wedglock to assure contact alignment & retention (order separately)
- Contacts are nickel-plated copper
- Housings & wedglocks are thermoplastic (-67°F to 257°F)

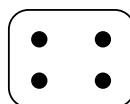
DTM Series Configurations



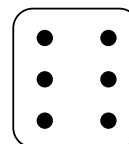
DEU0021
2 size 20



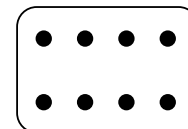
DEU0022
3 size 20



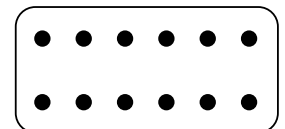
DEU0023
4 size 20



DEU0024
6 size 20



DEU0025
8 size 20
A, B, C, D



DEU0026
12 size 20
A, B, C, D



Pin & Sockets



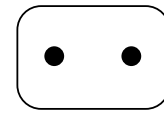
Scan to watch a Deutsch Crimping Tool demo video on your phone.

Deutsch DTP Series

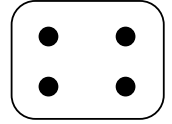
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DTP Series Configurations



DEU0037
2 size 12



DEU0038
4 size 12

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Item Description	No. of Positions	Deutsch	Hi-Line
		Part No.	Part No.
Receptacle	2	DTP04-2P	DEU0033
	4	DTP04-4P	DEU0034
Wedgeloek for receptacles	2	WP-2P	DEU0035
	4	WP-4P	DEU0036
Solid Pin Terminal. Contact size 12, 14-12 AWG use in receptacles.	—	046-204-12141	D046020412141
Plug	2	DTP06-2S	DEU0037
	4	DTP06-4S	DEU0038
Wedgeloek for plugs	2	WP-2S	DEU0039
	4	WP-4S	DEU0040
Solid Socket Terminal. Contact size 12, 14-12 AWG use in plugs.	—	0462-203-12141	D046220312141
Sealing plug. Contact size 16-12, white.	—	114017	D114017

DTP Series

- Similar to the DT/DTM series these connectors are for power applications up to 25 AMPS continuous
- They use contact size 12 pins & sockets & 14-12 GA wire
- Each housing uses a wedgeloek to assure contact alignment & retention (order separately)
- Contacts are nickel-plated copper
- Housings & wedgeloeks are thermoplastic (-67°F to 257°F)





DEUTSCH Contact Removal Tools			
Contact Size	AWG	Color	Part No.
20	24-20	Red	D04112402005
16	20-16	Light Blue	D04113101605
16	16-14	Green	D04112911405
12	14-12	Yellow	D114010
8	10-8	Green	DRT8
4	6	White	DEU0006



Crimp Sleeve Reducer Seal

Part No: DEU0008

- Provides proper wire sealing when using 8-10 AWG wire with size 4 contacts
- For use with Size 4 DEU0003 Jiffy Split
- Deutsch #0410-241-0406



Crimp Sleeve Reducer

Part No: DEU0007

- Step-down contacts size 4 (6 ga) to 8-10 ga
- For use with Size 4 DEU0003 Jiffy Split
- Deutsch #0421-203-04141

Crimping Tools for Deutsch Contacts	
Description	Part No.
26-12 GA Professional 8 indent (2 rows of 4)	DHDT4800
20-12 GA Economy 4 indent	PA1461
10-6 GA Professional	DHDT0408

DEUTSCH Common Contacts - Nickle Plated			
Size	AWG	Pin No.	Socket No.
20	24-20	D046020220141 	D046220120141
20	18-16	D20P1816 	D20S1816
16	20-16	D046020216141 	D046220116141
16	14	D046021516141 	D046220916141
12	14-12	D046020412141 	D046220312141
8	10-8	D8P108 	D8S108
4	6	DEU0005 	DEU0004

DEUTSCH Common Contacts - Gold Plated			
Size	AWG	Enhanced (Gold) Pin No.	Enhanced (Gold) Socket No.
16	20-16	D04602021631 	D04622011631
16	14	D04602151631 	D04622091631
12	14-12	D04602201231 	D04622101231

PA1461



DHDT4800





Pin & Sockets

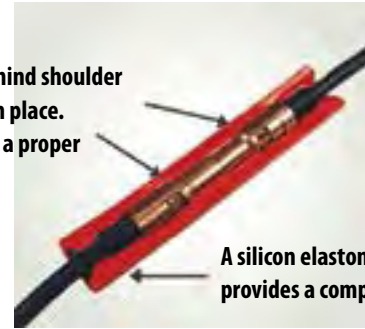
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Jiffy Splices

Deutsch Jiffy Splices are a unique, field serviceable alternative to permanent butt splices. They are made from the same silicone elastomer used in Deutsch seals & grommets. The Jiffy body houses a contact retention system that secures a mated pair of contacts (pin & socket) in a compact environmentally sealed unit. Jiffy splices are easy to install and can be uninstalled with standard Deutsch contact removal tools.

Retention fingers snap behind shoulder of contacts locking them in place. An audible click will signal a proper insertion. (cut away view)



A silicon elastomer covering provides a completely sealed unit.



Jiffy Splices accept one pin and one socket. Moisture Resistant & Corrosion Resistant to MIL-STD 1344

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Contact current rating

#16 contacts 13A continuous

#12 contacts 25A continuous

#4 contacts 100A continuous

Jiffy Splices					
AWG	Contact Size	O.D. of Splice (min.)	Overall Length	Deutsch	Hi-Line
				Part No.	Part No.
20-14	16	0.385	2.465"	JS-16-00	DEU0001
14-12	12	.5"	2.5"	JS-112-00	DEU0002
6	4	.765"	3.437"	JS-04-00	DEU0003





Deutsch HD30 Series



Lock Washer
Part No: D112264
Shell Size: 24



Panel Nut
Part No: D11226390
Shell Size: 24



Receptacle with Back-Shell and Cable Clamp
Part No: DHD21P059



Plug
Part No: DHD362419SN



Receptacle
Part No: DHD342419PN



Plug with Back-Shell and Cable Clamp
Part No: DHD21S059

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HD30 Series Plugs & Receptacles						
Use DT pins and sockets.						
No. of contacts	Contact Size	Shell Size	Plug No.	Plug No. with Backshell & Cable Clamp	Receptacle No.	Receptacle No. with Backshell & Cable Clamp
19	6 Size 12 & 13 Size 16	24	DHD362419SN	DHD19S059	DHD342419PN	DHD19P059
21	4 Size 12 & 17 Size 16		DHD362421SN	DHD21S059	DHD342421PN	DHD21P059
23	23 Size 16		DHD362423SN	DHD23S059	DHD342423PN	DHD23P059

Protective caps are available for both plug and receptacle halves of the connectors. The metal caps, for use with the HD30 Series, come with a mounting chain and are used to protect the connector while not mated.



Plug Dust Cap
Part No: DHDC24P
Shell Size: 24



Receptacle Dust Cap
Part No: DHDC24R
Shell Size: 24



Pin & Sockets

MADE IN USA



Deutsch DTHD Connectors

DTHD connectors are single terminal connectors for heavy duty applications. Easy to install, environmentally sealed and compact in size, they are a simple, field serviceable alternative to a splice. DTHD connectors are available in three sizes, carry 25 to 100 amps and can be mounted or used in-line.

- Accepts contact sizes 4 (100 amps), 8 (60 amps), and 12 (25 amps)
- 6-14 AWG
- 1 cavity arrangement
- In-line or flange mount
- Circular, thermoplastic housing
- Integrated latch for mating



**Plug
DTHD8P**



**Receptacle
DTHD8S**

DTHD Series Plugs & Receptacles			
No. of Contacts	Contact Size	Plug No.	Receptacle No.
1	12	DTHD12P	DTHD12S
1	8	DTHD8P	DTHD8S
1	4	DTHD4P	DTHD4S

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Deutsch HD10 Series Connectors

The HD10 Series is an environmentally sealed, thermoplastic cylindrical connector series and offers arrangements from 3 to 9 cavities. All HD10 connectors are available either in-line or flanged and accept size 16 contacts. The HD10 Series is heavily used for diagnostic connectors and helps reduce assembly issues and maintenance time. These connectors are designed for long service life.

HD10 SERIES PLUGS AND RECEPTACLES				
No. of Contacts	Contact Size	In-Line Plug No.	In-Line Receptacle No.	Square Flange Receptacle No.
3	16	DHD16396S	DHD14396P	N/A
5	16	DHD16516S	DHD14516P	N/A
9	16	DHD16916S	DHD14916P	DHD10916P
9	16	DHD16996S	DHD14996P	N/A



**Plug
DHD16396S**



**Plug
DHD16516S**



**Plug
DHD16916S**



**Plug
DHD16996S**



**Receptacle
DHD14396P**



**Receptacle
DHD14516P**



**Receptacle
DHD14916P**



**Receptacle
DHD14996P**



DELPHI

Metri-Pack Electrical Connection Systems

Metri-Pack is a family of electrical connection systems which utilizes internationally standardized male blade sizes, allowing for flexibility in design.

Features:

- Connector Position Assurance (CPA)
- Terminal Position Assurance (TPA)
- Electrical versatility from high current to low energy circuits
- Excellent resistance to temperature, chemicals and abrasion
- Strength and stability of terminals assures correct alignment
- -40°C to 125°C temperature range



150 Series

Current Max: 14 amps

Blade Width: 1.5 mm



280 Series

Current Max: 30 amps

Blade Width: 2.8 mm



480 Series

Current Max: 42 amps

Blade Width: 4.8 mm



630 Series

Current Max: 46 amps

Blade Width: 6.3 mm



To determine series, measure the width of the blade on the male terminal (mm).





Pin & Sockets

Metri-Pack Electrical Connection Systems



Connector Housings					
Description	Male Pin Housing	Male TPA	Female/Socket Housing	Female TPA	CPA
150 Series					
2 Position	9H2MMP150	9TPA2MP150	9H2FMP150	9TPA2MP150	N/A
2 Position	Device, Motor or Sensor		DPH1054**	9TPA2MP150	N/A
2 Position	DPH1056*	9TPA2MP150	DPH1055*	9TPA2MP150	N/A
3 Position	9H3MMP150	9TPA3MP150	9H3FMP150	9TPA3MP150	9CPA
4 Position	9H4MMP150	9TPA4MP150	9H4FMP150	9TPA4MP150	9CPA
6 Position	9H6MMP150	9TPA6MP150	9H6FMP150	9TPA6MP150	9CPA
150.2 Series Pull to Seat					
2 Position	DEVICE, MOTOR OR SENSOR		DPH1029	Not Used	N/A
2 Position	DEVICE, MOTOR OR SENSOR		DPH1045*	Not Used	N/A
3 Position	DEVICE, MOTOR OR SENSOR		DPH1030	Not Used	N/A
3 Position	DEVICE, MOTOR OR SENSOR		DPH1046*	Not Used	N/A
4 Position	DEVICE, MOTOR OR SENSOR		DPH1031	Not Used	N/A
6 Position	DEVICE, MOTOR OR SENSOR		DPH1032	Not Used	N/A
150 Series Special					
3 Position	DEVICE, MOTOR OR SENSOR		DPH1047	Not Used	N/A
280 Series					
1 Position	9H1MMP280	9TPA1MP280	9H1FMP280	9TPA1MP280	N/A
2 Position	9H2MMP280	9TPA2MP280	9H2FMP280	9TPA2MP280	N/A
2 Position	9005 Bulb		DPH1042	DPH1044	N/A
2 Position	9006 Bulb		DPH1043	DPH1044	N/A
2 Position	880, 890, 892, 895 Bulb		DPH1057	DPH1058	N/A
3 Position	9H3MMP280	9TPA3MMP280	9H3FMP280	9TPA3FMP280	9CPA
3 Position	9004 Bulb		DPH1040	DPH1041	N/A
4 Position	9H4MMP280	9TPA4MMP280	9H4FMP280	9TPA4FMP280	9CPA
5 Position	9H5MMP280	9TPA5MMP280	9H5FMP280	9TPA5FMP280	9CPA
5 Pos. 4 Usable	Truck Light Assembly		DPH1033	9TPA5FMP280	N/A
480 Series					
2 Position	9H2MMP480	9TPA2MP480	9H2FMP480	9TPA2MP480	9CPA
3 Position	9H3MMP480	9TPA3MP480	9H3FMP480	9TPA3MP480	N/A
630 Series					
3 Position	9H3MMP630	9TPA3MP630	9H3FMP630	9TPA3MP630	9CPA
630 Series Pull to Seat					
2 Position	FT (ATC,ATO) Fuse 12 AWG		DPH1035	Not Used	DPH1037***
2 Position	FT (ATC,ATO) Fuse 16-14 AWG		DPH1036	Not Used	DPH1037***
5 Position	5 Terminal Sealed Relay		DPH1034	Not Used	N/A

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Female Housing
DPH1045



Female Housing
DPH1055



Female Housing
DPH1047



Male Pin Housing
9H3MMP280



Female Housing
DPH1043



Male TPA
9TPA3MMP280



Female Housing
DPH1040



Female Housing
9H3FMP280



Female Housing
DPH1033



Female TPA
9TPA3FMP280



Female Housing
DPH1036



CPA
9CPA

* Grey in Color ** Red in Color *** Fuse Cover



Metri-Pack Electrical Connection Systems



Pins and Sockets		
Description	AWG	Part No.
150 Series		
Female Socket 1.5 mm blade width	22-20	92022FM150
Female Socket 1.5 mm blade width	18-16	91618FM150
Male Pin 1.5 mm blade width	18-16	91618MM150
150.2 Series Pull to Seat		
Female Socket Pull to seat 1.5 mm blade width	22-20	92022FM1502
Female Socket Pull to seat 1.5 mm blade width	18-16	91618FM1502
150 Series Special use with DPH1047		
Female Socket 1.5 mm blade width	18-16	DPH1048
280 Series		
Female Socket 2.8 mm blade width	18-16	91618FM280
Male Pin 2.8 mm blade width	18-16	91618MM280
Female Socket 2.8 mm blade width	14-12	91214FM280
Male Pin 2.8 mm blade width	14-12	91214MM280
480 Series		
Female Socket 4.8 mm blade width	16-14	91614FM480
Male Pin 4.8 mm blade width	16-14	91614MM480
Female Socket 4.8 mm blade width	12-10	91210FM480
Male Pin 4.8 mm blade width	12	912MM480
Male Pin 4.8 mm blade width	10	910MM480
630 Series		
Female Socket 6.3 mm blade width	16-14	91614FM630
Male Pin 6.3 mm blade width	16-14	91614MM630
Female Socket 6.3 mm blade width	12-10	91210FM630
Male Pin 6.3 mm blade width	12	912MM630
Male Pin 6.3 mm blade width	10	910MM630
630 Series Pull to Seat, Use with DPH1034,1035,1036		
Female Socket 6.3 mm blade width	16-14	91614FM6302
Female Socket 6.3 mm blade width	12	912FM6302

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91618FM150

91618MM150



92022FM1502

91618FM1502



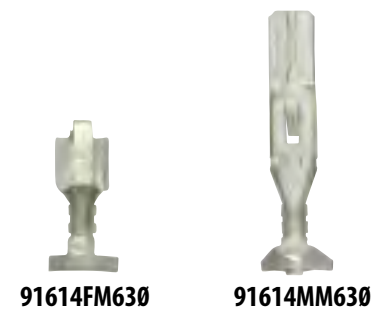
91618FM280

91618MM280



91614FM480

91614MM480



91614FM630

91614MM630

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Pin & Sockets

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9SDRD150

Seals			
AWG	Series	Color	Part No.
22-20	150	Dark Red	9SDRD150
18-16	150	White	9SWE150
20-18	280	Green	9SGN
16-14	280	Gray	9SGY
12-10	280	Blue	9SBE
16-14	480	Red	9SRD480
12	480	Purple	9SPE480
10	480	Orange	9SOE480
16-14	630	Lt. Gray	9SLGY630
12-10	630	Blue	9SBE630



9PG

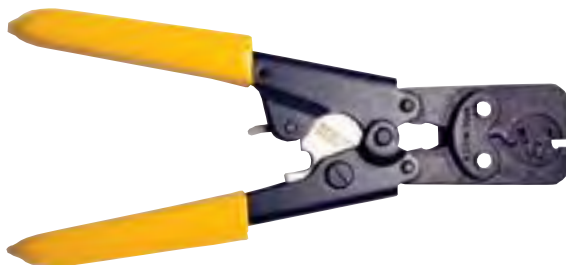
Cavity Plugs		
Series	Color	Part No.
150	Dark Red	9PDRD150
280	Green	9PG

Micro-Pack: Pins and Sockets		
Description	AWG	Part No.
100 Series		
Female Socket 1.0 mm blade width	22-20	92022FM100
Male Pin 1.0 mm blade width	22-20	92022MM100
Female Socket 1.0 mm blade width	18-16	91618FM100

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Crimper
Part No: RT18
AWG: 22-14



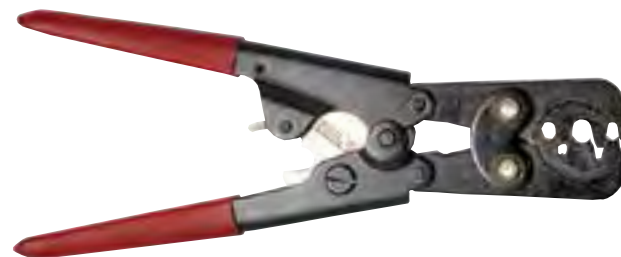
Ratcheting Crimper
Part No: RT17
AWG: 12-10



Female Socket
91618FM100



Male Pin
92022MM100



Ratcheting Crimper
Part No: RT13
AWG: 20-14



Extraction Tool
Part No: 9ETMP



Delphi GT Connectors

- Low connector engage forces
- Electrical performance meets USCAR standards.
- Tangless terminals with stamped serrations
- Integrated Connector Position Assurance (CPA)



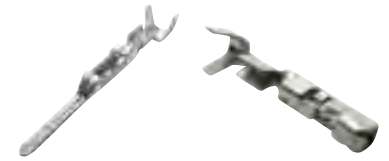
DELPHI



Male



Female



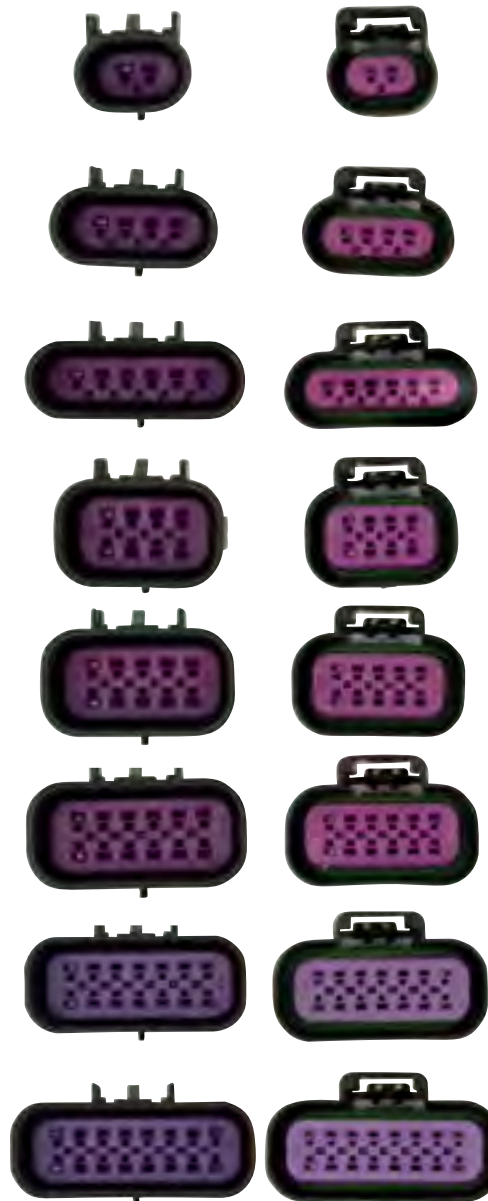
Delphi GT150 Contacts, Sealed

AWG	Gender	Part No.
22-20	Male	DPH1050
	Female	DPH1049
18-16	Male	DPH1015
	Female	DPH1023

Delphi GT150 Housings, Sealed		
Positions	Gender	Part No.
2	Male	9GT2M150
	Female	9GT2F150
4	Male	9GT4M150
	Female	9GT4F150
6	Male	9GT6M150
	Female	9GT6F150
8	Male	9GT8M150
	Female	9GT8F150
10	Male	9GT10M150
	Female	9GT10F150
12	Male	9GT12M150
	Female	9GT12F150
14	Male	9GT14M150
	Female	9GT14F150
16	Male	9GT16M150
	Female	9GT16F150

Male

Female



Delphi GT150 Wire Seals

AWG	Color	Part No.
22-20	White	9GTSWE150
18-16	Blue	9GTSBE150



Cavity Plug
Part No: 9GTP150



Crimper
Part No: RT18
AWG: 22-14



Ratcheting Crimper
Part No: RT13
AWG: 20-14



Extraction Tool
Part No: 9ETMP



Pin & Sockets

Weather Pack Electrical Systems

Delphi's Weather Pack system is an environmentally sealed electrical connection system designed to withstand exposure to extreme temperatures, moisture, and harsh engine compartment fluids and chemical. It is extensively used in tough applications including construction, off road, and farm equipment.

Weather Pack connectors are made of nylon material for the best combination of temperature resistance and flexibility. They have been tested to withstand temperatures of -40°F to 257°F.

Male terminals, female terminals and cable seals are secured into connector bodies with a hinge lock assembly.

The plug or tower half connector body comes with a self-lubricating silicone seal to reduce the engagement assembly force. Cable seals must be used with mating terminals to create a weather-tight connection.

MADE IN USA

DELPHI



**Shroud
9H2MW**

**Tower
9H2FW**

Housings		
No. of Positions	Shroud Part No.	Tower Part No.
1	9H1MW	9H1FW
2	9H2MW	9H2FW
3	9H3MW	9H3FW
4	9H4MW	9H4FW
4 Stacked	9H4MWS	9H4FWS
6	9H6MW	9H6FW
22	9H22MW	9H22FW

FOR PINS

FOR SOCKETS



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DELPHI

Weather Pack



Pin 922MW



Socket 922FW

Sockets & Pins		
AWG	Part No.	
	Socket	Pin
22	922FW	922MW
18-20	91820FW	91820MW
14-16	91416FW	91416MW
12	912FW	912MW



Seal 9SRD



Plug 9PG

Seals		
AWG	Color	Part No.
22	Red	9SRD
18-20	Green	9SGN
14-16	Gray	9SGY
12	Blue	9SBE
Cavity Plug	Green	9PG



Extraction Tool
Part No: 9ET



Ratcheting Crimper
Part No: RT4254
AWG: 20-14



Ratcheting Crimper
Part No: RT17
AWG: 12



Crimper
Part No: RT18
AWG: 22-14



Pin & Sockets

Ampseal 16

MADE IN USA



- Bonded silicon gaskets
- Withstands harsh, wet conditions
- Four keyed and color-coded styles
- For auto, truck, marine and rail applications



Plug
AP7764271

Cap
AP7764281

Ampseal 16, Housings								
No. of Contacts	Plug Part No.				Cap Part No.			
	Key A Red	Key B Gray	Key C Yellow	Key D Green	Key A Red	Key B Gray	Key C Yellow	Key D Green
2	AP7764271	AP7764272	AP7764273	AP7764274	AP7764281	AP7764282	AP7764283	AP7764284
3	AP7764291	AP7764292	AP7764293	AP7764294	AP7764301	AP7764302	AP7764303	AP7764304
4	AP7764871	AP7764872	AP7764873	AP7764874	AP7764881	AP7764882	AP7764883	AP7764884
6	AP7764331	AP7764332	AP7764333	-	AP7764341	AP7764342	AP7764343	-
8	AP7764941	AP7764942	AP7764943	AP7764944	AP7764951	AP7764952	AP7764953	AP7764954
12	AP7764371	AP7764372	AP7764373	AP7764374	AP7764381	AP7764382	AP7764383	AP7764384

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Plug
AP7765231

Cap
AP7764281

NOTE:
Plugs use socket contacts.
Caps use pin contacts.

Ampseal 16, Housings, Reduced Diameter Wire Seal						
No. of Contacts	Plug Part No.			Cap Part No.		
	Key A Red	Key B Gray	Key C Yellow	Key A Red	Key B Gray	Key C Yellow
2	AP7765221	AP7765222	AP7765223	AP7765341	AP7765342	AP7765343
3	AP7765231	AP7765232	AP7765233	AP7765351	AP7765352	AP7765353
4	AP7765241	AP7765242	AP7765243	AP7765361	AP7765362	AP7765363
6	AP7765311	AP7765312	AP7765313	AP7765371	AP7765372	AP7765373
8	AP7765321	AP7765322	AP7765323	AP7765381	AP7765382	AP7765383
12	AP7765331	AP7765332	AP7765333	AP7765391	AP7765392	AP7765393

Ampseal 16, Housings, Reverse Mount		
No. of Contacts	Cap Part No.	
	Key A Red	Key B Gray
2	AP17176721	-
3	AP17176731	-
4	AP17176741	-
6	AP17176751	AP17176752
12	AP17176771	-



Cap
AP17176721



Ampseal 16, Contacts			
AWG	Finish	Pin No.	Socket No.
20-18	Nickle	AP19245793	AP19245802
18-14	Nickle	AP7763002	AP7762992
18-14	Gold	AP7763001	AP7762991



Open Barrel Contact Crimper

Part No: 29564

Five cavity, two jaw tool designed to crimp a wide variety of open barrel contacts. Three "F" nests for crimping the conductor portion. Two oval nests for crimping the insulation portion.



Contact Extraction Tool

Part No: AP7764411



AMP SUPERSEAL 1.5



AMP has developed the AMP SUPERSEAL 1.5 Series connectors family to meet the constantly increasing needs and requirements in safety and reliability of the electrical connection field. These connectors fulfill all the requirements prescribed by the various automotive and industrial standards. They are watertight and exceed the requirements prescribed by the IEC 529 and DIN 40050 I.P. 6.7 standards regarding waterproofness.

The AMP SUPERSEAL 1.5 Series connectors are completely interchangeable and can be connected with existing components and with the devices currently used in the automotive industry (sensors, oil pressure senders, water temperature monitoring, etc.).

- Sturdy and reliable contacts: their lanceless design eliminates contact tangling during handling operations.
- Double contact spring: mainspring and auxiliary anti-overstress spring.
- Preassembled secondary lock which ensures correct and complete insertion of the contact in the housing and prevents it from slipping out of the connector. The secondary lock cannot be closed if the contact is not correctly inserted in the housing.
- Both plug and receptacle have a collar to fit additional protective caps if required.
- The plug connector is equipped with a device which allows safe and easy fastening to a panel.

Superseal 1.5, Housings		
Cavities	Cap No.	Plug No.
2	AP2821041	AP2820801
3	AP2821051	AP2820871
4	AP2821061	AP2820881



Cap
AP2821051



Plug
AP2820871

NOTE: Plugs use receptacle contacts. Caps use tab contacts.



Tab Contact

AWG: 20-16

Part No: AP2821091



Receptacle Contact

AWG: 20-16

Part No: AP2821101



Wire Seal - Yellow

AWG: 20-18

Part No: AP2819342



Wire Seal - Red

AWG: 18-16

Part No: AP2819343



Cavity Plug

AWG: 22-16

Part No: AP2820811

Note: Contacts are packaged in strips of 100 count.



Crimper

Part No: RT18

AWG: 22-14



Ratcheting Crimp Tool

Part No: AP585833



Contact Extraction Tool

Part No: AP915790071



TPA Extraction Tool

Part No: AP785084



Pin & Sockets

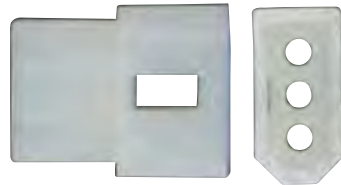
2004 Series .062 Housings

MADE IN USA

molex



**Female Housing
9H3FM6**



**Male Housing
9H3MM6**



Hand Crimping Tool

Part No: HT1921

Description: For .062" dia. series

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Molex .062 Housings (250V)

Description	AMPS Per Circuit	Part No.
Single Circuit Receptacle	5	9H1FM6
Single Circuit Plug	5	9H1MM6
2-Circuit Receptacle	5	9H2FM6
2-Circuit Plug	5	9H2MM6
3-Circuit Receptacle	5	9H3FM6
3-Circuit Plug	5	9H3MM6
4-Circuit Receptacle	5	9H4FM6
4-Circuit Plug	5	9H4MM6
6-Circuit Receptacle	5	9H6FM6
6-Circuit Plug	5	9H6MM6
9-Circuit Receptacle	5	9H9FM6
9-Circuit Plug	5	9H9MM6
12-Circuit Receptacle	5	9H12FM6
12-Circuit Plug	5	9H12MM6
15-Circuit Receptacle	5	9H15FM6
15-Circuit Plug	5	9H15MM6



Ratchet Crimping Tool

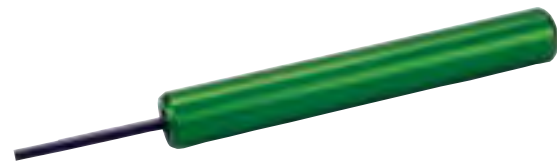
Part No: PRT0008

Description: For .062" dia. series



Terminals .062

Description	AWG	Part No.
Female Socket	18 – 24	91824FM6
Male Pin	18 – 24	91824MM6



Pin Extraction Tool

Part No: 9ETM6

Description: For .062" Molex pin connectors



2163 Series .093 Housings



Female Housing
9H3FM9



Male Housing
9H3MM9



Hand Crimping Tool
Part No: HT1919
Description: For .093" dia. series

Molex .093 Housings (250V)		
Description	AMPS Per Circuit	Part No.
Single Circuit Receptacle	12	9H1FM9
Single Circuit Plug	12	9H1MM9
2-Circuit Receptacle	12	9H2FM9
2-Circuit Plug	12	9H2MM9
3-Circuit Receptacle	12	9H3FM9
3-Circuit Plug	12	9H3MM9
4-Circuit Receptacle	9	9H4FM9
4-Circuit Plug	9	9H4MM9
6-Circuit Receptacle	9	9H6FM9
6-Circuit Plug	9	9H6MM9
9-Circuit Receptacle	9	9H9FM9
9-Circuit Plug	9	9H9MM9
12-Circuit Receptacle	7.5	9H12FM9
12-Circuit Plug	7.5	9H12MM9
15-Circuit Receptacle	7.5	9H15FM9
15-Circuit Plug	7.5	9H15MM9



Ratchet Crimping Tool
Part No: RT0084
Description: For .093" dia. series



Terminals .093		
Description	AWG	Part No.
Female Socket	14 – 20	91420FM9
Male Pin	14 – 20	91420MM9
Female Socket	18 – 22	91822FM9
Male Pin	18 – 22	91822MM9



Pin Extraction Tool
Part No: 9ETM9
Description: For .093" Molex pin connectors

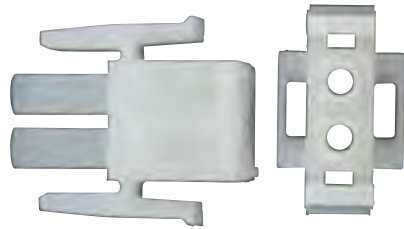


Pin & Sockets

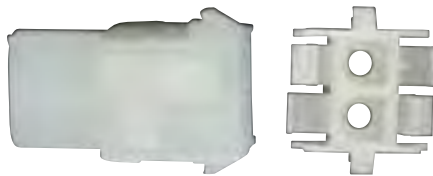
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Universal Mate-N-Lok

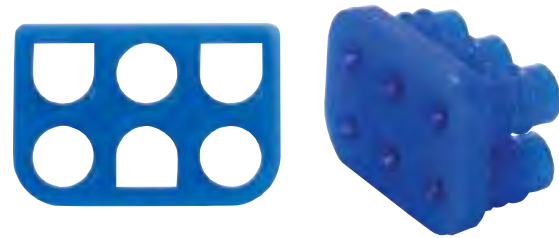
MADE IN USA



Plug for Sockets
AP4806980



Cap for Pins
AP4806990



Seals	
Description	Part No.
Interface Seal – 2P	AP7942691
Interface Seal – 3P	AP7942711
Interface Seal – 4P	AP7942731
Interface Seal – 6P	AP7942751
Wire Seal – 2P	AP7942701
Wire Seal – 3P	AP7942721
Wire Seal – 4P	AP7942741
Wire Seal – 6P	AP7942761

Universal Mate-N-Lok (600V-19A)		
Description	No. of Positions	Part No.
Cap	1	AP7704211
Plug	1	AP3508670
Cap	2	AP4806990
Plug	2	AP4806980
Cap	3	AP4807010
Plug	3	AP4807000
Cap	4	AP4807030
Plug	4	AP4807020
Cap	6	AP4807050
Plug	6	AP4807040
Cap	9	AP4807070
Plug	9	AP4807060
Cap	12	AP4807090
Plug	12	AP4807080
Cap	15	AP4807110
Plug	15	AP4807100



Pins and Sockets .084		
Description	AWG	Part No.
Female Socket	24–18	AP3506891
Male Pin	24–18	AP3506901
Female Socket	20–14	AP3505501
Male Pin	20–14	AP3505471



Extraction Tool
Part No: AP18040301
Description: For Universal Mate-N-Lok



Pro Crimper
Description: For Universal Mate-N-Lok

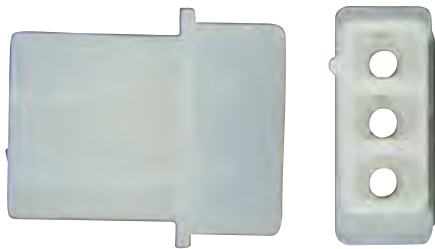
Frame & Die
Part No: AP905471
AWG: 20–14
Insulation Dia: .130 – .200



Commercial Mate-N-Lok



Plug for sockets
AP4803030



Cap for pins
AP4803050



Extraction Tool

Part No: AP4656441

Description: For Commercial Mate-N-Lok

Pro Crimper

Description: For Commercial Mate-N-Lok



Frame & Die

Part No: AP905741

AWG: 24-18

Frame & Die

Part No: AP905751

AWG: 20-14



Commercial Mate-N-Lok (600V-19A)		
Description	No. of Positions	Part No.
Cap	1	AP4803500
Plug	1	AP4803490
Cap	2	AP4803190
Plug	2	AP4803180
Cap	3	AP4803050
Plug	3	AP4803030
Cap	4	AP4804260
Plug	4	AP4804240

Pins and Sockets .084		
Description	AWG	Part No.
Male Pin	24-18	AP606181
Female Socket	24-18	AP606171
Male Pin	20-14	AP606201
Female Socket	20-14	AP606191





Pin & Sockets

Series 1



AP2061531

Free-Hanging Receptacles		
Shell Size	Position	Part No.
11	4	AP2061531
13	9	AP2067052
17	16	AP2060363
23	24	AP2068382



AP2060611

Square Flange Receptacles		
Shell Size	Position	Part No.
11	4	AP2060611
13	9	AP2067051
17	16	AP2060361
23	24	AP2068381



AP2060601

Plug		
Shell Size	Position	Part No.
11	4	AP2060601
13	9	AP2067081
17	16	AP2060371
23	24	AP2068371



AP2060621

Cable Clamp	
Shell Size	Part No.
11	AP2060621
13	AP2069661
17	AP2060701
23	AP2061381

Flexible Strain Relief Boot & Gripper

For Shell Size 11

Shell Size	Part No.	
	Gripper	Boot
11	AP2074901	AP2074891



Boot
AP2074891



Gripper
AP2074901



Pins			
AWG	Ins. Dia. Range	Finish	Part No.
24-20	.040-.080	Bright Tin	AP661032
24-20	.040-.080	Gold/Nickel	AP661034
18-16	.080-.100	Bright Tin	AP660992
18-16	.080-.100	Gold/Nickel	AP660994
18-14	.080-.100	Bright Tin	AP663612



Sockets			
AWG	Ins. Dia. Range	Finish	Part No.
24-20	.040-.080	Bright Tin	AP661052
24-20	.040-.080	Gold/Nickel	AP661054
18-16	.080-.100	Bright Tin	AP661012
18-16	.080-.100	Gold/Nickel	AP661014
18-14	.080-.100	Bright Tin	AP663602



Extraction Tool For Pin & Sockets

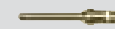
Part No: AP305183

Description: Type II & III CPC Contacts

Series 2

Size 20 DM Screw-Machined Crimp Contacts

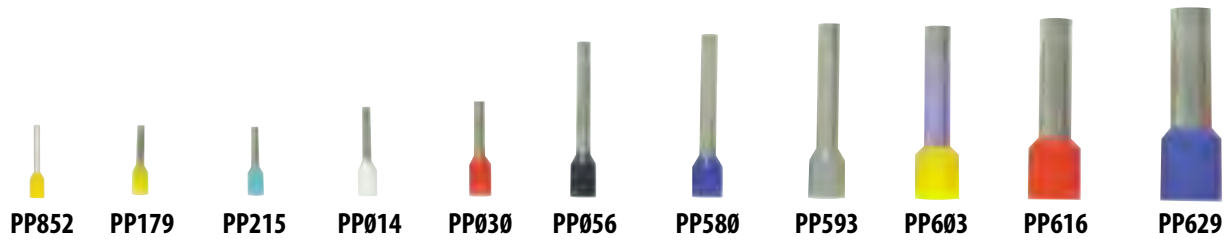
These contacts are for use in series 2 connectors and any connectors that require military spec M39029 contacts.



Pins			
AWG	Ins. Dia. Max.	MIL Spec	Part No.
24-20	.068	M39029/64-369	AP2050891



Sockets			
AWG	Ins. Dia. Max.	MIL Spec	Part No.
24-20	.068	M39029/63-368	AP2050901



Ferrules

Soft electrolytic copper with tin plating. The closer the connections are, the more reliable the insulation is and the less likely the wires are to splice. Specially designed ferrule crimp tools are also available: see Hand Tool section



AWG/Barrel Length	Color	Part No.
24 – 8mm	Yellow	PP852
24 – 6mm	Yellow	PP179
22 – 6mm	Lt. Green	PP215
20 – 8mm	Gray	PP519
20 – 8mm	White	PP014
18 – 8mm	Red	PP030
16 – 8mm	Black	PP043
16 – 18mm	Black	PP056
14 – 8mm	Blue	PP522
14 – 18mm	Blue	PP580
12 – 18mm	Gray	PP593
12 – 10mm	Gray	PP535
10 – 18mm	Yellow	PP603
10 – 12mm	Yellow	PP548
8 – 18mm	Red	PP616
8 – 12mm	Red	PP551
6 – 18mm	Blue	PP629
6 – 12mm	Blue	PP564
4 – 16mm	Yellow	PP577
2 – 16mm	Red	PP441
1/0 – 20mm	Blue	PP454

Twin Ferrules

Accepts two wires.



AWG/Barrel Length	Color	Part No.
2 × 20 – 8mm	White	PP20X2
2 × 18 – 8mm	Red	PP18X2
2 × 16 – 8mm	Black	PP16X2
2 × 14 – 10mm	Blue	PP14X2
2 × 12 – 12mm	Gray	PP12X2
2 × 10 – 14mm	Yellow	PP10X2



Battery Terminals, Lugs & Access.



Eco-Max Die Cast Battery Terminals

- Environmentally friendly battery terminals
- Lead free – Exempt from CA Prop.65 & RoHS compliant
- 100% C11000 ETP copper
- 101% IACS conductivity
- Tin Plated for corrosion resistance
- Tin Plated steel nut & bolt installed
- Color coded
- Exceeds SAE J-1811

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Our best selling battery terminals!



Straight



Left Elbow



Right Elbow



Flag

Style	Polarity	Color	AWG	Part No.
Straight	Universal	Gray	4	C2T4U
	Negative	Pink	1-2	C2T1N
	Positive	Pink	1-2	C2T1P
	Negative	Black	1/0	C2T10NS
	Positive	Black	1/0	C2T10PS
	Negative	Orange	2/0	C2T20NS
	Positive	Orange	2/0	C2T20PS
	Negative	Purple	3/0	C2T30NS
	Positive	Purple	3/0	C2T30PS
	Negative	Yellow	4/0	C2T40NS
Positive	Yellow	4/0	C2T40PS	
Flag	Negative	Black	1/0	C2TF10N
	Positive	Black	1/0	C2TF10P
	Negative	Orange	2/0	C2TF20N
	Positive	Orange	2/0	C2TF20P
	Negative	Purple	3/0	C2TF30N
	Positive	Purple	3/0	C2TF30P
	Negative	Yellow	4/0	C2TF40N
	Positive	Yellow	4/0	C2TF40P
Left Elbow	Negative	Black	1/0	C2TL10N
	Positive	Black	1/0	C2TL10P
	Negative	Orange	2/0	C2TL20N
	Positive	Orange	2/0	C2TL20P
	Negative	Purple	3/0	C2TL30N
	Positive	Purple	3/0	C2TL30P
Right Elbow	Negative	Black	1/0	C2TR10N
	Positive	Black	1/0	C2TR10P
	Negative	Orange	2/0	C2TR20N
	Positive	Orange	2/0	C2TR20P
	Negative	Purple	3/0	C2TR30N
	Positive	Purple	3/0	C2TR30P

MADE IN USA



Compression Crimp Tool

Part No: RC840B

For battery terminals and flared lugs, 4 – 4/0 GA, adjustable/dial-in gauge settings.



Diamond Crimper Tool

Part No: RC840A

6GA – 250 MCM, for battery terminals. Uses rotating dies.



Stud Top Battery Terminal Lugs – Tubular

- Made from copper tube, tin plated
- For 3/8" Stud Top Truck Batteries
- Stackable, with nesting indents to keep battery boxes organized



CLS_

Lugs	
Gauge	Part No.
4	CLS438A
1	CLS138A
1/0	CLS1038
2/0	CLS2038
3/0	CLS3038
4/0	CLS4038

Flags	
Gauge	Part No.
1/0	CLSF1038
2/0	CLSF2038
3/0	CLSF3038
4/0	CLSF4038



CLSF_

Stud Top Battery Terminal Lugs – Sand Cast

- Made from copper, tin plated
- For 3/8" Stud Top Truck Batteries
- Can also be used on side mount batteries



FBT_

Lugs	
Gauge	Part No.
4	FBT4
2-1	FBT1
2/0	FBT20
3/0	FBT30
4/0	FBT40

Flags	
Gauge	Part No.
2/0	FBTF20
3/0	FBTF30
4/0	FBTF40



FBTF_

Military Style Add-On Battery Terminals



- Accepts multiple connections using 3/8" stud cable lugs
- Complies with Military Specifications: Positive: A52425-1, Negative A52425-2
- Lead construction with zinc plated steel fasteners
- Low profile design: 3/4" high
- Bolt: 3/8"-16

Polarity	Part No.
Positive	BT0001
Negative	BT0002





Battery Terminals, Lugs & Access.



BT101SL



BT130



BT640P



BT640N



BTSM

Emergency "Bolt On" Battery Terminals		
Description	AWG	Part No.
Universal	6 – 2/0 Lead	BT101SL
Commercial	1 – 4/0 Lead	BT130
HD 3-WAY	6 – 4/0 POS	BT640P
HD 3-WAY	6 – 4/0 NEG	BT640N
Side Mount	6 – 2/0 Lead	BTSM



BT10WU



BT10WN



BT10WP

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Crimp-On Battery Terminals				
Style	Polarity	Color	AWG	Part No.
Straight	Negative	Pink	2 – 1	SBT1N
	Positive	Pink	2 – 1	SBT1P
	Universal	Green	4	SBT4U
	Negative	Black	1/0	SBT10NS
	Positive	Black	1/0	SBT10PS
	Negative	Orange	2/0	SBT20NS
	Positive	Orange	2/0	SBT20PS
	Negative	Purple	3/0	SBT30NS
	Positive	Purple	3/0	SBT30PS
	Negative	Yellow	4/0	SBT40N
Positive	Yellow	4/0	SBT40P	
Flag	Negative	Black	1/0	SBTF10N
	Positive	Black	1/0	SBTF10P
	Negative	Orange	2/0	SBTF20N
	Positive	Orange	2/0	SBTF20P
	Negative	Purple	3/0	SBTF30N
	Positive	Purple	3/0	SBTF30P
Left	Negative	Black	1/0	SBTL10N
	Positive			SBTL10P
	Negative	Orange	2/0	SBTL20N
	Positive			SBTL20P
Right	Negative	Black	1/0	SBTR10N
	Positive			SBTR10P
	Negative	Orange	2/0	SBTR20N
	Positive			SBTR20P

Marine Style Battery Terminals			
Polarity	Wing Nut/ Stud Size	Material	Part No.
Universal	5/16"–18	Zinc Alloy	BT10WU
Negative	5/16"–18	CU/Lead Plated	BT10WN
Positive	3/8"–18	CU/Lead Plated	BT10WP

Zinc Plated Steel Hardware

MADE IN USA



Left Elbow SBT_



Straight SBT_



Right Elbow SBTR_



Flag SBT_



Battery Terminal Insulators

- Protects from dirt, dust, foreign objects and against accidental shorting of ungrounded terminals
- Self-extinguishing V-94-2 flammability rated PVC
- Temperature rating 190°F (90°C)
- Meets SAE J1128 dielectric specification
- Available in red and black for easy polarity identification

Style	AWG	Color	Part No.
Straight	6	Red	ELC0060
		Black	ELC0061
	4	Red	ELC0062
		Black	ELC0063
	1-2	Red	ELC0064
		Black	ELC0065
	1/0-2/0	Red	ELC0066
		Black	ELC0067
Right Elbow	2 & 1	Red	ELC0069
		Black	ELC0070
	2/0 & 1/0	Red	ELC0071
		Black	ELC0072
Left Elbow	2 & 1	Red	ELC0073
		Black	ELC0074
	2/0 & 1/0	Red	ELC0075
		Black	ELC0076
Group 31 Stud Top	2 & 1	Red	ELC0077
		Black	ELC0078
	2/0 & 1/0	Red	ELC0079
		Black	ELC0080
Flag	2/0 & 1/0	Red	ELC0081
		Black	ELC0082
Marine Swivel Type	6 Thu 2/0	Red	ELC0083
		Black	ELC0084



ELC0067



ELC0070



ELC0075



ELC0082

ELC0080



ELC0084





Battery Terminals, Lugs & Access.



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Battery Terminal Accessories	
Description	Part No.
Battery Post Side Mount Bolt (Steel)	AP6045431
Extension Post Side Mount (Steel)	AP6045432
Battery Cable Tap	BCT8
Terminal Protector For Post Type – 100 per	BPP
Terminal Protector For Stud Type – 100 per	BPS
Terminal Protector For Side Mount Type – 100 per	BPSM
Side Mount Terminal Bolt 3/8" Stud (Lead-Plated)	BSM
Battery Terminal Bolt (Lead-Plated)	BTB
Nut For Battery Terminal Bolt (Lead-Plated)	BTN
Terminal Securing Nut For Stud Terminals (Stainless Steel)	FBN
Post Conversion Nut For Top Stud Type Batteries	SM4
Extension Post Bolt For Side Mount Terminals	SM5
Universal Side Mount Terminal Bolt	SM6
GM Side Mount Battery Bolt	SM7
GM Side Mount Battery Bolt , Dual Battery	SM8
GM Side Mount Battery Bolt Spacer , Dual Battery	SM9
Battery Terminal Bolt & Nut (QuickCote™ treated Black) 5/16-18 x 1-1/4	BTBNBK
Battery Terminal Bolt & Nut (QuickCote™ treated Red) 5/16-18 x 1-1/4	BTBNRD
Terminal Securing Nut For Stud Terminals (Stainless Steel, Black)	FBNBK
Terminal Securing Nut For Stud Terminals (Stainless Steel, Red)	FBNRD



Quick Compression Cable Lugs			
AWG	Color Code	Stud Size	Part No.
6	Blue	3/8"	CLQC638
		1/2"	CLQC612
4	Gray	3/8"	CLQC438
		1/2"	CLQC412
2 & 1	Green	3/8"	CLQC238
		1/2"	CLQC212
1/0	Black	3/8"	CLQC1038
		1/2"	CLQC1012
2/0	Orange	3/8"	CLQC2038
		1/2"	CLQC2012
3/0	Purple	3/8"	CLQC3038
		1/2"	CLQC3012
4/0	Yellow	3/8"	CLQC4038
		1/2"	CLQC4012



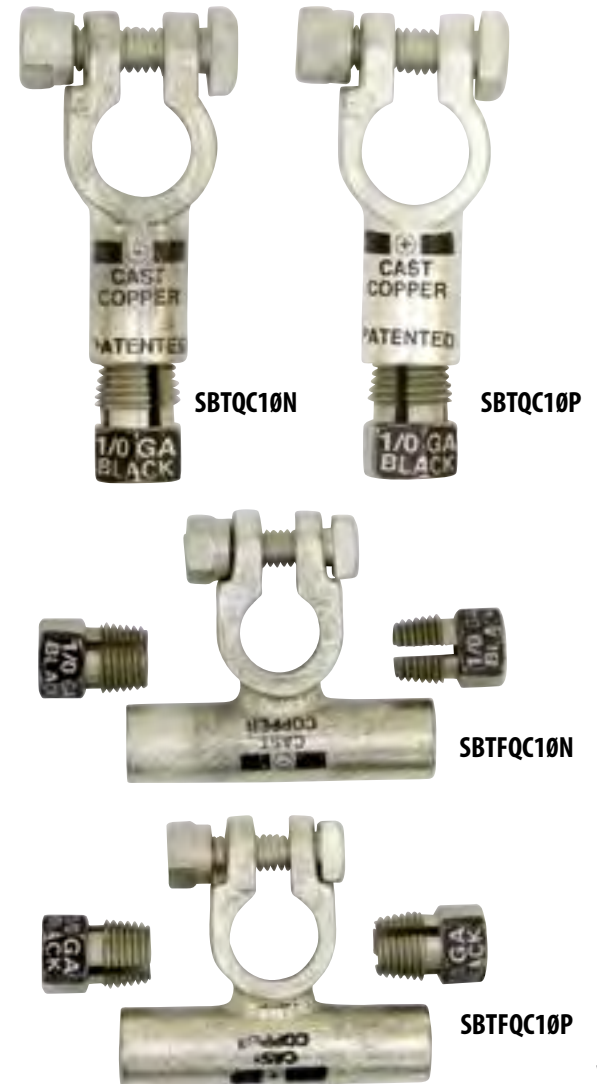
Quick Compression Lugs & Terminals

MADE IN USA

- Made of cast copper alloy, all clamps, lugs, compression nuts and fasteners are tin-plated.
- Compression nuts color coded to industry standard.
- Ideal for field repairs. No special tools required.

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Quick Compression Battery Terminals				
Style	Polarity	Color	AWG	Part No.
Straight	Universal	Blue	6	SBTQC6U
	Universal	Gray	4	SBTQC4U
	Negative	Pink	2 & 1	SBTQC2N
	Positive	Pink	1 & 1	SBTQC2P
	Negative	Black	1/0	SBTQC10N
	Positive	Black	1/0	SBTQC10P
	Negative	Orange	2/0	SBTQC20N
	Positive	Orange	2/0	SBTQC20P
	Negative	Purple	3/0	SBTQC30N
	Positive	Purple	3/0	SBTQC30P
	Negative	Yellow	4/0	SBTQC40N
	Positive	Yellow	4/0	SBTQC40P
Flag	Negative	Black	1/0	SBTFQC10N
	Positive	Black	1/0	SBTFQC10P
	Negative	Orange	2/0	SBTFQC20N
	Positive	Orange	2/0	SBTFQC20P
	Negative	Purple	3/0	SBTFQC30N
	Positive	Purple	3/0	SBTFQC30P
	Negative	Yellow	4/0	SBTFQC40N
	Positive	Yellow	4/0	SBTFQC40P

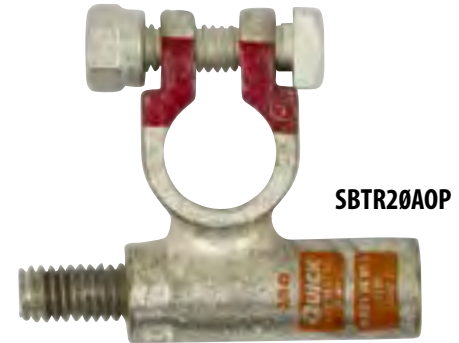




Battery Terminals, Lugs & Access.

Crimp-On Battery Terminals with Add-On Stud				
Style	Polarity	Color	AWG	Part No.
Left	Universal	Black	1/0	SBTL10AOU
	Negative	Orange	2/0	SBTL20AON
	Positive	Orange	2/0	SBTL20AOP
	Universal	Purple	3/0	SBTL30AOU
	Universal	Yellow	4/0	SBTL40AOU
Right	Universal	Black	1/0	SBTR10AOU
	Negative	Orange	2/0	SBTR20AON
	Positive	Orange	2/0	SBTR20AOP
	Universal	Purple	3/0	SBTR30AOU
	Universal	Yellow	4/0	SBTR40AOU

MADE IN USA



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Power Battery Terminal Brush	
Description	Part No.
Standard Top Post	BTPB1
Group 31 and GC2	BTPB2



BTPB1



BTPB2





Cable Lugs					
Cable Size (AWG)	Stud Size	Unplated Lug Part No.	Plated Lug Part No.	AWG	Plated Splice Part No.
8	#10	CL810	CLP810	8	CLPB8
	1/4"	CL814	CLP814		
	5/16"	CL856	CLP856		
	3/8"	CL838	CLP838		
	1/2"	CL812	CLP812		
6	#10	CL610	CLP610	6	CLPB6
	1/4"	CL614	CLP614		
	5/16"	CL656	CLP656		
	3/8"	CL638	CLP638		
	1/2"	CL612	CLP612		
4	#10	CL410	CLP410	4	CLPB4
	1/4"	CL414	CLP414		
	5/16"	CL456	CLP456		
	3/8"	CL438	CLP438		
	1/2"	CL412	CLP412		
2	1/4"	CL214	CLP214	2	CLPB2
	5/16"	CL256	CLP256		
	3/8"	CL238	CLP238		
	1/2"	CL212	CLP212		
1	1/4"	CL114	CLP114	1	CLPB1
	5/16"	CL156	CLP156		
	3/8"	CL138	CLP138		
	1/2"	CL112	CLP112		
1/0	1/4"	CL1014	CLP1014	1/0	CLPB10
	5/16"	CL1056	CLP1056		
	3/8"	CL1038	CLP1038		
	1/2"	CL1012	CLP1012		
2/0	1/4"	CL2014	CLP2014	2/0	CLPB20
	5/16"	CL2056	CLP2056		
	3/8"	CL2038	CLP2038		
	1/2"	CL2012	CLP2012		
3/0	1/4"	CL3014	CLP3014	3/0	CLPB30
	5/16"	CL3056	CLP3056		
	3/8"	CL3038	CLP3038		
	1/2"	CL3012	CLP3012		
4/0	1/4"	CL4014	CLP4014	4/0	CLPB40
	5/16"	CL4056	CLP4056		
	3/8"	CL4038	CLP4038		
	1/2"	CL4012	CLP4012		

Cable Lugs



Unplated Lug
CL_



Plated Lug
CLP_



Plated Splice
CLPB_



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Battery Terminals, Lugs & Access.

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Heavy-Duty Cable Lugs					
AWG	Color Code	Stud Size	Straight Part No.	45 Degree Part No.	90 Degree Part No.
8	Red	1/4"	CLHD814	-	-
		5/16"	CLHD8516	-	-
		3/8"	CLHD838	CLHD45838	CLHD90838
6	Blue	1/4"	CLHD614	-	-
		5/16"	CLHD6516	-	-
		3/8"	CLHD638	CLHD45638	CLHD90638
4	Gray	1/4"	CLHD414	-	-
		5/16"	CLHD4516	-	-
		3/8"	CLHD438	CLHD45438	CLHD90438
		1/2"	CLHD412	CLHD45412	CLHD90412
2	Green	3/8"	CLHD238	CLHD45238*	CLHD90238*
		1/2"	CLHD212	CLHD45212*	CLHD90212*
1	Pink	3/8"	CLHD138	-	-
		1/2"	CLHD112	-	-
1/0	Black	3/8"	CLHD1038	CLHD451038	CLHD901038
		1/2"	CLHD1012	CLHD451012	CLHD901012
2/0	Orange	1/4"	CLHD2014	-	-
		5/16"	CLHD20516	-	-
		3/8"	CLHD2038	CLHD452038	CLHD902038
		1/2"	CLHD2012	CLHD452012	CLHD902012
3/0	Purple	3/8"	CLHD3038	CLHD453038	CLHD903038
		1/2"	CLHD3012	CLHD453012	CLHD903012
4/0	Yellow	3/8"	CLHD4038	CLHD454038	CLHD904038
		1/2"	CLHD4012	CLHD454012	CLHD904012

*Also fits 1AWG



CLHD1012

CLHD451012

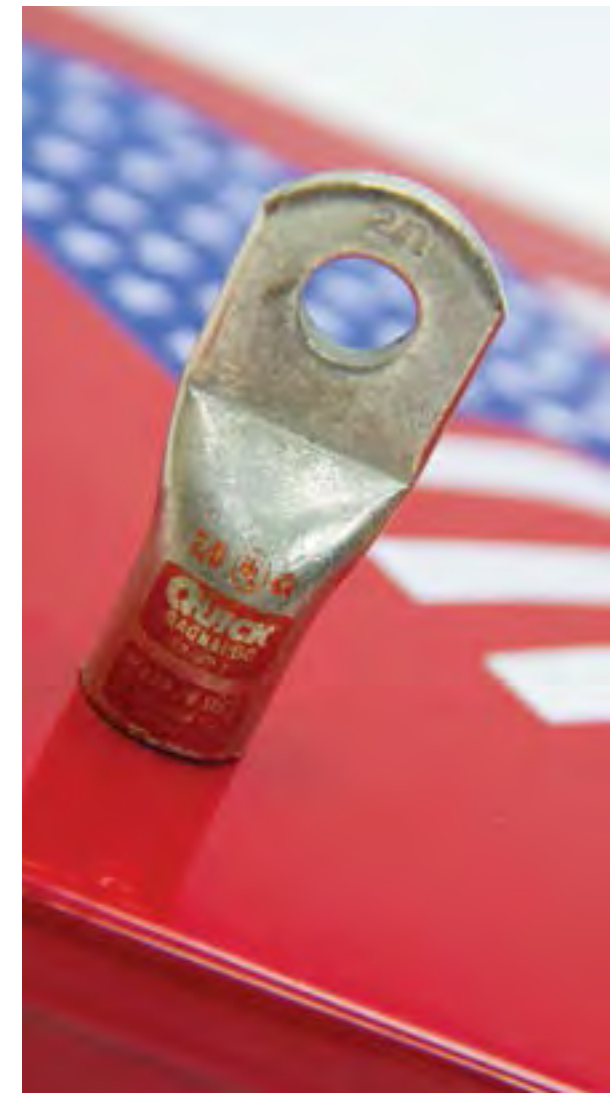


CLHD901012

Jumper Straps			
AWG	Color	Wire Length (in)	Part No.
1/0	Black	8	JS108BK
		16	JS1016BK
	Red	8	JS108RD
		16	JS1016RD



Not Actual Size





Industrial Battery Connectors (For Electric Vehicles) And Booster Systems				
Description	Contacts/ AWG	AMP Housing	Color	Part No.
Contact	12-10	50	N/A	IBCT1012
Contact	6		N/A	IBCT6
Housing	N/A		Gray	IBCH50GY
Housing	N/A		Blue	IBCH50BE
Housing	N/A		Red	IBCH50RD
Housing & Contact Kit	12-10		Gray	IBC1250
Housing & Contact Kit	6		Gray	IBC650
Protective Cap	N/A		Black	IBCCAP50
Handle Kit	N/A		Red	IBCHD50
Contact	4		175	N/A
Contact	2	N/A		IBCT2
Contact	1/0	N/A		IBCT10
Housing	N/A	Gray		IBCH175GY
Housing	N/A	Blue		IBCH175BE
Housing	N/A	Red		IBCH175RD
Housing & Contact Kit	4	Gray		IBC4175
Housing & Contact Kit	1/0	Gray		IBC10175
Protective Cap	N/A	Black		IBCCAP175
Handle Kit	N/A	Gray		IBCHD175
Lock Out Kit	N/A	Red	IBCL175	
Contact	2/0	350	N/A	IBCT20
Contact	3/0		N/A	IBCT30
Contact	4/0		N/A	IBCT40
Housing	N/A		Gray	IBCH350GY
Housing	N/A		Blue	IBCH350BE
Housing	N/A		Red	IBCH350RD
Housing & Contact Kit	2/0		Gray	IBC20350
Housing & Contact Kit	3/0		Gray	IBC30350
Housing & Contact Kit	4/0		Gray	IBC40350
Protective Cap	N/A		Black	IBCCAP350
Handle Kit	N/A	Gray	IBCHD350	
Lock Out Kit	N/A	Red	IBCL350	
Battery Booster Cable System (comes with a protective cap - 175 AMP). 4 AWG Cable - 400AMP Clamps				BCSKIT

**MADE IN
USA**



**Battery Connector Kit
IBC1250**



**Protective Cap
IBCCAP50**



**Housing
IBCH175BE**



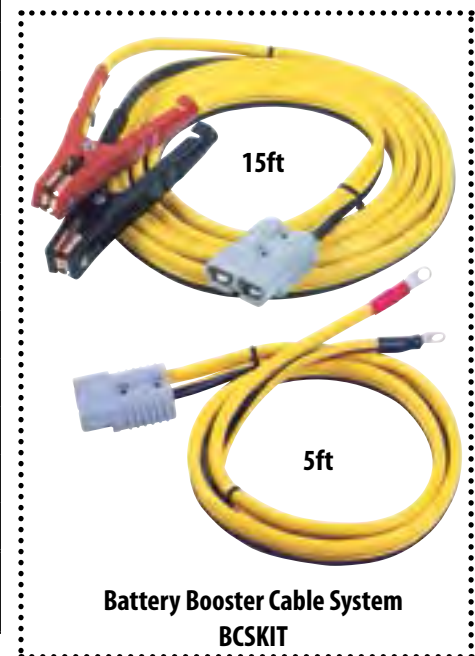
**Handle Kit
IBCHD50**



**Handle Kit
IBCHD175**



**Lock Out Kit
IBCL175**



**Battery Booster Cable System
BCSKIT**



Aviation - Nylon Insulated - AP, PIDG

PIDG (Pre-Insulated Diamond Grip)

PIDG terminals designed for uniform reliability in the most difficult circuit environments. Design of the tool dies and construction of the terminal insures uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area. Temperature Rating: 105°C Max. Constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. PIDG terminals meet or exceed the requirements of MIL-T- 7928, Type II, Class 1 and 2. Products are shown actual size. **MS25036, MS25274 and M7928 conform to MIL-T-7928.**

MADE IN USA



26-24 AWG



Description	Butt Splice
Part No.	AP323994
Mil-Spec No.	M7928/5-1

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Size	2	4	6	8	10
Part No.	AP323913	AP323914	AP326875	AP323916	AP324075
Mil-Spec No.	MS25036-143	MS25036-144	MS25036-145	MS25036-146	MS25036-147

24-20 AWG



Description	Unstripped Spare Wire Cap	Butt Splice
Part No.	AP324484	AP323975
Mil-Spec No.	-	M7928/5-2



Size	4	6	8	10
Part No.	AP323985	AP323986	AP323989	AP323990





PIDG (Pre-Insulated Diamond Grip)

Products are shown actual size.



22-16 AWG



Size	4	4	6	6	6	8	8
Part No.	AP320553	AP31880	AP36150	AP36152	AP51863	AP31890	AP31886
Mil-Spec No.	MS25036-148	MS25036-148	MS25036-101	-	MS25036-102	MS25036-149	-



Size	10	10	1/4"	5/16"	3/8"	1/2"
Part No.	AP36154	AP36153	AP31894	AP31895	AP31897	AP328975
Mil-Spec No.	MS25036-103	MS25036-103	MS25036-150	MS25036-104	MS25036-105	MS25036-151

Short Spring Fork



Size	6	8	10
Part No.	AP52929	AP52930	AP5293

Multi-Stud



Size	6-10	6	8	10	6
Part No.	AP547711	AP34541	AP32053	AP32054	AP32562

Flanged Fork

Description	Pin .071 Dia.	Knife Disconnect	Stripped Spare Wire Cap	Unstripped Spare Wire Cap	Butt Splice Clear	Nylon Butt Window Splice	Step-Down Window Splices Nylon 22-18 AWG Max. Ins. Dia. .150 16-14 AWG Max. Ins. Dia. .115	22-18 AWG Max. Ins. Dia. .140 12-10 AWG Max. Ins. Dia. .220
Part No.	AP1651681	AP32446†	AP328307	AP324485	AP557921	AP320559	AP327583	AP327639
Mil-Spec No.	-	-	MS25274-2	-	-	M7928/5-3	-	-

† Not listed by UL or Certified by CSA.



Aviation - Nylon Insulated - AP, PIDG

PIDG (Pre-Insulated Diamond Grip)

Products are shown actual size.

MADE IN USA



16-14 AWG

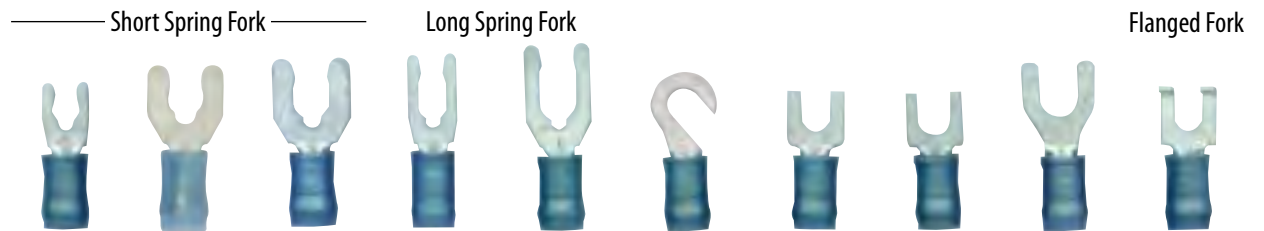
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Size	4	6	6	6	8	8	10	10	10
Part No.	AP324159	AP51864	AP320619	AP320561	AP320565	AP518641	AP36160	AP31903	AP518642
Mil-Spec No.	MS25036-152	MS25036-107	-	MS25036-106	-	MS25036-153	-	-	MS25036-108



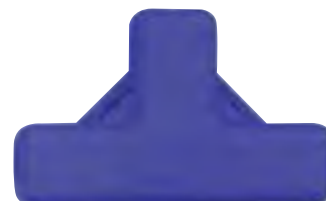
Size	1/4"	1/4"	5/16"	5/16"	3/8"	3/8"	1/2"
Part No.	AP321045	AP320563	AP328998	AP320575	AP328999	AP320564	AP328976
Mil-Spec No.	-	MS25036-154	-	MS25036-109	-	MS25036-110	MS25036-155



Size	6	8	10	6	10	8	6	8	10	6
Part No.	AP52935	AP52936	AP52937	AP52420	AP52421	AP320306	AP35559	AP321233	AP32060	AP320861



Part No. AP532221†



Description 3-Way Splice Insulator (Blue Nylon)
Part No. AP604596†



PIDG (Pre-Insulated Diamond Grip)

Products are shown actual size.

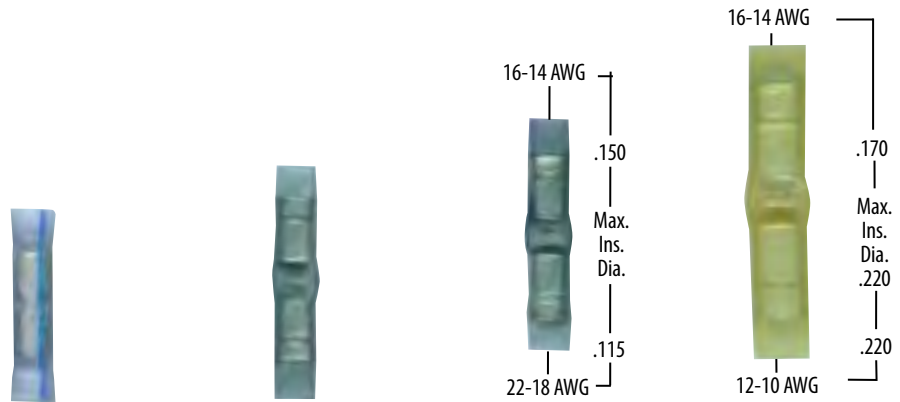


16-14 AWG



Description	Pin.071 Dia.	Knife Disconnect	Stripped Spare Wire Cap	Unstripped Spare Wire Cap
Part No.	AP165172	AP32448†	AP328308	AP324486
Mil-Spec No.	-	-	MS25274-3	-

† Not listed by UL or Certified by CSA.



Description	Butt Splice Clear	Butt Window Splice Nylon	Nylon Step-Down Window Splices	
Part No.	AP557851	AP320562	AP327583	AP327638
Mil-Spec No.	-	M7928/5-4	-	-

12-10 AWG



Size	6	6	8	8	10	10
Part No.	AP35149	AP35107	AP35108	AP320568	AP36161	AP35109
Mil-Spec No.	-	MS25036-111	MS25036-156	MS25036-156	MS25036-112	MS25036-112



Aviation - Nylon Insulated - AP, PIDG

PIDG (Pre-Insulated Diamond Grip)

Products are shown actual size.

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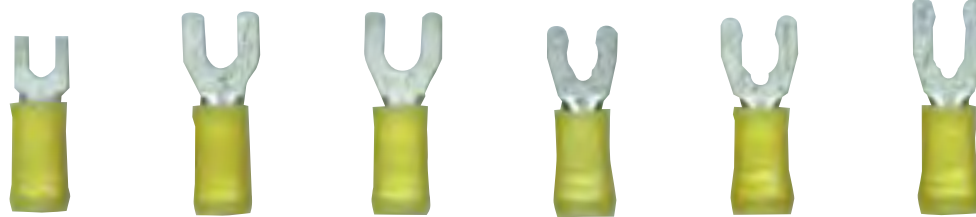
12-10 AWG



Size	1/4"	5/16"	3/8"	1/2"	1/2"
Part No.	AP35110	AP35111	AP35112	AP52077	AP35151
Mil-Spec No.	MS25036-157	MS25036-113	MS25036-114	MS25036-158	-

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Short Spring Fork Long Spring Fork



Size	6	8	10	8	10	8
Part No.	AP322985	AP32588	AP32589	AP52942	AP52943	AP524311



Description	Pin.102 Dia	Knife Disconnect	Stripped Spare Wire Connector	Butt Splice Clear	Butt Window Splice (Nylon)	Step-Down Window Splices (Nylon)	
Part No.	AP165049†	AP320620†	AP328309	AP557931†	AP320570	AP327639	AP327638
Mil-Spec No.	-	-	MS25274-4	-	MS79281/5-5	-	-

† Not listed by UL or Certified by CSA.



Mil-Spec Nylon Ring Terminals							
AWG	Stud Size	Mil-Spec	Part No.	AWG	Stud Size	Mil-Spec	Part No.
22-18	4	MS25036-148	6AA0882	8	5/16"	MS25036-117	6D462
	6	MS25036-101	6AA881		3/8"	MS25036-118	6D463
	8	MS25036-149	6AA890	6	#10	MS25036-119	6E1298
	10	MS25036-103	6AA891		1/4"	MS25036-120	6E1598
	1/4"	MS25036-150	6AA894		5/16"	MS25036-121	6E466
16-14	4	MS25036-152	6BB441	4	3/8"	MS25036-122	6E467
	6	MS25036-106	6BB442		1/4"	MS25036-123	6F469
	8	MS25036-153	6BB902		5/16"	MS25036-124	6F470
	10	MS25036-108	6BB903		3/8"	MS25036-125	6F471
	1/4"	MS25036-154	6BB906	2	1/4"	MS25036-126	6G0383
	5/16"	MS25036-109	6BB907		3/8"	MS25036-127	6G1600
	3/8"	MS25036-110	6BB909		1/2"	MS25036-128	6G1602
12-10	6	MS25036-111	6C149	1/0	1/4"	MS25036-132	6H915
	8	MS25036-156	6C108		3/8"	MS25036-133	6H917
	10	MS25036-112	6C109		1/2"	MS25036-134	6H919
	1/4"	MS25036-157	6C110	2/0	5/16"	MS25036-135	6J1870
	5/16"	MS25036-113	6C111		3/8"	MS25036-136	6J1871
	3/8"	MS25036-114	6C112	3/0	3/8"	MS25036-138	6K1876
8	#10	MS25036-115	6D460		1/2"	MS25036-139	6K1878
	1/4"	MS25036-116	6D461	4/0	1/2"	MS25036-141	6L1880

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Window Butt Connector		
AWG	Mil-Spec	Part No.
22-18	M7928/5-3	5A0707
16-14	M7928/5-4	5B0717
12-10	M7928/5-5	5C0727



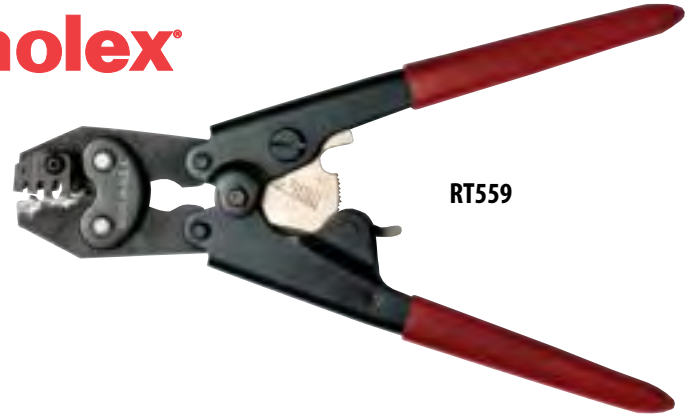
Wristlock Connector	
AWG	Part No.
22-18	5A216
16-14	5B216



Sealed Crimp Termination Splice

- The need to stagger wire splices per MIL-W-5088 is eliminated
- Meets the requirements of Military Specification No. MIL-S-81824/1
- "Environmental splices"

molex



RT559



AWG	12 – 18	16 – 22	20 – 26
Color	Yellow	Blue	Red
Part No.	SCTS12	SCTS16	SCTS20
Mil-Spec No.	MS81824/1-3	MS81824/1-2	MS81824/1-1

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Shield Termination Solder Sleeves

For grounding shielded aviation wires.



Wire Jacket O.D. Max.	Wire Shield O.D. Min.	No Preinstalled Lead		20 AWG Preinstalled 6" Lead		22 AWG Preinstalled 6" Lead	
		Part No.	Mil-Spec No.	Part No.	Mil-Spec No.	Part No.	Mil-Spec No.
0.075	0.035	STS22	M83519/1-1	STS22L20	M83519/2-1	STS22L22	M83519/2-6
0.105	0.055	STS20	M83519/1-2	STS20L20	M83519/2-2	STS20L22	M83519/2-7
0.170	0.085	STS18	M83519/1-3	STS18L20	M83519/2-3	STS18L22	M83519/2-8
0.235	0.130	STS16	M83519/1-4	STS16L20	M83519/2-4	STS16L22	M83519/2-9
0.275	0.170	STS14	M83519/1-5	STS14L20	M83519/2-5	STS14L22	M83519/2-10





Full Assortment Product Quantity 15







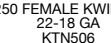
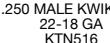
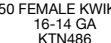

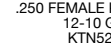













Starter Assortment Product Quantity 10

1/4" RING 22-18 GA
3A8486

You can choose between a full quantity assortment or partial "starter" assortment quantity.

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Crimp-N-Seal Connectors

Full Assortment Part No. CNSK 340 Pieces (Comes in a PB24 parts bin)				Starter Assortment Part No. CNSKSA 205 Pieces (Includes a PB24 parts bin)	
Back of Drawer					
 #10 RING 12-10 GA 3C4576 15 / 10	 1/4" RING 12-10 GA 3C7726 15 / 10	 3/8" RING 12-10 GA 3C24586 15 / 10	 #10 FORK 12-10 GA 3C4956 15 / 10	 STEP DOWN BUTT CONNECTOR 8 TO 12 & 10 GA SDCS812 10 / 5	 BUTT SPLICE 12-10 GA 3C1516 20 / 10
 .250 FEMALE KWIK-ON 22-18 GA KTN506 10 / 5	 .250 MALE KWIK-ON 22-18 GA KTN516 10 / 5	 .250 FEMALE KWIK-ON 16-14 GA KTN486 10 / 5	 .250 MALE KWIK-ON 16-14 GA KTN496 10 / 5	 .250 FEMALE KWIK-ON 12-10 GA KTN526 10 / 5	 .250 MALE KWIK-ON 12-10 GA KTN536 10 / 5
 #10 RING 16-14 GA 3B2176 15 / 10	 1/4" RING 16-14 GA 3B2186 15 / 10	 5/16" RING 16-14 GA 3B4546 15 / 10	 3/8" RING 16-14 GA 3B4756 15 / 10	 #10 FORK 16-14 GA 3B9056 15 / 10	 BUTT SPLICE 16-14 GA 3B8196 20 / 10
 #6 RING 22-18 GA 3A2356 15 / 10	 #8 RING 22-18 GA 3A9906 15 / 10	 #10 RING 22-18 GA 3A2146 15 / 10	 1/4" RING 22-18 GA 3A8486 15 / 10	 #8 FORK 22-18 GA 3A2396 15 / 10	 BUTT SPLICE 22-18 GA 3A8186 20 / 10
Front of Drawer					



Electrical Assortments

Crimp, Solder & Seal Connectors

Full Assortment

Part No. CSSK

240 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. CSSKSA

130 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 10 5 .250 TAB 20-18 GA. CRIMP, SOLDER & SEAL KTQ23	 10 5 .250 RECEPTACLE 1/4" 20-18 CRIMP, SOLDER & SEAL KTQ50	 10 5 .250 TAB 1/4" 16-14 GA CRIMP, SOLDER & SEAL KTQ43	 10 5 .250 RECEPTACLE 16-14 GA. KTQ48	 10 5 .250 TAB 12-10 GA. KTQ83	 10 5 .250 RECEPTACLE 12-10 GA. KTQ52
 10 5 #10 RING, 12-10 GA. 3QC457	 10 5 1/4" RING, 12-10 GA. 3QC772	 10 5 3/8" RING, 12-10 GA. 3QC2458	 10 5 3/8" RING, 12-10 GA 3QC135	 10 5 #10 SNAP FORK, 12-10 GA 3QC010	 10 10 BUTT SPLICE, 12-10 GA 3QC151
 10 5 #10 RING 16-14 GA. 3QB217	 10 5 1/4" RING, 16-14 GA. 3QB218	 10 5 5/16" RING 16-14 GA. 3QB454	 10 5 3/8" RING, 16-14 GA 3QB455	 10 5 #10 SNAP FORK, 16-14 GA 3QB010	 10 10 BUTT SPLICE, 16-14 GA 3QB819
 10 5 #6 RING 20-18 GA 3QA194	 10 5 #8 RING 20-18 GA. 3QA990	 10 5 #10 RING 20-18 GA. 3QA214	 10 5 1/4" RING, 20-18 GA. 3QA215	 10 5 #8 SNAP FORK, 20-18 GA 3QA008	 10 5 BUTT SPLICE, 20-18 GA 3QA818

Front of Drawer

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Crimp-N-Seal Assortment – 8 GA. & 3/4 Ways

Full Assortment

Part No. AST0206

140 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 5 4-WAY 18-12 GA NYL DBL CRIMP TERM 3A0746	 5 4-WAY 14-16 GA NYL DBL CRIMP TERM 3B0746	 5 4-WAY 12-10 GA NYL DBL CRIMP TERM 3C0746		
 5 3-WAY 18-12 GA NYL DBL CRIMP TERM 3A0736	 5 3-WAY 14-16 GA NYL DBL CRIMP TERM 3B0736	 5 3-WAY 12-10 GA NYL DBL CRIMP TERM 3C0736		 10 BUTT SPLICE 8GA CRIMP 'N' SEAL 3D3216
 10 #10 STUD 8 GA VINYL INSULATED 3D4606HD	 10 1/4" STUD 8 GA VINYL INSULATED 3D4616HD	 10 5/16" STUD 8 GA VINYL INSULATED 3D4626HD	 10 3/8" STUD 8 GA VINYL INSULATED 3D4636HD	 10 1/2" STUD 8 GA VINYL INSULATED 3D6646HD
 10 #10 RING 8GA CRIMP 'N' SEAL 3D4606	 10 1/4" RING 8GA CRIMP 'N' SEAL 3D4616	 10 5/16" RING 8GA CRIMP 'N' SEAL 3D4626	 10 3/8" RING 8GA CRIMP 'N' SEAL 3D4636	 10 1/2" RING 8GA CRIMP 'N' SEAL 3D6646

Front of Drawer



Aviation Terminals

Full Assortment Part No. TK04 735 Pieces (Comes in a PB24 parts bin)				Starter Assortment Part No. TK04SA 110 Pieces (Includes a PB24 parts bin)	
Back of Drawer					
 50 / 5 KNIFE DISCONN 22-16 GA NYL DBL CRIMP TERMINAL AP32446	 50 / 5 KNIFE DISCONN 16-14 GA NYL DBL CRIMP TERMINAL AP32448	 25 / 5 STRIPPED SPARE WIRE CAP 22-16 GA MS25274-2 AP328307	 25 / 5 STRIPPED SPARE WIRE CAP 16-14 GA MS25274-3 AP328308	 25 / 5 STRIPPED SPARE WIRE CAP 12-10 GA MS25274-4 AP328309	 25 / 5 WINDOW SPLICE 24-20 GA NYL DBL CRIMP M7928/5-2 AP323975
 25 / 5 #8 RING 12-10 GA NYL DBL CRIMP MS25036-156 AP320568	 25 / 5 #10 RING 12-10 GA NYL DBL CRIMP MS25036-112 AP36161	 25 / 5 1/4" RING 12-10 GA NYL DBL CRIMP MS25036-157 AP35110	 25 / 5 5/16" RING 12-10 GA NYL DBL CRIMP MS25036-113 AP35111		 10 / 5 WINDOW SPLICE 12-10 GA NYL DBL CRIMP M7928/5-5 AP320570
 50 / 5 #6 RING 16-14 GA NYL DBL CRIMP MS25036-107 AP51864	 50 / 5 #8 RING 16-14 GA NYL DBL CRIMP MS25036-153 AP518641	 50 / 5 #10 RING 16-14 GA NYL DBL CRIMP MS25036-108 AP518642	 25 / 5 1/4" RING 16-14 GA NYL DBL CRIMP MS25036-154 AP320563	 25 / 5 5/16" RING 16-14 GA NYL DBL CRIMP MS25036-109 AP320575	 25 / 5 WINDOW SPLICE 16-14 GA NYL DBL CRIMP M7928/5-4 AP320562
 50 / 5 #6 RING 22-16 GA NYL DBL CRIMP MS25036-101 AP36150	 50 / 5 #8 RING 22-16 GA NYL DBL CRIMP MS25036-149 AP31890	 50 / 5 #10 RING 22-16 GA NYL DBL CRIMP MS25036-103 AP36154	 25 / 5 1/4" RING 22-16 GA NYL DBL CRIMP MS25036-150 AP31894		 25 / 5 WINDOW SPLICE 22-16 GA NYL DBL CRIMP M7928/5-3 AP320559
Front of Drawer					

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Plant & Facility Terminals – Nylon Insulated

Full Assortment Part No. TK15 975 Pieces (Comes in a PB24 parts bin)				Starter Assortment Part No. TK15SA 575 Pieces (Comes in a PB24 parts bin)	
Back of Drawer					
 50 / 25 GRAY 300 VOLTS 22-16 GA WIRE NUT 30071	 50 / 25 BLUE 300 VOLTS 22-14 GA WIRE NUT 30072	 25 / 25 ORANGE 600 VOLT 22-14 GA WIRE NUT 30073	 25 / 25 YELLOW 600 VOLT 18-12 GA WIRE NUT 30074	 25 / 25 RED 600 VOLTS 18-10 GA WIRE NUT 30076	
 25 / 25 .250 RECEPTACLE, 12-10 GA NYLON, DBL. CRIMP KTN95	 25 / 25 .250 TAB, 12-10 GA NYLON, DBL. CRIMP KTN96	 50 / 25 #10 RING, 12-10 GA NYLON, DBL. CRIMP 5C109	 50 / 25 1/4" RING 12-10 GA NYLON, DBL. CRIMP 5C110	 50 / 25 #10 SNAP FORK 12-10 GA NYLON, DBL. CRIMP 5C010	 50 / 25 BUTT SPLICE, 12-10 GA NYLON, DBL. CRIMP 5C0725
 25 / 25 .250 RECEPTACLE, 16-14 GA NYLON, DBL. CRIMP KTN93	 25 / 25 .250 TAB, 16-14 GA NYLON, DBL. CRIMP KTN94	 50 / 25 #10 RING 16-14 GA NYLON, DBL. CRIMP 5B903	 50 / 25 #8 SNAP FORK 16-14 GA NYLON, DBL. CRIMP 5B008	 50 / 25 #10 SNAP FORK 16-14 GA NYLON, DBL. CRIMP 5B010	 50 / 25 BUTT SPLICE, 16-14 GA NYLON, DBL. CRIMP 5B0715
 50 / 25 22-18 GA CLOSED CONNECTOR NYLON INSULATED 5B115	 50 / 25 16-10 GA CLOSED CONNECTOR NYLON INSULATED 5B653	 50 / 25 #10 RING 22-18 GA NYLON, DBL. CRIMP 5A891	 50 / 25 #6 SNAP FORK 22-18 GA NYLON, DBL. CRIMP 5A006	 50 / 25 22-18 GA #10 SNAP FORK NYLON, DBL. CRIMP 5A010	 50 / 25 BUTT SPLICE, 22-18 GA NYLON, DBL. CRIMP 5A0705
Front of Drawer					



Electrical Assortments

Transportation Equipment – Nylon Insulated

Full Assortment

Part No. TK50

1000 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. TK50SA

575 Pieces (Comes in a PB24 parts bin)

Back of Drawer

25 / 25 .250 RECEPT 16-14 GA NYLON, DBL. CRIMP KTN93	25 / 25 .250 TAB, 16-14 GA NYLON, DBL. CRIMP KTN94	25 / 25 .250 RECEPTACLE, 12-10 GA NYLON, DBL. CRIMP KTN95	25 / 25 .250 TAB, 12-10 GA NYLON, DBL. CRIMP KTN96		25 / 25 22-14 GA SCOTCHLOK- MOISTURE RESISTANT SL314
50 / 25 #10 SNAP FORK 22-18 GA NYLON, DBL. CRIMP 5A010	50 / 25 #10 SNAP FORK 16-14 GA NYLON, DBL. CRIMP 5B010	50 / 25 #10 SNAP FORK 12-10 GA NYLON, DBL. CRIMP 5C010	50 / 25 .156 MALE SNAP PLUG 16-14 GA NYL DBL CRIMP SP227	50 / 25 .156 FEMALE SNAP PLUG 16-14 GA NYL DBL CRIMP SP845	50 / 25 BUTT SPLICE, 12-10 GA NYLON, DBL. CRIMP 5C0725
50 / 25 #10 RING, 12-10 GA NYLON, DBL. CRIMP 5C109	50 / 25 1/4" RING 12-10 GA NYLON, DBL. CRIMP 5C110	50 / 25 5/16" RING 12-10 GA NYLON, DBL. CRIMP 5C111	50 / 25 3/8" RING 12-10 GA NYLON, DBL. CRIMP 5C112	50 / 25 1/2" RING 12-10 GA NYLON, DBL. CRIMP 5C151	50 / 25 BUTT SPLICE, 16-14 GA NYLON, DBL. CRIMP 5B0715
50 / 25 #8 RING 16-14 GA NYLON, DBL. CRIMP 5B902	50 / 25 #10 RING 16-14 GA NYLON, DBL. CRIMP 5B903	50 / 25 1/4" RING 16-14 GA NYLON, DBL. CRIMP 5B906	50 / 25 5/16" RING 16-14 GA NYLON, DBL. CRIMP 5B907	50 / 25 3/8" RING 16-14 GA NYLON, DBL. CRIMP 5B909	25 / 25 BUTT SPLICE, 22-18 GA NYLON, DBL. CRIMP 5A0705

Front of Drawer

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Plant & Facility Terminals – Vinyl Insulated

Full Assortment

Part No. TK12

900 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. TK12SA

475 Pieces (Includes a PB24 parts bin)

Back of Drawer

	50 / 25 GREY WIRE NUTS. ACCEPTS 2 #22 TO 2 #16 AWG WIRE COMBO 30071	50 / 25 BLUE WIRE NUTS. ACCEPTS 2 #22 TO 3 #16 AWG WIRE COMBO 30072	25 / 15 ORANGE WIRE NUTS. ACPTS 1 #18 W/1 #20 TO 4 #16 AWG WIRE COMBO 30073	25 / 15 YELLOW WIRE NUTS. ACCEPTS 2 #18 TO 3 #12 AWG WIRE COMBO 30074	25 / 15 RED WIRE NUTS. ACCEPTS 2 #14 TO 4 #12 AWG WIRE COMBO 30076
25 / 15 .250 RECEPTACLE 12-10 GA. NYLON DBL. CRIMP KTN52	25 / 15 .250 TAB 12-10 GA KWIK-ON NYL FUL INSUL KTN53	50 / 25 #10 RING 12-10 GA. VINYL INSULATED 2C854	25 / 15 1/4" RING 12-10 GA. VINYL INSULATED 2C855	50 / 25 #10 BLOCK FORK 12-10 GA. VINYL INSULATED 2C996	50 / 25 BUTT SPLICE 12-10 GA. NYLON INSULATED 2C0721
25 / 15 .250 RECEPTACLE 16-14 GA. KWIK-ON NYL FUL INSUL KTN48	25 / 15 .250 TAB 16-14 GA. NYLON DBL. CRIMP KTN49	50 / 25 #10 RING 16-14 GA. VINYL INSULATED 2B161	50 / 25 #8 BLOCK FORK 16-14 GA VINYL INSULATED 2B1233	50 / 25 #10 BLOCK FORK 16-14 GA. VINYL INSULATED 2B1234	50 / 25 BUTT SPLICE 16-14 GA. NYLON INSULATED 2B0711
25 / 15 22-18 GA CLOSED CONNECTOR 5B115	25 / 15 16 -10 GA CLOSED END CONNECTOR 5B653	50 / 25 #10 RING 22-18 GA. VINYL INSULATED 2A146	50 / 25 #6 BLOCK FORK 22-18 GA. VINYL INSULATED 2A541	50 / 25 #10 BLOCK FORK 22-18 GA. VINYL INSULATED 2A543	50 / 25 BUTT SPLICE 22-18 GA. NYLON INSULATED 2A0701

Front of Drawer



Transportation Equipment – Vinyl Insulated

Full Assortment Part No. TK20 645 Pieces (Comes in a PB24 parts bin)			Starter Assortment Part No. TK20SA 270 Pieces (Comes in a PB24 parts bin)		
Back of Drawer					
	25 / 10 BLUE T-TAP .250 RECEPTACLE / 18-14 GA. SL14	25 / 10 .250 RECEPTACLE 16-14 GA. KWIK-ON NYL FUL INSUL KTN48	25 / 10 .250 TAB 16-14 GA. NYLON DBL. CRIMP KTN49	25 / 10 .250 RECEPTACLE 12-10 GA. NYLON DBL. CRIMP KTN52	25 / 10 .250 TAB 12-10 GA KWIK-ON NYL FUL INSUL KTN53
25 / 10 #10 BLOCK FORK 22-18 GA. VINYL INSULATED 2A543	25 / 10 #10 BLOCK FORK 16-14 GA. VINYL INSULATED 2B1234	25 / 10 #10 BLOCK FORK 12-10 GA. VINYL INSULATED 2C996	25 / 10 .156 MALE SNAP PLUG 16-14 GA VINYL INSUL. SP225	25 / 10 .156 FEMALE SNAP PLUG 16-14 GA NYL DBL CRIMP SP845	50 / 20 BUTT SPLICE 12-10 GA. NYLON INSULATED 2C0721
50 / 20 #10 RING 12-10 GA. VINYL INSULATED 2C854	25 / 10 1/4" RING 12-10 GA. VINYL INSULATED 2C855	25 / 10 5/16" RING 12-10GA. VINYL INSULATED 2C856	25 / 10 3/8" RING 12-10 GA. VINYL INSULATED 2C836	10 / 10 1/2" RING 12-10 GA. VINYL INSULATED 2C837	50 / 20 BUTT SPLICE 16-14 GA. NYLON INSULATED 2B0711
#8 Ring"/> 25 / 10 #8 RING 16-14 GA. VINYL INSULATED 2B160	50 / 20 #10 RING 16-14 GA. VINYL INSULATED 2B161	25 / 10 1/4" RING 16-14 GA. VINYL INSULATED 2B162	25 / 10 5/16" RING 16-14 GA. VINYL INSULATED 2B163	25 / 10 3/8" RING 16-14 GA. VINYL INSULATED 2B164	10 / 10 BUTT SPLICE 22-18 GA. NYLON INSULATED 2A0701
Front of Drawer					

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Insulated Wire Ferrules – Single & Twin Wire

Full Assortment Part No. HFK2 335 Pieces (Comes in a PB24 parts bin)					
Back of Drawer					
10 2 x 20 GA. WHITE M8 BARREL TWIN WIRE FERRULE PP20X2	10 2 x 18 GA. RED M8 BARREL TWIN WIRE FERRULE PP18X2	10 2 x 16 GA. BLACK M8 BARREL TWIN WIRE FERRULE PP16X2	10 2 x 14 GA. BLUE M10 BARREL TWIN WIRE FERRULE PP14X2	10 2 x 12 GA. GRAY M12 BARREL TWIN WIRE FERRULE PP12X2	10 2 x 10 GA. YELLOW M14 BARREL TWIN WIRE FERRULE PP10X2
5 10 GA. YELLOW M12 BARREL WIRE FERRULE PP548	5 10 GA. YELLOW M18 BARREL WIRE FERRULE PP603	5 8 GA. RED. M12 BARREL WIRE FERRULE PP551	5 8 GA. RED. M18 BARREL WIRE FERRULE PP616		
25 16 GA. BLACK. M8 BARREL WIRE FERRULE PP043	25 16 GA. BLACK. M18 BARREL WIRE FERRULE PP056	25 14 GA. BLUE. M8 BARREL WIRE FERRULE PP522	10 14 GA. BLUE. M18 BARREL WIRE FERRULE PP580	10 12 GA. GRAY. M10 BARREL WIRE FERRULE PP535	10 12 GA. GRAY. M18 BARREL WIRE FERRULE PP593
25 24 GA. YELLOW. M6 BARREL WIRE FERRULE PP179	25 24 GA. YELLOW M8 BARREL WIRE FERRULE PP852	25 22 GA. LT.GREEN. M6 BARREL WIRE FERRULE PP215	25 20 GA. GRAY. M8 BARREL WIRE FERRULE PP519	25 20 GA. WHITE. M8 BARREL WIRE FERRULE PP014	25 18 GA. RED. M8 BARREL WIRE FERRULE PP030
Front of Drawer					



Electrical Assortments

Deutsch DT Connectors

Full Assortment

Part No. DDTK

128 Pieces (Comes in a PB32 parts bin)

Starter Assortment

Part No. DDTKSA

72 Pieces (Includes a PB32 parts bin)

Back of Drawer

 14-16 GA SIZE 16 DT SOCKET D046220916141	 3P PLUG DDT063S	 3P PLUG WEDGELOCK DW3S	 6P PLUG DDT066S	 6P PLUG WEDGELOCK DW6S	 12 POSITION PLUG DDT0612SA	 12P PLUG WEDGELOCK DW12S	
 14-16 GA SIZE 16 DT PIN D046021516141	 3P RECEPTACLE DDT043P	 3P RECEPTACLE WEDGELOCK DW3P	 6P RECEPTACLE DDT046P	 6P RECEPTACLE WEDGELOCK DW6P	 12 POSITION RECEPTACLE DDT0412PA	 12P RECEPTACLE WEDGELOCK DW12P	
 16-18 GA SIZE 16 DT SOCKET D046220116141	 2P PLUG DDT062S	 2P PLUG WEDGELOCK DW2S	 4P PLUG DDT064S	 4P PLUG WEDGELOCK DW4S	 8 POSITION PLUG DDT068SA	 8 P PLUG WEDGELOCK DW8S	
 16-18 GA SIZE 16 DT PIN D046020216141	 2P RECEPTACLE DDT042P	 2P RECEPTACLE WEDGELOCK DW2P	 4P RECEPTACLE DDT044P	 4P RECEPTACLE WEDGELOCK DW4P	 8 POSITION RECEPTACLE DDT048PA	 8P RECEPTACLE WEDGELOCK DW8P	

Front of Drawer

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Deutsch DT Enhanced Connectors

Full Assortment

Part No. DDTEK

127 Pieces (Comes in a PB32 parts bin)

Starter Assortment

Part No. DDTEKSA

72 Pieces (Includes a PB32 parts bin)

Back of Drawer

 14-16 GA GOLD SOCKET D04622091631	 3P PLUG DDT063SP012	 3P PLUG WEDGELOCK DW3SP012	 6P PLUG DDT066SP012	 6P PLUG WEDGELOCK DW6SP012	 12P PLUG DDT0612SAEP07	 12P PLUG WEDGELOCK DW12SP012	
 14-16 GA GOLD PIN D04602151631	 3P RECEPTACLE DDT043PE004	 3P RECEPTACLE WEDGELOCK DW3P	 6P RECEPTACLE DDT046PE004	 6P RECEPTACLE WEDGELOCK DW6P	 12P RECEPTACLE DDT0412PAE004	 12P RECEPTACLE WEDGELOCK DW12P	
 16-18 GA GOLD SOCKET D04622011631	 2P PLUG DDT062SP012	 2P PLUG WEDGELOCK DW2SP012	 4P PLUG DDT064SP012	 4P PLUG WEDGELOCK DW4SP012	 8P PLUG DDT0608SAEP07	 8P PLUG WEDGELOCK DW8SP012	
 16-18 GA GOLD PIN D04602021631	 2P RECEPTACLE DDT042PE004	 2P RECEPTACLE WEDGELOCK DW2P	 4P RECEPTACLE DDT044PE004	 4P RECEPTACLE WEDGELOCK DW4P	 8P RECEPTACLE DDT048PAE004	 8P RECEPTACLE WEDGELOCK DW8P	

Front of Drawer



Deutsch DTM Assortment

Full Assortment

Part No. AST0208

106 Pieces (Comes in a PB21L parts bin)

Back of Drawer				
<p>DEU0012 3ea. 6 POS DTM SERIES RECEPT & WEDGLOCK DEU0018</p>		<p>DEU0024 3ea. 6 POS DTM SERIES PLUG & WEDGLOCK DEU0030</p>		<p>DT REMOVAL TOOL DDTRT1</p> <p>1</p>
<p>DEU0011 3ea. 4 POS DTM SERIES RECEPT & WEDGLOCK DEU0017</p>	<p>DEU0014 2ea. 12 POS DTM SERIES RECEPT & WEDGLOCK DEU0020</p>	<p>DEU0023 3ea. 4 POS DTM SERIES PLUG & WEDGLOCK DEU0029</p>	<p>DEU0024 2ea. 12 POS DTM SERIES PLUG & WEDGLOCK DEU0032</p>	
<p>DEU0010 3ea. 3 POS DTM SERIES RECEPT & WEDGLOCK DEU0016</p>	<p>DEU0013 2ea. 8 POS DTM SERIES RECEPT & WEDGLOCK DEU0019</p>	<p>DEU0022 3ea. 3 POS DTM SERIES PLUG & WEDGLOCK DEU0028</p>	<p>DEU0023 2ea. 8 POS DTM SERIES PLUG & WEDGLOCK DEU0031</p>	
<p>DEU0009 3ea. 2 POS DTM SERIES RECEPT & WEDGLOCK DEU0015</p>	<p>15 24-20 GA. CONTACT SIZE 20 DEUTSCH PIN D046020220141</p>	<p>DEU0021 3ea. 2 POS DTM SERIES PLUG & WEDGLOCK DEU0027</p>	<p>15 24-20 GA. CONTACT SIZE 20 DEUTSCH SOCKET D046220120141</p>	
			<p>10 18-20 GA DT SEALING PLUG D04132042005</p>	
Front of Drawer				

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Deutsch DTP Assortment

Full Assortment

Part No. AST0207

49 Pieces (Comes in a PB21L parts bin)

Back of Drawer				
				<p>DT REMOVAL TOOL DDTRT1</p> <p>1</p>
<p>3 2 POS FOR RECEPT DTP SERIES WEDGLOCK DEU0035</p>	<p>3 4 POS FOR RECEPT DTP SERIES WEDGLOCK DEU0036</p>	<p>3 2 POSITION FOR PLUG DTP SERIES WEDGLOCK DEU0039</p>	<p>3 4 POSITION FOR PLUG DTP SERIES WEDGLOCK DEU0040</p>	
<p>3 2 POSITION DTP SERIES RECEPT DEU0033</p>	<p>3 4 POSITION DTP SERIES RECEPT DEU0034</p>	<p>3 2 POSITION DTP SERIES PLUG DEU0037</p>	<p>3 4 POSITION DTP SERIES PLUG DEU0038</p>	
<p>10 14-12 GA. 12 DT PIN D046020412141</p>		<p>10 14-12 GA. 12 DT SOCKET D046220312141</p>	<p>3 12-16 GA DT SEALING PLUG D114017</p>	
Front of Drawer				



Electrical Assortments

Metri-Pack 150 Connectors

Full Assortment

Part No. MPK150






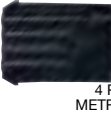

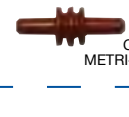


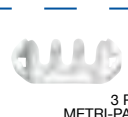
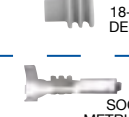


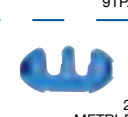


281 Pieces (Comes in a PBADJ parts bin)

Starter Assortment

Part No. MPK150SA

144 Pieces (Comes in a PBADJ parts bin)

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Back of Drawer			
 5 3 6 POS FEMALE CONN METRI-PACK 150 SERIES 9H6FMP150	 5 3 6 POS MALE CONN METRI-PACK 150 SERIES 9H6MMP150	 10 6 6 POS TPA METRI-PACK 150 SERIES 9TPA6MP150	 1 1 EXTRACTION TOOL 9ETMP
 5 3 4 POS FEMALE CONN METRI-PACK 150 SERIES 9H4FMP150	 5 3 4 POS MALE CONN METRI-PACK 150 SERIES 9H4MMP150	 10 6 4 POS TPA METRI-PACK 150 SERIES 9TPA4MP150	 10 5 CAVITY PLUG METRI-PACK 150 SERIES 9PDRD150
 10 5 3 POS FEMALE CONN METRI-PACK 150 SERIES 9H3FMP150	 10 5 3 POS MALE CONN METRI-PACK 150 SERIES 9H3MMP150	 20 10 3 POS TPA METRI-PACK 150 SERIES 9TPA3MP150	 50 25 18-16 GA - WHITE DEPHI WIRE SEAL 9SWE150
 10 5 2 POS FEMALE CONN METRI-PACK 150 SERIES 9H2FMP150	 10 5 2 POS MALE CONN METRI-PACK 150 SERIES 9H2MMP150	 20 10 2 POS TPA METRI-PACK 150 SERIES 9TPA2MP150	 50 25 SOCKET 18-16 GA METRI-PACK 150 SERIES 91618FM150
			 50 25 PIN 18-16 GA METRI-PACK 150 SERIES 91618MM150
Front of Drawer			

Metri-Pack 280 Connectors

Full Assortment


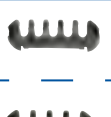





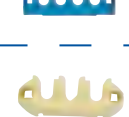



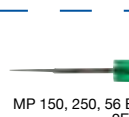







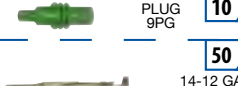








Part No. MPK280

451 Pieces (Comes in a PBADJ parts bin)

Starter Assortment

Part No. MPK280SA

252 Pieces (Comes in a PBADJ parts bin)
























Back of Drawer			
 5 3 5 POS. FEM CONN 9H5FMP280	 5 3 MP 280 5 POS. TIPA 9TPA5FMP280	 5 3 5 POS. MALE. CONN 9H5MMP280	 5 3 5 POS. MALE TPA 9TPA3MMP280
 5 3 4 POS. FEM CONN 9H4FMP280	 5 3 MP 280 4 POS. FEM. TPA 9TPA4FMP280	 5 3 MP 280 4 POS. MALE. CONNECTOR 9H4MMP280	 5 3 4 POS. MALE TPA 9TPA4MMP280
 5 3 3 POS. FEM CONN 9H3FMP280	 5 3 3 POS. FEM. TPA 9TPA3FMP280	 5 3 3 POS. MALE. CONN 9H3MMP280	 5 3 3 POS. MALE TPA 9TPA3MMP280
 10 5 2 POS. FEM CONN 9H2FMP280	 10 5 2 POS. MALE CONN 9H2MMP280	 20 10 MP 280 2 POS. TPA 9TPA2MP280	 1 1 EXTRACTION TOOL 9ETMP
 10 5 1 POS. FEM CONN. 9H1FMP280	 10 5 1 POS. MALE CONN 9H1MMP280	 20 10 MP 280 1 POS. TPA 9TPA1MP280	 1 1 MP 150, 250, 56 EXTRACTION TOOL 9ETMP
 50 25 20-18 SEAL 9SGN	 25 20 16-14 SEAL 9SGY	 25 20 12-10 SEAL 9SBE	 10 10 PLUG 9PG
 50 25 18-16 GA FEMALE SOCKET 91618FM280	 50 25 18-16 GA MALE PIN 91618MM280	 50 25 14-12 GA FEMALE SOCKET 91214FM280	 50 25 14-12 GA MALE PIN 91214MM280
Front of Drawer			



School Bus Assortment

Full Assortment
Part No. MPKB
 155 Pieces (Comes in a PB21L parts bin)

Back of Drawer

 4	 4	 4	 10	 10	 4
 4	 4	 10	 10	 10	 1
 4	 4	 10	 10	 10	 4
 4	 4	 10	 10	 10	






















Front of Drawer

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School Bus Assortment 2

Full Assortment
Part No. MPKB2
 160 Pieces (Comes in a PB24 parts bin)

Back of Drawer

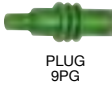










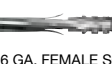
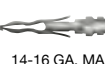




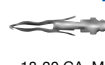




 4	 4	 4	 10	 4
 4	 4	 4	 10	 10
 4	 10	 10	 10	 10
 4	 10	 10	 10	 10
				 4

Front of Drawer



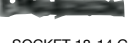















Electrical Assortments

Weather Pack Connectors

Full Assortment Part No. WPK 392 Pieces (Comes in a PB21L parts bin)			Starter Assortment Part No. WPKSA 202 Pieces (Includes a PB21L parts bin)		
Back of Drawer					
 50 / 25 PLUG 9PG	 4 / 4 1 POSITION FEMALE HOUSING 9H1FW	 4 / 4 1 POSITION MALE HOUSING 9H1MW	 4 / 4 6 POSITION FEMALE HOUSING 9H6FW	 4 / 4 6 POSITION MALE HOUSING 9H6MW	 1 / 0 RATCHET CRIMPING TOOL RT4254
 25 / 10 12 GA. FEMALE SOCKET 912FW	 25 / 10 12 GA MALE PIN 912MW	 50 / 25 12-10 GA. SEAL (BLUE) 9SBE	 4 / 4 4 POSITION FEMALE HOUSING 9H4FW	 4 / 4 4 POSITION MALE HOUSING 9H4MW	
 25 / 10 14-16 GA. FEMALE SOCKET 91416FW	 25 / 10 14-16 GA. MALE PIN 91416MW	 50 / 25 16-14 GA. SEAL (GRAY) 9SGY	 4 / 4 3 POSITION FEMALE HOUSING 9H3FW	 4 / 4 3 POSITION MALE HOUSING 9H3MW	
 25 / 10 18-20 GA. FEMALE SOCKET 91820FW	 25 / 10 18-20 GA. MALE PIN 91820MW	 50 / 25 20-18 GA. SEAL (GREEN) 9SGN	 4 / 4 2 POSITION FEMALE HOUSING 9H2FW	 4 / 4 2 POSITION MALE HOUSING 9H2MW	
Front of Drawer					
 1 / 1 PIN & SOCKET EXTRACTION TOOL 9ET					





















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Circular Plastic Connectors

Full Assortment Part No. CPCK 233 Pieces (Comes in a PBADJ parts bin)			
Back of Drawer			
 50	 5	 5	 5
 50	 1	 1	 1
 50	 2	 2	 2
 50	 3	 3	 3
Front of Drawer			

























Molex Connectors (.062 Dia.)

Full Assortment Part No. MOL6K 222 Pieces (Comes in a PB21L parts bin)					Starter Assortment Part No. MOL6KSA 116 Pieces (Includes a PB21L parts bin)	
Back of Drawer						
 5 3	 5 3	 5 3				 1 1  1 1 CRIMPING TOOL HT1921 EXTRACTION TOOL 9ETM6
 5 3	 5 3	 5 3	 5 3	 5 3		
 10 5	 10 5	 10 5	 10 5	 10 5		
 50 25	 50 25	 10 5	 10 5	 10 5		
Front of Drawer						

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Molex Connectors (.093 Dia.)

Full Assortment Part No. MOL9K 322 Pieces (Comes in a PB21L parts bin)						
Back of Drawer						
 10	 5	 5	 5	 5		 1  1 CRIMPING TOOL HT1919 PIN & SOCKET EXTRACTION TOOL 9ETM9
 10	 10	 5	 5	 5		
 10	 10	 10	 10	 10		
 50	 50	 50	 50	 10		
Front of Drawer						



Electrical Assortments























Universal Mate-N-Lok Connectors

Full Assortment

Part No. UMLK

482 Pieces (Comes in a PBADJ parts bin)

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








Back of Drawer			
 5	 5	 5	 5
 5	 5	 5	 5
 5	 5	 5	 5
 5	 5	 5	 5
 100	 100	 100	 1
			 1
			 100
Front of Drawer			

Commercial Mate-N-Lok Connectors

Full Assortment















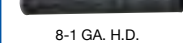





Part No. CMLK

482 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 100	 10	 10	 1
 100	 10	 10	
 100	 10	 10	
 100	 10	 10	 1
Front of Drawer			





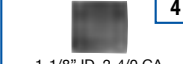





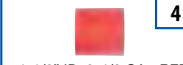














Battery Terminals – Heavy Duty

Full Assortment Part No. SBTKEF 108 Pieces (Comes in a PB21L parts bin)				Starter Assortment Part No. SBTKEFSA 71 Pieces (Comes in a PB21L parts bin)	
Back of Drawer					
 2 2	 2 2	 2 2	 2 2		 2 2
 2 2	 2 2	 2 2	 2 2		
 6 3	 6 3	 6 3	 6 3	 4 2	 2 2
 6 3	 25 15	 25 15	 2 2	 2 2	
Front of Drawer					

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ECO-MAX Battery Terminals

Full Assortment Part No. EMBTK 85 Pieces (Comes in a PB24 parts bin)					
Back of Drawer					
 3	 3	 4	 3		 4
 2	 2	 2	 2	 15	 4
 2	 2	 2	 2	 15	 4
 2	 2	 2	 2	 2	 4
Front of Drawer					

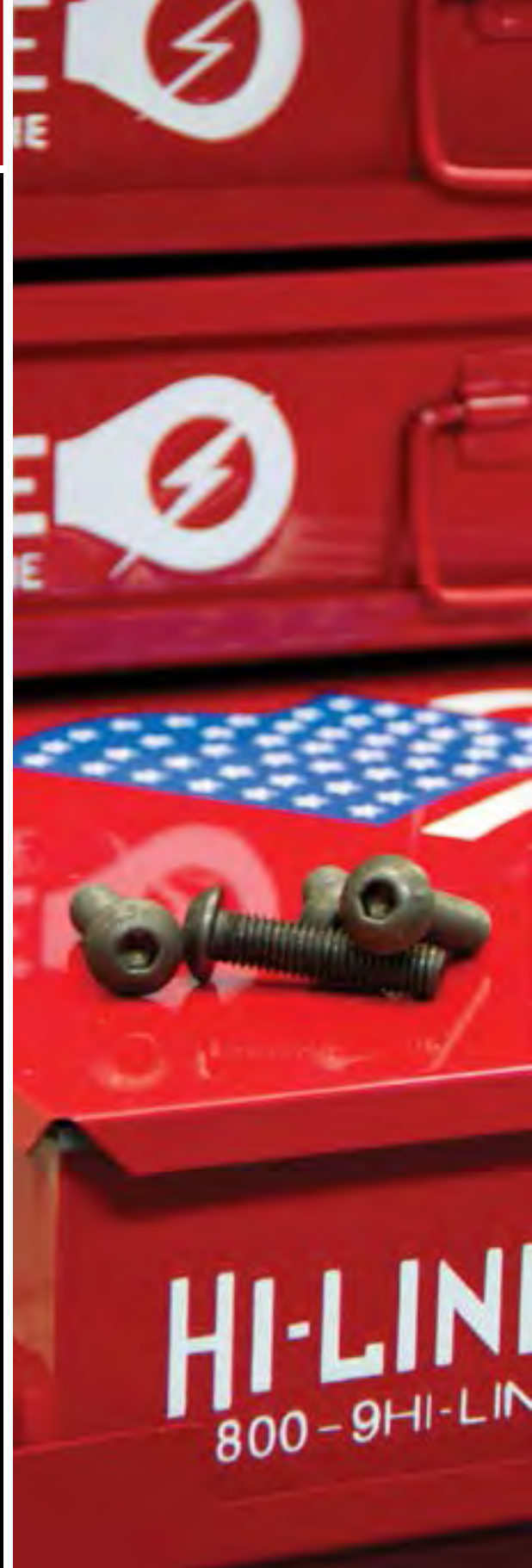


FASTENERS & HARDWARE

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Screw Type Length Measurement	
<p>Button Socket</p>	<p>Truss</p>
<p>Pan</p>	<p>Hex Head</p>
<p>Round</p>	<p>Carriage</p>
<p>Flat</p>	<p>Plow</p>
<p>Oval</p>	<p>Socket</p>





Screw Type Diameter Measurement		
<p>Cap Screw</p>	<p>Carriage Bolt</p>	<p>Machine Screw</p>
<p>Stud</p>	<p>Lag and Wood Screws</p>	<p>Sheet Metal Screw</p>
<p>Set Screw</p>	<p>Nut</p>	

Screw Thread Measurement	
<p>Metric Threads - Pitch</p>	<p>Inch Threads - Threads Per Inch</p>



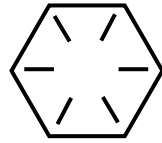
Fasteners & Hardware

Tapping Screw Point Type A, AB, B, F

	Type A point: A thread forming screw for use in thin metal .015 to .050 thick. Used with drilled, punched or nested holes in sheet metal, resin impregnated plywood, and combinations of material.
	Type AB point: A thread forming screw combining the locating point of Type A with thread size and pitch of Type B. Normal limitations of type B apply.
	Type B point: A thread forming screw for use in heavier metal .050 to .200 thick. Larger root diameter with finer thread pitch for light and heavy sheet metal non-ferrous castings, plastics, impregnated plywood, combinations of materials, and other materials.
	Type F point: A thread cutting screw with machine screw thread with blunt tapered point, having multi-cutting edges and chip cavities. For heavy gauge sheet metal, aluminum, zinc and lead die castings, cast iron, brass and plastic.

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Grade 8 U.S.S.



- Grade 8 Cap Screws are the highest strength of standard S.A.E. cap screws and are made from alloy steels and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A449
- SAE J429
- Dimensions ANSI B18.2.1

Hex Head Cap Screws										
Grade 8, U.S.S. Coarse Thread, Yellow Zinc Plated										
Diameter Length	Part No.									
	1/4" – 20	5/16" – 18	3/8" – 16	7/16" – 14	1/2" – 13	9/16" – 12	5/8" – 11	3/4" – 10	7/8" – 9	1" – 8
1/2"	22G12	22H12	22I12	–	–	–	–	–	–	–
5/8"	22G58	22H58	22I58	–	–	–	–	–	–	–
3/4"	22G34	22H34	22I34	22J34	22K34	–	–	–	–	–
7/8"	22G78	22H78	22I78	22J78	22K78	–	–	–	–	–
1"	22G1	22H1	22I1	22J1	22K1	22L1	22M1	22N1	–	–
1-1/4"	22G114	22H114	22I114	22J114	22K114	22L114	22M114	22N114	–	–
1-1/2"	22G112	22H112	22I112	22J112	22K112	22L112	22M112	22N112	22O112	22P112
1-3/4"	22G134	22H134	22I134	22J134	22K134	22L134	22M134	22N134	22O134	22P134
2"	22G2	22H2	22I2	22J2	22K2	22L2	22M2	22N2	22O2	22P2
2-1/4"	22G214	22H214	22I214	22J214	22K214	22L214	22M214	22N214	22O214	22P214
2-1/2"	22G212	22H212	22I212	22J212	22K212	22L212	22M212	22N212	22O212	22P212
2-3/4"	22G234	22H234	22I234	22J234	22K234	22L234	22M234	22N234	22O234	22P234
3"	22G3	22H3	22I3	22J3	22K3	22L3	22M3	22N3	22O3	22P3
3-1/4"	22G314	22H314	22I314	22J314	22K314	22L314	22M314	22N314	22O314	22P314
3-1/2"	22G312	22H312	22I312	22J312	22K312	22L312	22M312	22N312	22O312	22P312
3-3/4"	22G334	22H334	22I334	22J334	22K334	22L334	22M334	22N334	22O334	22P334
4"	22G4	22H4	22I4	22J4	22K4	22L4	22M4	22N4	22O4	22P4
4-1/2"	22G412	22H412	22I412	22J412	22K412	22L412	22M412	22N412	22O412	22P412
5"	22G5	22H5	22I5	22J5	22K5	22L5	22M5	22N5	22O5	22P5
5-1/2"	22G512	22H512	22I512	22J512	22K512	22L512	22M512	22N512	22O512	22P512
6"	22G6	22H6	22I6	22J6	22K6	22L6	22M6	22N6	22O6	22P6



Grade 8, U.S.S. – Inch



Flat Steel Washers Grade 8 U.S.S. Yellow Zinc Plated	
Dia. (in)	Part No.
1/4	23G
5/16	23H
3/8	23I
7/16	23J
1/2	23K
9/16	23L
5/8	23M
3/4	23N
7/8	23O
1	23P

Extra Thick Washers Grade 8 U.S.S. Yellow Zinc Plated	
Dia. (in)	Part No.
1/4	46GL
5/16	46HL
3/8	46IL
7/16	46JL
1/2	46KL
9/16	46LL
5/8	46ML
3/4	46NL
7/8	46OL
1	46PL

Hex Nuts Grade 8 U.S.S. Coarse Thread Yellow Zinc Plated	
Dia.	Part No.
1/4" – 20	22G
5/16" – 18	22H
3/8" – 16	22I
7/16" – 14	22J
1/2" – 13	22K
9/16" – 12	22L
5/8" – 11	22M
3/4" – 10	22N
7/8" – 9	22O
1" – 8	22P

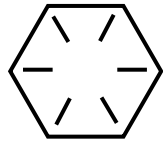
Heavy-Duty Grade C Lock Nuts Coarse Thread Zinc Plated	
Dia.	Part No.
1/4" – 20	Ø3G
5/16" – 18	Ø3H
3/8" – 16	Ø3I
7/16" – 14	Ø3J
1/2" – 13	Ø3K
9/16" – 12	Ø3L
5/8" – 11	Ø3M
3/4" – 10	Ø3N
7/8" – 9	Ø3O
1" – 8	Ø3P

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Nylon Insert Self-Locking Hex Nuts Heavy-Duty, Zinc Yellow U.S.S. Coarse	
Dia.	Part No.
1/4" – 20	Ø13G
5/16" – 18	Ø13H
3/8" – 16	Ø13I
7/16" – 14	Ø13J
1/2" – 13	Ø13K
9/16" – 12	Ø13L
5/8" – 11	Ø13M
3/4" – 10	Ø13N
7/8" – 9	Ø13O
1" – 8	Ø13P





Grade 8 S.A.E.



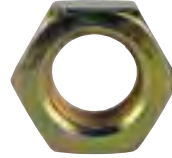
Hex Head Cap Screws Grade 8, S.A.E. Fine Thread, Yellow Zinc Plated										
Diameter Length	Part No.									
	1/4" – 28	5/16" – 24	3/8" – 24	7/16" – 20	1/2" – 20	9/16" – 18	5/8" – 18	3/4" – 16	7/8" – 14	1" – 14
1/2"	21G12	21H12	21I12	–	–	–	–	–	–	–
5/8"	21G58	21H58	21I58	–	–	–	–	–	–	–
3/4"	21G34	21H34	21I34	21J34	21K34	–	–	–	–	–
7/8"	21G78	21H78	21I78	21J78	21K78	–	–	–	–	–
1"	21G1	21H1	21I1	21J1	21K1	21L1	21M1	–	–	–
1-1/4"	21G114	21H114	21I114	21J114	21K114	21L114	21M114	–	–	–
1-1/2"	21G112	21H112	21I112	21J112	21K112	21L112	21M112	21N112	21O112	21P112
1-3/4"	21G134	21H134	21I134	21J134	21K134	21L134	21M134	21N134	21O134	21P134
2"	21G2	21H2	21I2	21J2	21K2	21L2	21M2	21N2	21O2	21P2
2-1/4"	21G214	21H214	21I214	21J214	21K214	21L214	21M214	21N214	21O214	21P214
2-1/2"	21G212	21H212	21I212	21J212	21K212	21L212	21M212	21N212	21O212	21P212
2-3/4"	21G234	21H234	21I234	21J234	21K234	21L234	21M234	21N234	21O234	21P234
3"	21G3	21H3	21I3	21J3	21K3	21L3	21M3	21N3	21O3	21P3
3-1/2"	21G312	21H312	21I312	21J312	21K312	21L312	21M312	21N312	21O312	21P312
3-3/4"	21G334	21H334	21I334	21J334	21K334	21L334	21M334	21N334	21O334	21P334
4"	21G4	21H4	21I4	21J4	21K4	21L4	21M4	21N4	21O4	21P4
4-1/2"	21G412	21H412	21I412	21J412	21K412	21L412	21M412	21N412	21O412	21P412
5"	21G5	21H5	21I5	21J5	21K5	21L5	21M5	21N5	21O5	21P5
5-1/2"	21G512	21H512	21I512	21J512	21K512	21L512	21M512	21N512	21O512	21P512
6"	21G6	21H6	21I6	21J6	21K6	21L6	21M6	21N6	21O6	21P6

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Grade 8, S.A.E. – Inch



Flat Steel Washers Grade 8 S.A.E. Yellow Zinc Plated	
Dia. (in)	Part No.
1/4	29G
5/16	29H
3/8	29I
7/16	29J
1/2	29K
9/16	29L
5/8	29M
3/4	29N
7/8	29O
1	29P
1-1/4	29Q

Extra Thick Washers Grade 8 S.A.E. Yellow Zinc Plated	
Dia. (in)	Part No.
1/4	46GS
5/16	46HS
3/8	46IS
7/16	46JS
1/2	46KS
9/16	46LS
5/8	46MS
3/4	46NS
7/8	46OS
1	46PS

Hex Nuts Grade 8 S.A.E., Fine Thread Yellow Zinc Plated	
Dia.	Part No.
1/4" – 28	21G
5/16" – 24	21H
3/8" – 24	21I
7/16" – 20	21J
1/2" – 20	21K
9/16" – 18	21L
5/8" – 18	21M
3/4" – 16	21N
7/8" – 14	21O
1" – 14	21P

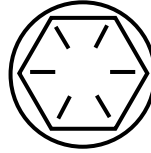
Heavy-Duty Lock Nuts Grade C.S.A.E. Zinc Plated	
Dia.	Part No.
1/4" – 28	Ø7G
5/16" – 24	Ø7H
3/8" – 24	Ø7I
7/16" – 20	Ø7J
1/2" – 20	Ø7K
9/16" – 18	Ø7L
5/8" – 18	Ø7M
3/4" – 16	Ø7N
7/8" – 14	Ø7O

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Nylon Insert Self-Locking Hex Nuts Heavy-Duty Zinc Yellow S.A.E. Fine	
Dia.	Part No.
1/4" – 28	Ø17G
5/16" – 24	Ø17H
3/8" – 24	Ø17I
7/16" – 20	Ø17J
1/2" – 20	Ø17K
9/16" – 18	Ø17L
5/8" – 18	Ø17M
3/4" – 16	Ø17N
7/8" – 14	Ø17O
1" – 14	Ø17P





U.S.S.



Grade 8 Flanged Frame Bolts

For use on Freightliner, Mack, Western, White, Autocar, Peterbilt, IHC and other types of heavy equipment.

- Specially designed for truck frame bolting
- **150,000 PSI minimum tensile strength**
- Dimensions conform to IFI-111
- Maximum service temperature 650°F (343°C)



Flanged Locknut Grade G, U.S.S.

Dia.	Part No.
1/4"–20	480G
5/16"–18	480H
3/8"–16	480I
1/2"–13	480K
5/8"–11	480M
3/4"–10	480N



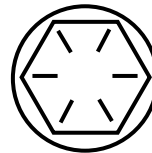
Flanged Locknut Grade G, S.A.E.

Dia.	Part No.
1/4"–28	481G
5/16"–24	481H
3/8"–24	481I
1/2"–20	481K
5/8"–18	481M
3/4"–16	481N

Flanged Frame Bolts

U.S.S.

Diameter Length	Part No.					
	1/4"–20	5/16"–18	3/8"–16	1/2"–13	5/8"–11	3/4"–10
3/4"	478G34	478H34	–	–	–	–
1"	478G1	478H1	478I1	–	–	–
1-1/4"	478G114	478H114	478I114	478K114	–	–
1-1/2"	478G112	478H112	478I112	478K112	478M112	–
1-3/4"	478G134	478H134	478I134	478K134	478M134	–
2"	478G2	478H2	478I2	478K2	478M2	478N2
2-1/4"	–	–	–	478K214	478M214	–
2-1/2"	478G212	478H212	478I212	478K212	478M212	478N212
2-3/4"	–	–	–	478K234	478M234	–
3"	478G3	478H3	478I3	478K3	478M3	478N3
3-1/2"	–	–	478I312	478K312	478M312	478N312
4"	–	–	478I4	478K4	478M4	478N4
4-1/2"	–	–	–	478K412	478M412	478N412
5"	–	–	–	478K5	478M5	478N5



S.A.E.



Flanged Frame Bolts

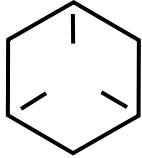
S.A.E.

Diameter Length	Part No.		
	1/2"–20	5/8"–18	3/4"–16
1-1/4"	479K114	–	–
1-1/2"	479K112	479M112	–
1-3/4"	479K134	479M134	–
2"	479K2	479M2	479N2
2-1/4"	479K214	479M214	–
2-1/2"	479K212	479M212	479N212
2-3/4"	479K234	479M234	–
3"	479K3	479M3	479N3
3-1/2"	479K312	479M312	479N312
4"	479K4	479M4	479N4
4-1/2"	479K412	479M412	–
5"	479K5	479M5	–



Grade 5, U.S.S. – Inch

- Grade 5 Cap Screws are medium strength fasteners made with a medium carbon or low alloy steel and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A354
- SAE J429
- Dimensions ANSI B18.2.1

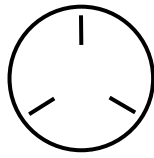


Grade 5 U.S.S.

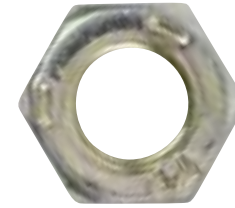
Hex Head Cap Screws Grade 5, U.S.S. Coarse Thread, Zinc Plated

Diameter Length	Part No.									
	1/4" – 20	5/16" – 18	3/8" – 16	7/16" – 14	1/2" – 13	9/16" – 12	5/8" – 11	3/4" – 10	7/8" – 9	1" – 8
1/2"	20G12	20H12	20I12	–	–	–	–	–	–	–
5/8"	20G58	20H58	20I58	–	–	–	–	–	–	–
3/4"	20G34	20H34	20I34	20J34	20K34	–	–	–	–	–
7/8"	20G78	20H78	20I78	20J78	20K78	–	–	–	–	–
1"	20G1	20H1	20I1	20J1	20K1	20L1	20M1	20N1	–	–
1-1/4"	20G114	20H114	20I114	20J114	20K114	20L114	20M114	20N114	–	–
1-1/2"	20G112	20H112	20I112	20J112	20K112	20L112	20M112	20N112	20O112	20P112
1-3/4"	20G134	20H134	20I134	20J134	20K134	20L134	20M134	20N134	20O134	20P134
2"	20G2	20H2	20I2	20J2	20K2	20L2	20M2	20N2	20O2	20P2
2-1/4"	20G214	20H214	20I214	20J214	20K214	20L214	20M214	20N214	20O214	20P214
2-1/2"	20G212	20H212	20I212	20J212	20K212	20L212	20M212	20N212	20O212	20P212
2-3/4"	20G234	20H234	20I234	20J234	20K234	20L234	20M234	20N234	20O234	20P234
3"	20G3	20H3	20I3	20J3	20K3	20L3	20M3	20N3	20O3	20P3
3-1/4"	20G314	20H314	20I314	20J314	20K314	20L314	20M314	20N314	20O314	20P314
3-1/2"	20G312	20H312	20I312	20J312	20K312	20L312	20M312	20N312	20O312	20P312
3-3/4"	20G334	20H334	20I334	20J334	20K334	20L334	20M334	20N334	20O334	20P334
4"	20G4	20H4	20I4	20J4	20K4	20L4	20M4	20N4	20O4	20P4
4-1/2"	20G412	20H412	20I412	20J412	20K412	20L412	20M412	20N412	20O412	20P412
5"	20G5	20H5	20I5	20J5	20K5	20L5	20M5	20N5	20O5	20P5
5-1/2"	20G512	20H512	20I512	20J512	20K512	20L512	20M512	20N512	20O512	20P512
6"	20G6	20H6	20I6	20J6	20K6	20L6	20M6	20N6	20O6	20P6

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Grade 5 U.S.S.



Carriage Bolts Grade 5, U.S.S., Zinc Plated					
Diameter Length	Part No.				
	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13
3/4"	475G34	475H34	475I34	–	–
1"	475G1	475H1	475I1	475J1	475K1
1-1/4"	475G114	475H114	475I114	475J114	475K114
1-1/2"	475G112	475H112	475I112	475J112	475K112
1-3/4"	475G134	475H134	475I134	475J134	475K134
2"	475G2	475H2	475I2	475J2	475K2
2-1/4"	475G214	475H214	475I214	475J214	475K214
2-1/2"	475G212	475H212	475I212	475J212	475K212
3"	475G3	475H3	475I3	475J3	475K3
3-1/2"	475G312	–	475I312	475J312	475K312
4"	475G4	475H4	475I4	475J4	475K4
4-1/2"	475G412	475H412	475I412	475J412	475K412
5"	475G5	475H5	475I5	475J5	475K5
6"	475G6	475H6	475I6	475J6	475K6

Hex Nut Grade 5 U.S.S., Coarse Thread Zinc Plated	
Dia.	Part No.
1/4" – 20	16G
5/16" – 18	16H
3/8" – 16	16I
7/16" – 14	16J
1/2" – 13	16K
9/16" – 12	16L
5/8" – 11	16M
3/4" – 10	16N
7/8" – 9	16O
1" – 8	16P



Plow Bolts, Grade 5 No. 3 Head - U.S.S., Plain Finish				
Diameter Length	Part No.			
	3/8"-16	7/16"-14	1/2"-13	5/8"-11
1"	203I1	–	–	–
1-1/4"	203I114	203J114	203K114	–
1-1/2"	203I112	203J112	203K112	203M112
1-3/4"	203I134	203J134	203K134	–
2"	203I2	203J2	203K2	203M2
2-1/4"	–	203J214	203K214	203M214
2-1/2"	203I212	203J212	203K212	203M212
2-3/4"	–	–	203K234	–
3"	–	203J3	203K3	203M3
3-1/2"	–	203J312	203K312	–
4"	–	–	203K4	–

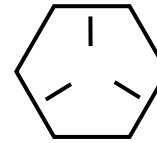


Flat Steel Washers Grade 5 U.S.S. Zinc Plated	
Dia. (in)	Part No.
1/4	10G
5/16	10H
3/8	10I
7/16	10J
1/2	10K
9/16	10L
5/8	10M
3/4	10N
7/8	10O
1	10P

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Grade 5, S.A.E. – Inch



Grade 5 S.A.E.

Flat Steel Washers Grade 5 S.A.E. Zinc Plated	
Dia. (in)	Part No.
1/4	11G
5/16	11H
3/8	11I
7/16	11J
1/2	11K
9/16	11L
5/8	11M
3/4	11N
7/8	11O
1	11P

Hex Nuts Grade 5 S.A.E., Fine Thread Zinc Plated	
Dia.	Part No.
1/4" – 28	12G
5/16" – 24	12H
3/8" – 24	12I
7/16" – 20	12J
1/2" – 20	12K
9/16" – 18	12L
5/8" – 18	12M
3/4" – 16	12N
7/8" – 14	12O
1" – 14	12PF

- Grade 5 Cap Screws are medium strength fasteners made with a medium carbon or low alloy steel and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specific tions
- ASTM A354
- SAE J429
- Dimensions ANSI B18.2.1



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Hex Head Cap Screws Grade 5, S.A.E. Fine Thread, Zinc Plated										
Diameter Length	Part No.									
	1/4" – 28	5/16" – 24	3/8" – 24	7/16" – 20	1/2" – 20	9/16" - 18	5/8" – 18	3/4" – 16	7/8" – 14	1" – 14
1/2"	19G12	19H12	19I12	–	–	–	–	–	–	–
5/8"	19G58	–	19I58	–	–	–	–	–	–	–
3/4"	19G34	19H34	19I34	19J34	19K34	–	–	–	–	–
7/8"	19G78	19H78	19I78	19J78	19K78	–	–	–	–	–
1"	19G1	19H1	19I1	19J1	19K1	19L1	19M1	–	–	–
1-1/4"	19G114	19H114	19I114	19J114	19K114	19L114	19M114	–	–	–
1-1/2"	19G112	19H112	19I112	19J112	19K112	19L112	19M112	19N112	19O112	19P112
1-3/4"	19G134	19H134	19I134	19J134	19K134	19L134	19M134	19N134	19O134	19P134
2"	19G2	19H2	19I2	19J2	19K2	19L2	19M2	19N2	19O2	19P2
2-1/4"	19G214	19H214	19I214	19J214	19K214	19L214	19M214	19N214	19O214	19P214
2-1/2"	19G212	19H212	19I212	19J212	19K212	19L212	19M212	19N212	19O212	19P212
2-3/4"	19G234	19H234	19I234	19J234	19K234	19L234	19M234	19N234	19O234	19P234
3"	19G3	19H3	19I3	19J3	19K3	19L3	19M3	19N3	19O3	19P3
3-1/2"	19G312	19H312	19I312	19J312	19K312	19L312	19M312	19N312	19O312	19P312
4"	19G4	19H4	19I4	19J4	19K4	19L4	19M4	19N4	19O4	19P4
4-1/2"	19G412	19H412	19I412	19J412	19K412	19L412	19M412	19N412	19O412	19P412
5"	19G5	19H5	19I5	19J5	19K5	19L5	19M5	19N5	19O5	19P5
5-1/2"	19G512	19H512	19I512	19J512	19K512	19L512	19M512	19N512	19O512	19P512
6"	19G6	19H6	19I6	19J6	19K6	19L6	19M6	19N6	19O6	19P6



Lock Washer Split Zinc Plated	
Dia.	Part No.
#4	34B
#6	34C
#8	34D
#10	34E
#12	34F
1/4"	34G
5/16"	34H
3/8"	34I
7/16"	34J
1/2"	34K
9/16"	34L
5/8"	34M
3/4"	34N
7/8"	34O
1"	34P

For use with Grade 5 Cap Screws.



Lock Washer Split Heavy-Duty Zinc Plated	
Dia. (in)	Part No.
1/4	25G
5/16	25H
3/8	25I
7/16	25J
1/2	25K
9/16	25L
5/8	25M
3/4	25N
7/8	25O
1	25P

For use with Grade 8 Cap Screws.

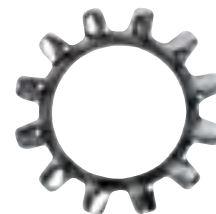


Lock Washer Split High Collar	
Dia.	Part No.
#6	26C
#8	26D
#10	26E
1/4"	26G
5/16"	26H
3/8"	26I
7/16"	26J
1/2"	26K
9/16"	26L
5/8"	26M
3/4"	26N

For use with Socket Head Cap Screws.



Lock Washer-External Tooth Countersunk Zinc Plated	
Dia.	Part No.
#6	32CCS
#8	32DCS
#10	32ECS
#12	32FCS
1/4"	32GCS
5/16"	32HCS
3/8"	32ICS
7/16"	32JCS
1/2"	32KCS



Lock Washer-External Tooth Zinc Plated	
Dia.	Part No.
#6	32C
#8	32D
#10	32E
#12	32F
1/4"	32G
5/16"	32H
3/8"	32I
7/16"	32J
1/2"	32K
5/8"	32M
3/4"	32N



Lock Washer-Internal Tooth Zinc Plated	
Dia.	Part No.
#6	37C
#8	37D
#10	37E
#12	37F
1/4"	37G
5/16"	37H
3/8"	37I
7/16"	37J
1/2"	37K
5/8"	37M
3/4"	37N
1"	37P



Washers – Inch



Large O.D.



Small O.D.



Flat Washer Nylon Spacer		
Dia.	O.D.	Part No.
#4	1/4"	54B
#6	5/16"	54C
#8	3/8"	54D
#10	7/16"	54E
1/4"	1/2"	54GS
1/4"	1-1/16"	54GL
5/16"	1/2"	54HS
5/16"	7/8"	54HL
3/8"	5/8"	54IS
3/8"	1"	54IL
1/2"	3/4"	54KS
1/2"	1-1/4"	54KL
5/8"	1-1/2"	54ML

Fender Washers Zinc Plated		
I.D.	O.D.	Part No.
1/8"	9/16"	39C
3/16"	1"	39E
1/4"	1-1/4"	39F
1/4"	1-1/2"	39G
5/16"	1-1/2"	39H
3/8"	1-1/2"	39I
1/2"	2"	39K

Steel Flat Washer Grade 2, S.A.E. Zinc Plated	
Dia.	Part No.
#4	36B
#6	36C
#8	36D
#10	36E
#12	36F
1/4"	36G

Brass Flat Washer	
Dia.	Part No.
#4	40B
#6	40C
#8	40D
#10	40E
#12	40F
1/4"	40G

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Hex Nuts Slotted Grade 2, Zinc Plated			
Coarse Thread		Fine Thread	
Dia.	Part No.	Dia.	Part No.
1/4" – 20	15G	3/8" – 24	18I
5/16" – 18	15H	7/16" – 20	18J
3/8" – 16	15I	1/2" – 20	18K
7/16" – 14	15J	9/16" – 18	18L
1/2" – 13	15K	5/8" – 18	18M
9/16" – 12	15L	3/4" – 16	18N
5/8" – 11	15M	7/8" – 14	18O
3/4" – 10	15N	1" – 14	18P
7/8" – 9	15O		
1" – 8	15P		

Nylon Insert Self-Locking Hex Nuts Grade 2, Zinc Plated			
Coarse Thread		Fine Thread	
Dia.	Part No.	Dia.	Part No.
#4 – 40	13B	#10 – 32	13EF
#6 – 32	13C	1/4" – 28	17G
#8 – 32	13D	5/16" – 24	17H
#10 – 24	13E	3/8" – 24	17I
1/4" – 20	13G	7/16" – 20	17J
5/16" – 18	13H	1/2" – 20	17K
3/8" – 16	13I	9/16" – 18	17L
7/16" – 14	13J	5/8" – 18	17M
1/2" – 13	13K	3/4" – 16	17N
9/16" – 12	13L	7/8" – 14	17O
5/8" – 11	13M	1" – 14	17P
3/4" – 10	13N		
7/8" – 9	13O		
1" – 8	13P		
1-1/4" – 7	13Q		



Machine Screw Hex Nuts Grade 2, Zinc Plated	
Dia.	Part No.
#4 – 40	Ø8B
#6 – 32	Ø8C
#8 – 32	Ø8D
#10 – 24	Ø8E
#10 – 32	Ø8EF
#12 – 24	Ø8F
1/4" – 20	Ø8G

KEK Nuts Grade 2, Zinc Plated	
Dia.	Part No.
#4 – 40	42B
#6 – 32	42C
#8 – 32	42D
#10 – 24	42E
#10 – 32	42EF
1/4" – 20	42G
5/16" – 18	42H
3/8" – 16	42I

Brass Hex Nuts	
Dia.	Part No.
#4 – 40	Ø4B
#6 – 32	Ø4C
#8 – 32	Ø4D
#10 – 24	Ø4E
#10 – 32	Ø4EF
#12 – 24	Ø4F
1/4" – 20	Ø4G
1/4" – 28	Ø4GF
5/16" – 24	Ø4HF
3/8" – 24	Ø4IF



Nuts – Inch



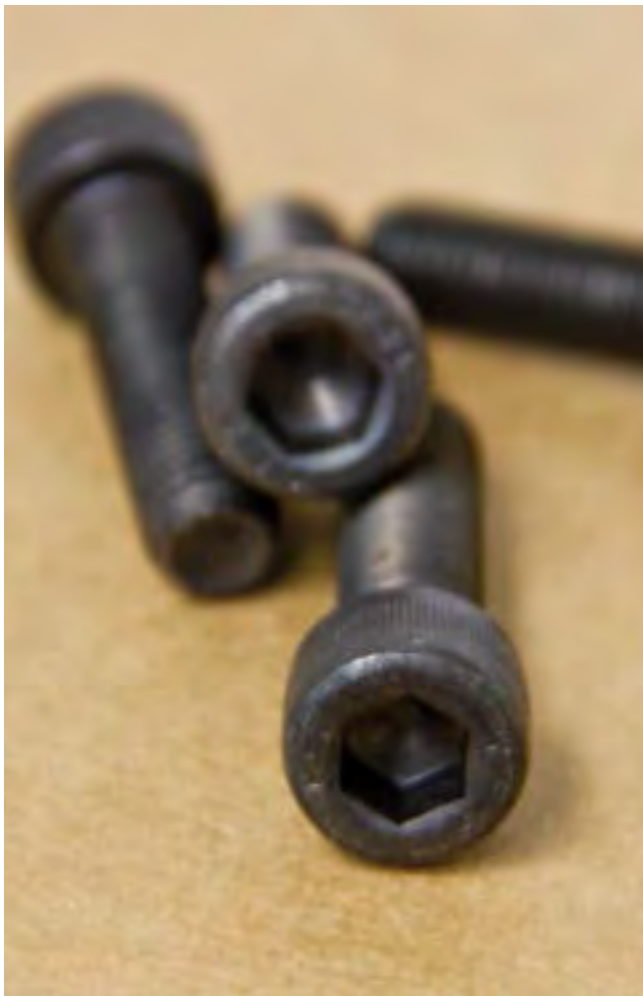
Low Profile Nylon Insert Self-locking Hex Nuts, Grade 2, Zinc Plated

- Also called Jam Locknuts
- Approximately half the height of a standard nut
- Can be used individually where clearance is limited or in conjunction with a regular nut for extra resistance to loosening from vibration

Jam Nuts Grade 2, Zinc Plated			
Coarse Thread		Fine Thread	
Dia.	Part No.	Dia.	Part No.
1/4" – 20	16GJN	1/4" – 28	12GJN
5/16" – 18	16HJN	5/16" – 24	12HJN
3/8" – 16	16IJN	3/8" – 24	12IJN
7/16" – 14	16JJN	7/16" – 20	12JJN
1/2" – 13	16KJN	1/2" – 20	12KJN
9/16" – 12	16LJN	9/16" – 18	12LJN
5/8" – 11	16MJN	5/8" – 18	12MJN
3/4" – 10	16NJN	3/4" – 16	12NJN
7/8" – 9	16OJN	7/8" – 14	12OJN
1" – 8	16PJN	1" – 14	12PJN

Low Profile Nylon Insert Self-locking Hex Nuts Grade 2, Zinc Plated			
Coarse Thread		Fine Thread	
Dia.	Part No.	Dia.	Part No.
#4 – 40	513B	1/4" – 28	517G
#6 – 32	513C	5/16" – 24	517H
#8 – 32	513D	3/8" – 24	517I
#10 – 24	513E	7/16" – 20	517J
#10 – 32	513EF	1/2" – 20	517K
1/4" – 20	513G	5/8" – 18	517M
5/16" – 18	513H	3/4" – 16	517N
3/8" – 16	513I		
7/16" – 14	513J		
1/2" – 13	513K		
5/8" – 11	513M		
3/4" – 10	513N		

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Wing Nuts Grade 2, Zinc Plated	
Dia.	Part No.
#6 – 32	14C
#8 – 32	14D
#10 – 24	14E
#10 – 32	14EF
1/4" – 20	14G
5/16" – 18	14H
3/8" – 16	14I
7/16" – 14	14J
1/2" – 13	14K

Acorn Nuts Grade 2, Zinc Plated	
Dia.	Part No.
#6 – 32	59C
#8 – 32	59D
#10 – 24	59E
#10 – 32	59EF
1/4" – 20	59G
5/16" – 18	59H
3/8" – 16	59I
1/2" – 13	59K



Socket Head Cap Screws Coarse Thread, Plain Finish										
Diameter Length	Part No.									
	#6–32	#8–32	#10–24	1/4"–20	5/16"–18	3/8"–16	7/16"–14	1/2"–13	5/8"–11	3/4"–10
1/4"	38C14	38D14	–	–	–	–	–	–	–	–
3/8"	38C38	38D38	38E38	38G38	–	–	–	–	–	–
1/2"	38C12	38D12	38E12	38G12	38H12	38I12	38J12	38K12	–	–
5/8"	38C58	38D58	38E58	38G58	38H58	38I58	38J58	38K58	–	–
3/4"	38C34	38D34	38E34	38G34	38H34	38I34	38J34	38K34	–	–
7/8"	–	–	38E78	38G78	38H78	38I78	38J78	38K78	–	–
1"	38C1	38D1	38E1	38G1	38H1	38I1	38J1	38K1	38M1	–
1-1/4"	38C114	38D114	38E114	38G114	38H114	38I114	38J114	38K114	38M114	–
1-1/2"	38C112	38D112	38E112	38G112	38H112	38I112	38J112	38K112	38M112	38N112
1-3/4"	38C134	38D134	38E134	38G134	38H134	38I134	38J134	38K134	38M134	38N134
2"	38C2	38D2	38E2	38G2	38H2	38I2	38J2	38K2	38M2	38N2
2-1/4"	–	–	–	38G214	38H214	38I214	38J214	38K214	38M214	38N214
2-1/2"	–	–	–	38G212	38H212	38I212	38J212	38K212	38M212	38N212
2-3/4"	–	–	–	–	–	–	38J234	–	38M234	38N234
3"	–	–	–	38G3	38H3	38I3	38J3	38K3	38M3	38N3
3-1/4"	–	–	–	38G314	38H314	38I314	38J314	38K314	38M314	38N314
3-1/2"	–	–	–	38G312	38H312	38I312	38J312	–	38M312	38N312
3-3/4"	–	–	–	–	–	38I334	38J334	38K334	–	–
4"	–	–	–	–	–	38I4	38J4	38K4	38M4	38N4
4-1/2"	–	–	–	–	–	–	–	38K412	38M412	38N412
5"	–	–	–	–	–	–	–	38K5	38M5	38N5
5-1/2"	–	–	–	–	–	–	–	38K512	38M512	38N512
6"	–	–	–	–	–	–	–	–	38M6	38N6



Socket Head Cap Screws Fine Thread, Plain Finish						
Diameter Length	Part No.					
	#10–32	1/4"–28	5/16"–24	3/8"–24	1/2"–20	5/8"–18
3/8"	38EF38	–	–	–	–	–
1/2"	38EF12	57G12	57H12	57I12	–	–
5/8"	38EF58	57G58	57H58	57I58	–	–
3/4"	38EF34	57G34	57H34	57I34	–	–
7/8"	38EF78	57G78	57H78	57I78	–	–
1"	38EF1	57G1	57H1	57I1	57K1	57M1
1-1/4"	38EF114	57G114	57H114	57I114	57K114	57M114
1-1/2"	38EF112	57G112	57H112	57I112	57K112	57M112
1-3/4"	38EF134	57G134	57H134	57I134	57K134	–
2"	38EF2	57G2	57H2	57I2	57K2	57M2
2-1/2"	38EF212	–	–	57I212	57K212	–
3"	38EF3	–	–	57I3	57K3	–



Socket Head Cap Screws Plain Finish

- Tensile strength: 180,000 PSI (up to and including 1/2" diameter); 170,000 PSI (5/8" diameter and above).
- Conforms to ANSI B18.3 and ASTM A574 Specific tions.



Socket Head Screws – Inch

 = Fine Thread



Flat Head Socket Cap Screws Plain Finish										
Diameter Length	Part No.									
	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	3/4"-10
1/4"	48C14	-	-	-	-	-	-	-	-	-
3/8"	48C38	48D38	-	-	-	-	-	-	-	-
1/2"	48C12	48D12	48E12	48EF12	48G12	48H12	-	-	-	-
3/4"	48C34	48D34	48E34	48EF34	48G34	48H34	48I34	-	-	-
5/8"	48C58	48D58	48E58	48EF58	48G58	48H58	48I58	-	-	-
1"	48C1	48D1	48E1	48EF1	48G1	48H1	48I1	48K1	-	-
1-1/4"	-	48D114	48E114	48EF114	48G114	48H114	48I114	48K114	-	-
1-1/2"	-	48D112	48E112	48EF112	48G112	48H112	48I112	48K112	48M112	-
1-3/4"	-	-	-	-	48G134	48H134	48I134	48K134	48M134	-
2"	-	-	-	-	48G2	48H2	48I2	48K2	48M2	48N2
2-1/4"	-	-	-	-	-	-	48I214	48K214	48M214	48N214
2-1/2"	-	-	-	-	-	-	48I212	48K212	48M212	48N212
3"	-	-	-	-	-	-	48I3	48K3	48M3	48N3

Button Head Socket Cap Screws Plain Finish

- For light fastening applications such as guards, hinges, cover plates, etc., where appearance is important.
- Conforms to ANSI B18.3 and Federal FF-S-86 Specific tions.



 = Fine Thread

Diameter Length	Part No.								
	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11
1/4"	58C14	58D14	-	-	-	-	-	-	-
3/8"	58C38	58D38	58E38	58EF38	-	-	-	-	-
1/2"	58C12	58D12	58E12	58EF12	58G12	58H12	58I12	-	-
5/8"	58C58	58D58	58E58	58EF58	58G58	58H58	58I58	-	-
3/4"	58C34	58D34	58E34	58EF34	58G34	58H34	58I34	-	-
7/8"	58C78	58D78	58E78	58EF78	58G78	58H78	58I78	-	58M78
1"	58C1	58D1	58E1	58EF1	58G1	58H1	58I1	58K1	58M1
1-1/4"	58C114	58D114	58E114	58EF114	58G114	58H114	58I114	58K114	58M114
1-1/2"	58C112	58D112	58E112	58EF112	58G112	58H112	58I112	58K112	58M112
1-3/4"	58C134	58D134	58E134	58EF134	58G134	58H134	58I134	58K134	58M134
2"	58C2	58D2	58E2	58EF2	58G2	58H2	58I2	58K2	58M2
2-1/4"	-	-	-	-	-	58H214	58I214	58K214	58M214
2-1/2"	-	-	-	-	58G212	58H212	58I212	58K212	58M212
2-3/4"	-	-	-	-	-	-	58I234	-	-
3"	-	-	-	-	58G3	58H3	58I3	58K3	58M3
3-1/2"	-	-	-	-	-	-	58I312	58K312	-
4"	-	-	-	-	-	-	-	58K4	-



Socket Set Screws Coarse Thread, Cup Point, Plain Finish										
Diameter Length	Part No.									
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	1/4" – 20	5/16" – 18	3/8" – 16	1/2" – 13	5/8" – 11	3/4" – 10
1/8"	51B18	51C18	51D18	–	–	–	–	–	–	–
3/16"	51B316	51C316	51D316	51E316	51G316	–	–	–	–	–
1/4"	51B14	51C14	51D14	51E14	51G14	51H14	–	–	–	–
5/16"	51B516	51C516	51D516	51E516	51G516	51H516	51I516	–	–	–
3/8"	51B38	51C38	51D38	51E38	51G38	51H38	51I38	51K38	–	–
7/16"	51B716	51C716	51D716	51E716	51G716	51H716	51I716	–	–	–
1/2"	51B12	51C12	51D12	51E12	51G12	51H12	51I12	51K12	51M12	–
5/8"	–	51C58	51D58	51E58	51G58	51H58	51I58	51K58	51M58	–
3/4"	51B34	51C34	51D34	51E34	51G34	51H34	51I34	51K34	51M34	51N34
7/8"	51B78	51C78	–	51E78	51G78	51H78	51I78	51K78	–	–
1"	51B1	51C1	51D1	51E1	51G1	51H1	51I1	51K1	51M1	51N1
1-1/4"	–	–	–	51E114	51G114	51H114	51I114	51K114	51M114	–
1-1/2"	–	–	–	51E112	51G112	51H112	51I112	51K112	51M112	–
1-3/4"	–	–	–	–	51G134	51H134	51I134	51K134	51M134	–
2"	–	–	–	–	51G2	51H2	51I2	51K2	51M2	–
2-1/4"	–	–	–	–	–	–	51I214	51K214	51M214	–
2-1/2"	–	–	–	–	–	–	51I212	51K212	51M212	–
2-3/4"	–	–	–	–	–	–	–	51K234	51M234	–
3"	–	–	–	–	–	–	–	51K3	51M3	–
3-1/4"	–	–	–	–	–	–	–	–	51M314	–
3-1/2"	–	–	–	–	–	–	–	–	51M312	–
4"	–	–	–	–	–	–	–	–	51M4	–



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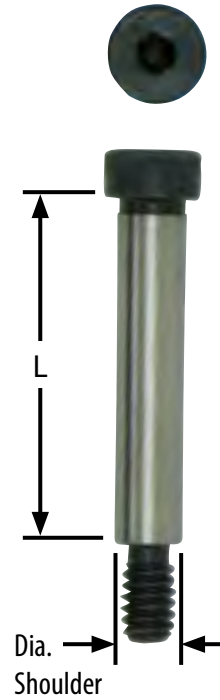
Socket Set Screws Fine Thread Cup Point, Plain Finish					
Diameter Length	Part No.				
	#10–32	1/4" – 28	5/16" – 24	3/8" – 24	1/2" – 20
3/16"	51EF316	–	–	–	–
1/4"	51EF14	52G14	–	–	–
5/16"	51EF516	52G516	52H516	–	–
3/8"	51EF38	52G38	52H38	52I38	–
7/16"	51EF716	–	–	–	–
1/2"	51EF12	52G12	52H12	52I12	52K12
5/8"	51EF58	52G58	52H58	52I58	52K58
3/4"	51EF34	52G34	52H34	52I34	52K34
7/8"	51EF78	–	–	–	–
1"	51EF1	52G1	52H1	52I1	52K1
1-1/4"	51EF114	–	–	–	–





Socket Head Screws – Inch


Socket Head Shoulder Screws							
Shoulder Length (in)	Part No.						Shoulder Dia. Thread Dia. - TPI
	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	
	#10-24	1/4"-20	5/16"-18	3/8"-16	1/2"-13	5/8"-11	
3/8	488G38	488H38	488I38	–	–	–	
1/2	488G12	488H12	488I12	488K12	–	–	
5/8	488G58	488H58	488I58	488K58	–	–	
3/4	488G34	488H34	488I34	488K34	–	–	
1	488G1	488H1	488I1	488K1	–	–	
1-1/4	488G114	488H114	488I114	488K114	488M114	–	
1-1/2	488G112	488H112	488I112	488K112	488M112	488N112	
1-3/4	–	488H134	488I134	488K134	488M134	488N134	
2	–	488H2	488I2	488K2	488M2	488N2	
2-1/4	–	–	488I214	488K214	488M214	–	
2-1/2	–	–	488I212	488K212	488M212	488N212	
2-3/4	–	–	488I234	488K234	–	–	
3	–	–	488I3	488K3	488M3	488N3	
3-1/4	–	–	488I314	488K314	–	–	
3-1/2	–	–	488I312	488K312	488M312	488N312	
3-3/4	–	–	488I334	488K334	–	–	
4	–	–	488I4	488K4	488M4	–	
4-1/4	–	–	–	488K414	–	–	
4-1/2	–	–	–	488K412	488M412	–	
4-3/4	–	–	–	488K434	–	–	
5	–	–	–	488K5	–	–	



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 = Fine Thread

Flange Bolts Grade 2, Serrated, Zinc Plated								
Diameter Length	Part No.							
	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	1/2"-13
1/4"	476C14	476D14	–	–	–	–	–	–
3/8"	476C38	476D38	476E38	476EF38	476G38	–	–	–
1/2"	476C12	476D12	476E12	476EF12	476G12	476H12	476I12	–
5/8"	476C58	476D58	476E58	476EF58	476G58	476H58	476I58	–
3/4"	476C34	476D34	476E34	476EF34	476G34	476H34	476I34	476K34
1"	476C1	476D1	476E1	476EF1	476G1	476H1	476I1	476K1
1-1/4"	–	–	476E114	476EF114	476G114	476H114	476I114	476K114
1-1/2"	–	476D112	476E112	476EF112	476G112	476H112	476I112	476K112
1-3/4"	–	–	–	–	476G134	476H134	476I134	476K134
2"	–	–	476E2	–	476G2	476H2	476I2	476K2
2-1/2"	–	–	–	–	476G212	476H212	476I212	476K212
3"	–	–	–	–	476G3	476H3	476I3	476K3



Carriage Bolts Grade 2, Zinc Plated							
Diameter Length	Part No.						
	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	5/8"-11	3/4"-10
1/2"	47G12	–	–	–	–	–	–
3/4"	47G34	47H34	47I34	47J34	–	–	–
1"	47G1	47H1	47I1	47J1	47K1	–	–
1-1/2"	47G112	47H112	47I112	47J112	47K112	47M112	–
2"	47G2	47H2	47I2	47J2	47K2	47M2	47N2
2-1/2"	47G212	47H212	47I212	47J212	47K212	47M212	47N212
3"	47G3	47H3	47I3	47J3	47K3	47M3	47N3
3-1/2"	47G312	47H312	47I312	47J312	47K312	47M312	47N312
4"	47G4	47H4	47I4	47J4	47K4	47M4	47N4
4-1/2"	47G412	47H412	47I412	47J412	47K412	47M412	47N412
5"	47G5	47H5	47I5	47J5	47K5	47M5	47N5
5-1/2"	47G512	47H512	47I512	–	47K512	47M512	47N512
6"	47G6	47H6	47I6	47J6	47K6	47M6	47N6

Flanged Nuts Grade 2, Serrated, Zinc Plated	
Dia.	Part No.
#6-32	477C
#8-32	477D
#10-24	477E
#10-32	477EF
1/4"-20	477G
5/16"-18	477H
3/8"-16	477I
7/16"-14	477J
1/2"-13	477K
5/8"-11	477M
3/4"-10	477N



Machine Screws – Inch



 = Fine Thread

Slotted Round Head Machine Screws Zinc Plated							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	Ø1B14	Ø1C14	Ø1D14	Ø1E14	Ø1EF14	–	–
3/8"	Ø1B38	Ø1C38	Ø1D38	Ø1E38	Ø1EF38	Ø1F38	Ø1G38
1/2"	Ø1B12	Ø1C12	Ø1D12	Ø1E12	Ø1EF12	Ø1F12	Ø1G12
5/8"	Ø1B58	Ø1C58	Ø1D58	Ø1E58	Ø1EF58	Ø1F58	Ø1G58
3/4"	Ø1B34	Ø1C34	Ø1D34	Ø1E34	Ø1EF34	Ø1F34	Ø1G34
7/8"	Ø1B78	Ø1C78	Ø1D78	Ø1E78	Ø1EF78	–	Ø1G78
1"	Ø1B1	Ø1C1	Ø1D1	Ø1E1	Ø1EF1	Ø1F1	Ø1G1
1-1/4"	Ø1B114	Ø1C114	Ø1D114	Ø1E114	Ø1EF114	Ø1F114	Ø1G114
1-1/2"	Ø1B112	Ø1C112	Ø1D112	Ø1E112	Ø1EF112	Ø1F112	Ø1G112
1-3/4"	–	–	–	–	–	Ø1F134	–
2"	–	Ø1C2	Ø1D2	Ø1E2	Ø1EF2	Ø1F2	Ø1G2
2-1/4"	–	Ø1C214	Ø1D214	Ø1E214	Ø1EF214	–	–
2-1/2"	–	Ø1C212	–	–	Ø1EF212	Ø1F212	–
2-3/4"	–	–	Ø1D234	Ø1E234	Ø1EF234	–	Ø1G234
3"	–	–	–	–	Ø1EF3	Ø1F3	–
3-1/4"	–	–	–	–	–	–	Ø1G314
3-1/2"	–	–	–	–	–	–	Ø1G312
3-3/4"	–	–	–	–	–	–	Ø1G334
4"	–	–	–	–	–	–	Ø1G4

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 = Fine Thread



Slotted Round Head Machine Screws Brass							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	Ø9B14	Ø9C14	Ø9D14	–	Ø9EF14	–	–
3/8"	Ø9B38	Ø9C38	Ø9D38	Ø9E38	Ø9EF38	Ø9F38	Ø9G38
1/2"	Ø9B12	Ø9C12	Ø9D12	Ø9E12	Ø9EF12	Ø9F12	Ø9G12
5/8"	Ø9B58	Ø9C58	Ø9D58	Ø9E58	Ø9EF58	Ø9F58	Ø9G58
3/4"	Ø9B34	Ø9C34	Ø9D34	Ø9E34	Ø9EF34	Ø9F34	Ø9G34
1"	Ø9B1	Ø9C1	Ø9D1	Ø9E1	Ø9EF1	Ø9F1	Ø9G1
1-1/4"	Ø9B114	Ø9C114	Ø9D114	Ø9E114	Ø9EF114	Ø9F114	Ø9G114
1-1/2"	Ø9B112	Ø9C112	Ø9D112	Ø9E112	Ø9EF112	Ø9F112	Ø9G112
2"	–	Ø9C2	Ø9D2	Ø9E2	Ø9EF2	Ø9F2	Ø9G2



= Fine Thread

Slotted Pan Head Machine Screws Zinc Plated								
Diameter Length	Part No.							
	#4– 40	#6– 32	#8– 32	#10– 24	#10– 32	#12– 24	1/4"– 20	5/16"– 18
1/4"	049B14	049C14	049D14	049E14	049EF14	–	–	–
3/8"	049B38	049C38	049D38	049E38	049EF38	049F38	049G38	–
1/2"	049B12	049C12	049D12	049E12	049EF12	049F12	049G12	049H12
5/8"	049B58	049C58	049D58	049E58	049EF58	049F58	049G58	–
3/4"	049B34	049C34	049D34	049E34	049EF34	049F34	049G34	049H34
1"	049B1	049C1	049D1	049E1	049EF1	049F1	049G1	049H1
1-1/4"	049B114	049C114	049D114	049E114	049EF114	049F114	049G114	–
1-1/2"	049B112	049C112	049D112	049E112	049EF112	049F112	049G112	–
1-3/4"	–	049C134	049D134	049E134	049EF134	–	049G134	–
2"	–	049C2	049D2	049E2	049EF2	049F2	049G2	–
2-1/2"	–	–	049D212	049E212	–	–	049G212	–
3"	–	–	049D3	049E3	–	–	049G3	–



Phillips Pan Head Machine Screws Zinc Plated							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	05B14	05C14	05D14	05E14	05EF14	–	–
3/8"	05B38	05C38	05D38	05E38	05EF38	–	05G38
1/2"	05B12	05C12	05D12	05E12	05EF12	05F12	05G12
5/8"	05B58	05C58	05D58	05E58	05EF58	–	05G58
3/4"	05B34	05C34	05D34	05E34	05EF34	05F34	05G34
7/8"	05B78	05C78	05D78	05E78	05EF78	05F78	05G78
1"	05B1	05C1	05D1	05E1	05EF1	05F1	05G1
1-1/4"	05B114	05C114	05D114	05E114	05EF114	–	05G114
1-1/2"	–	05C112	05D112	05E112	05EF112	–	05G112
1-3/4"	–	–	05D134	05E134	05EF134	05F134	05G134
2"	–	05C2	05D2	05E2	05EF2	05F2	05G2
2-1/4"	–	05C214	05D214	05E214	05EF214	–	05G214
2-1/2"	–	05C212	–	05E212	05EF212	05F212	05G212
2-3/4"	–	–	05D234	05E234	–	–	05G234
3"	–	–	05D3	05E3	05EF3	05F3	05G3
3-1/4"	–	–	–	–	–	–	05G314
3-1/2"	–	–	05D312	05E312	05EF312	–	05G312
3-3/4"	–	–	–	–	–	–	05G334
4"	–	–	05D4	05E4	05EF4	–	05G4
4-1/2"	–	–	05D412	05E412	05EF412	–	05G412
5"	–	–	05D5	05E5	05EF5	–	05G5
6"	–	–	05D6	05E6	–	–	05G6





Machine Screws – Inch

☐ = Fine Thread

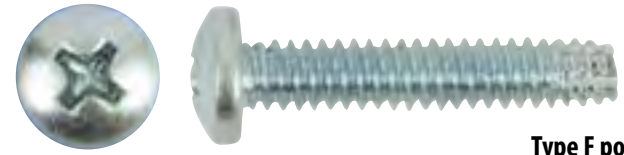


Phillips Flat Head Machine Screws Zinc Plated							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	06B14	06C14	06D14	–	–	–	–
3/8"	06B38	06C38	06D38	06E38	06EF38	–	06G38
1/2"	06B12	06C12	06D12	06E12	06EF12	–	06G12
5/8"	06B58	06C58	06D58	06E58	06EF58	–	06G58
3/4"	06B34	06C34	06D34	06E34	06EF34	–	06G34
7/8"	06B78	06C78	06D78	06E78	06EF78	06F78	06G78
1"	06B1	06C1	06D1	06E1	06EF1	–	06G1
1-1/4"	–	06C114	06D114	06E114	06EF114	–	06G114
1-1/2"	–	–	06D112	06E112	06EF112	–	06G112
1-3/4"	–	–	–	–	–	06F134	–
2"	–	–	–	06E2	06EF2	–	06G2
2-1/4"	–	06C214	06D214	06E214	06EF214	–	06G214
2-1/2"	–	06C212	–	–	06EF212	06F212	–
2-3/4"	–	–	06D234	06E234	06EF234	–	06G234
3"	–	–	–	–	06EF3	06F3	–
3-1/4"	–	–	–	–	–	–	06G314
3-1/2"	–	–	–	–	–	–	06G312
3-3/4"	–	–	–	–	–	–	06G334
4"	–	–	–	–	–	–	06G4

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Slotted Flat Head Machine Screws Zinc Plated							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	02B14	02C14	02D14	02E14	02EF14	–	–
3/8"	02B38	02C38	02D38	02E38	02EF38	–	02G38
1/2"	02B12	02C12	02D12	02E12	02EF12	02F12	02G12
5/8"	02B58	02C58	02D58	02E58	02EF58	–	02G58
3/4"	02B34	02C34	02D34	02E34	02EF34	02F34	02G34
7/8"	02B78	02C78	02D78	02E78	02EF78	02F78	02G78
1"	02B1	02C1	02D1	02E1	02EF1	02F1	02G1
1-1/4"	02B114	02C114	02D114	02E114	02EF114	02F114	02G114
1-1/2"	–	02C112	02D112	02E112	02EF112	02F112	02G112
2"	–	02C2	02D2	02E2	02EF2	–	02G2
2-1/4"	–	–	02D214	02E214	02EF214	–	02G214
2-1/2"	–	02C212	–	–	02EF212	02F212	–
2-3/4"	–	–	02D234	02E234	02EF234	–	02G234
3"	–	–	–	–	02EF3	02F3	–
3-1/4"	–	–	–	–	–	–	02G314
3-1/2"	–	–	–	–	–	–	02G312
4"	–	–	–	–	–	–	02G4




Type F point

Phillips Pan Head Thread Cutting Screws Zinc Plated				
Diameter Length	Part No.			
	#6 – 32	#8 – 32	#10 – 24	1/4" – 20
3/8"	279C38	279D38	279E38	–
1/2"	279C12	279D12	279E12	279G12
5/8"	279C58	279D58	–	–
3/4"	279C34	279D34	279E34	279G34
1"	279C1	279D1	279E1	279G1
1-1/4"	–	–	279E114	279G114
1-1/2"	–	–	279E112	–



Type F point

 = Fine Thread

Slotted Hex Washer Head Thread Cutting Screws Zinc Plated								
Diameter Length	Part No.							
	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20	5/16" – 18	3/8" – 16
1/4"	49C14	–	–	–	–	–	–	–
3/8"	49C38	49D38	49E38	49EF38	–	–	–	–
1/2"	49C12	49D12	49E12	49EF12	–	49G12	49H12	49I12
5/8"	–	49D58	49E58	49EF58	–	49G58	49H58	49I58
3/4"	49C34	49D34	49E34	49EF34	–	49G34	49H34	49I34
7/8"	–	–	–	–	–	49G78	–	–
1"	49C1	49D1	49E1	49EF1	49F1	49G1	49H1	49I1
1-1/4"	49C114	49D114	49E114	49EF114	–	49G114	49H114	49I114
1-1/2"	–	49D112	49E112	49EF112	–	49G112	49H112	49I112
1-3/4"	–	–	49E134	49EF134	–	49G134	49H134	–
2"	–	–	49E2	49EF2	–	49G2	49H2	49I2
2-1/4"	–	–	–	–	–	49G214	–	–
2-1/2"	–	–	–	–	–	49G212	49H212	49I212
3"	–	–	–	–	–	–	49H3	49I3



Sheet Metal Screws



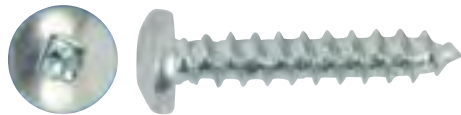
Slotted Pan Head Sheet Metal Screws Zinc Plated

Diameter Length	Part No.					
	#4	#6	#8	#10	#12	#14
1/4"	25B14	25C14	25D14	—	—	—
3/8"	25B38	25C38	25D38	25E38	—	—
1/2"	25B12	25C12	25D12	25E12	25F12	25G12
5/8"	25B58	25C58	25D58	25E58	25F58	25G58
3/4"	25B34	25C34	25D34	25E34	25F34	25G34
7/8"	—	—	—	25E78	25F78	25G78
1"	—	25C1	25D1	25E1	25F1	25G1
1-1/4"	—	25C114	25D114	25E114	25F114	25G114
1-1/2"	—	25C112	25D112	25E112	25F112	25G112
1-3/4"	—	—	—	25E134	25F134	25G134
2"	—	—	25D2	25E2	25F2	25G2
2-1/2"	—	—	—	—	—	25G212

Phillips Pan Head Sheet Metal Screws Zinc Plated

Diameter Length	Part No.					
	#4	#6	#8	#10	#12	#14
1/4"	27B14	27C14	—	—	—	—
3/8"	27B38	27C38	27D38	27E38	—	—
1/2"	27B12	27C12	27D12	27E12	27F12	27G12
5/8"	27B58	27C58	27D58	27E58	27F58	27G58
3/4"	27B34	27C34	27D34	27E34	27F34	27G34
1"	—	27C1	27D1	27E1	27F1	27G1
1-1/4"	—	27C114	27D114	27E114	27F114	27G114
1-1/2"	—	27C112	27D112	27E112	27F112	27G112
2"	—	—	—	27E2	27F2	27G2

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Square Drive Pan Head Tapping Screws Zinc Plated

Dia. Length	Part No.				
	#6	#8	#10	#12	#14
1/2"	299C12	299D12	299E12	—	—
5/8"	299C58	299D58	299E58	—	—
3/4"	299C34	299D34	299E34	299F34	299G34
1"	299C1	299D1	299E1	299F1	299G1
1-1/4"	299C114	299D114	299E114	299F114	299G114
1-1/2"	299C112	299D112	299E112	299F112	299G112
2"	—	—	299E2	299F2	299G2





Slotted Flat Head Sheet Metal Screws Zinc Plated					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
1/4"	24C14	–	–	–	–
3/8"	24C38	–	–	–	–
1/2"	24C12	24D12	24E12	–	–
5/8"	–	24D58	24E58	–	–
3/4"	24C34	24D34	24E34	24F34	–
1"	24C1	24D1	24E1	24F1	24G1
1-1/4"	–	24D114	24E114	–	–
1-1/2"	–	24D112	24E112	24F112	–
2"	–	–	24E2	–	–



Phillips Flat Head Sheet Metal Screws Zinc Plated					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	41C38	41D38	–	–	–
1/2"	41C12	41D12	41E12	–	–
5/8"	41C58	41D58	41E58	–	–
3/4"	41C34	41D34	41E34	41F34	41G34
1"	41C1	41D1	41E1	41F1	41G1
1-1/4"	41C114	41D114	41E114	41F114	41G114
1-1/2"	41C112	41D112	41E112	41F112	41G112
2"	–	41D2	41E2	41F2	41G2
2-1/2"	–	–	41E212	41F212	41G212
3"	–	–	41E3	41F3	41G3



Phillips Oval Head Sheet Metal Screws Zinc Plated						
Dia. Length	Part No.					
	#4	#6	#8	#10	#12	#14
1/4"	28B14	28C14	–	–	–	–
3/8"	28B38	28C38	28D38	28E38	–	–
1/2"	28B12	28C12	28D12	28E12	28F12	28G12
5/8"	28B58	28C58	28D58	28E58	28F58	28G58
3/4"	28B34	28C34	28D34	28E34	28F34	28G34
1"	–	28C1	28D1	28E1	28F1	28G1
1-1/4"	–	28C114	28D114	28E114	28F114	28G114
1-1/2"	–	28C112	28D112	28E112	28F112	28G112
2"	–	–	–	28E2	28F2	28G2



Slotted Hex Washer Head Sheet Metal Screws Zinc Plated						
Dia. Length	Part No.					
	#6	#8	#10	#12	#14	5/16"
1/4"	30C14	30D14	–	–	–	–
3/8"	30C38	30D38	30E38	–	–	–
1/2"	30C12	30D12	30E12	30F12	30G12	30H12
5/8"	30C58	30D58	30E58	30F58	30G58	–
3/4"	30C34	30D34	30E34	30F34	30G34	30H34
1"	30C1	30D1	30E1	30F1	30G1	30H1
1-1/4"	30C114	30D114	30E114	30F114	30G114	30H114
1-1/2"	30C112	30D112	30E112	30F112	30G112	30H112
1-3/4"	–	30D134	30E134	30F134	30G134	30H134
2"	30C2	30D2	30E2	30F2	30G2	30H2
2-1/4"	–	–	–	–	30G214	–
2-1/2"	–	–	–	–	30G212	30H212
3"	–	–	–	–	30G3	30H3
3-1/2"	–	–	–	–	30G312	–
4"	–	–	–	–	30G4	–



Lag & Drywall Screws

Lag Screws

Also known as lag bolts, these screws come in longer lengths than traditional wood screws. Screws are threaded at least two-thirds their length. Length is measured from under head.



Lag Screws, Hex Head Zinc Plated

Diameter Length	Part No.			
	1/4"-10	5/16"-9	3/8"-7	1/2"-6
1"	298G1	—	298I1	—
1-1/4"	298G114	—	298I114	—
1-1/2"	298G112	298H112	298I112	298K112
1-3/4"	298G134	298H134	298I134	298K134
2"	298G2	298H2	298I2	298K2
2-1/2"	298G212	298H212	298I212	298K212
3"	298G3	298H3	298I3	298K3
3-1/2"	298G312	298H312	298I312	298K312
4"	298G4	298H4	298I4	298K4
4-1/2"	298G412	—	298I412	298K412
5"	298G5	—	298I5	298K5
6"	—	—	—	298K6



Phillips Bugle Head Drywall Screws
Plain Finish

Length	Fine Thread		Coarse Thread		
	Dia.	Part No.	Length	Dia.	Part No.
1"	6	45C1	1"	6	45C1C
1-1/8"	6	45C118	1-1/4"	6	45C114C
1-1/4"	6	45C114	1-5/8"	6	45C158C
1-5/8"	6	45C158	2"	6	45C2C
2"	6	45C2	2-1/4"	6	45C214C
2-1/4"	6	45C214	2-1/2"	6	45C212C
2-1/2"	6	45C212	3"	8	45D3C
3"	8	45D3	—	—	—

For metal studs, use fine thread.
For wood studs, use coarse thread.





Flat Phillips Head Concrete Screw		Corresponding Drill Bit	
Size (in)	Part #	Size (in)	Part #
3/16 × 1-1/4	410E114	5/32 × 3-1/2	DBBTEX312
3/16 × 1-3/4	410E134	5/32 × 3-1/2	DBBTEX312
3/16 × 2-1/4	410E214	5/32 × 4-1/2	DBBTEX412
3/16 × 2-3/4	410E234	5/32 × 4-1/2	DBBTEX412
3/16 × 3-1/4	410E314	5/32 × 5-1/2	DBBTEX512
3/16 × 3-3/4	410E334	5/32 × 5-1/2	DBBTEX512
3/16 × 4	410E4	5/32 × 5-1/2	DBBTEX512
1/4 × 1-1/4	410G114	3/16 × 3-1/2	DBBTGX312
1/4 × 1-3/4	410G134	3/16 × 3-1/2	DBBTGX312
1/4 × 2-1/4	410G214	3/16 × 4-1/2	DBBTGX412
1/4 × 2-3/4	410G234	3/16 × 4-1/2	DBBTGX412
1/4 × 3-1/4	410G314	3/16 × 5-1/2	DBBTGX512
1/4 × 3-3/4	410G334	3/16 × 5-1/2	DBBTGX512
1/4 × 4	410G4	3/16 × 5-1/2	DBBTGX512

Concrete Screws

Concrete screws are ideal for use in concrete, brick or block base material. The threads of these screws actually cut threads into the base material providing excellent holding values. These screws are commonly called Tapcon®, Masonry, Cement or Blue Screws. Simple installation – drill the hole and drive the screw. The concrete screws come in two diameters – 3/16" and 1/4", and two different head styles – hex washer head and flat counter sunk Phillips.

The drivers to use with the different head style are:

- 3/16" Flat – #2 Phillips: #BD2PD
- 1/4" Flat – #3 Phillips: #BD3PD
- 3/16" Hex – 1/4" Socket: #MNS4
- 1/4" Hex – 5/16" Socket: #MNS5

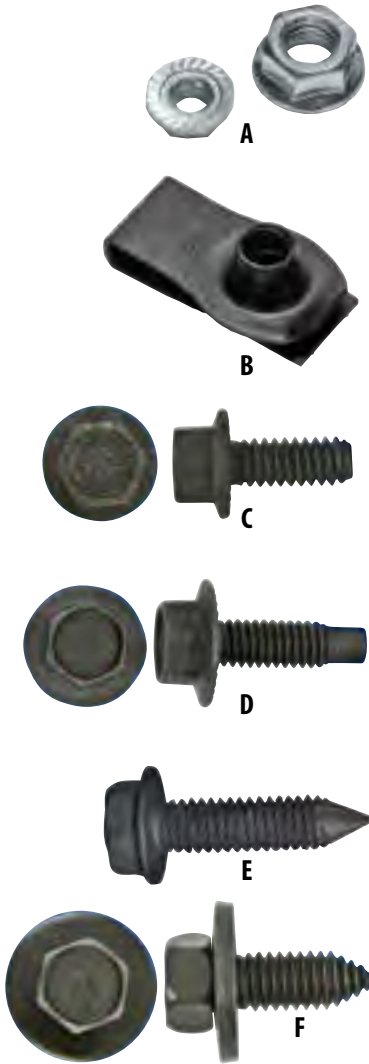


Hex Washer Head Concrete Screw		Corresponding Drill Bit	
Size (in)	Part #	Size (in)	Part #
3/16 × 1-1/4	300E114	5/32 × 3-1/2	DBBTEX312
3/16 × 1-3/4	300E134	5/32 × 3-1/2	DBBTEX312
3/16 × 2-1/4	300E214	5/32 × 4-1/2	DBBTEX412
3/16 × 2-3/4	300E234	5/32 × 4-1/2	DBBTEX412
3/16 × 3-1/4	300E314	5/32 × 5-1/2	DBBTEX512
3/16 × 3-3/4	300E334	5/32 × 5-1/2	DBBTEX512
3/16 × 4	300E4	5/32 × 5-1/2	DBBTEX512
1/4 × 1-1/4	300G114	3/16 × 3-1/2	DBBTGX312
1/4 × 1-3/4	300G134	3/16 × 3-1/2	DBBTGX312
1/4 × 2-1/4	300G214	3/16 × 4-1/2	DBBTGX412
1/4 × 2-3/4	300G234	3/16 × 4-1/2	DBBTGX412
1/4 × 3-1/4	300G314	3/16 × 5-1/2	DBBTGX512
1/4 × 3-3/4	300G334	3/16 × 5-1/2	DBBTGX512
1/4 × 4	300G4	3/16 × 5-1/2	DBBTGX512





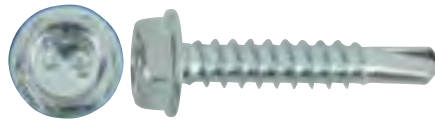
Body Bolts & Nuts – Inch



Standard Body Bolts & Nuts – Inch			
Photo	Description	Size (in)	Part No.
A	Spin Nut	1/4 – 20	482G
		5/16 – 18	482H
		3/8 – 16	482I
B	U-Nut (Extruded)	1/4 – 20 – 19/32 Throat	483G1932
		1/4 – 20 – 27/32 Throat	483G2732
		5/16 – 18 – 5/8 Throat	483H58
		5/16 – 18 – 7/8 Throat	483H78
		3/8 – 16 – 3/4 Throat	483I34
C	Hex Washer Head Bolt	3/8 – 16 – 1-1/8 Throat	483I118
		1/4 – 20 × 5/8	471G58
D	Hex Washer Head Dog Point Bolt	5/16 – 18 × 1	471H1
	Hex Head Loose Washer Dog Point Bolt	1/4 – 20 × 15/16 – 3/4 O.D. Washer	473G1516
	Hex Head Loose Washer Dog Point Bolt	1/4 – 20 × 1-1/8 – 3/4 O.D. Washer	473G118
E	Hex Washer Head CA Point Bolt	5/16 – 18 × 13/16	472H1316
		5/16 – 18 × 1-1/4	472H114
F	Hex Head Loose Washer Bolt	3/8 – 16 × 1 – 1 O.D. Washer	474I11
		3/8 – 16 × 1-1/2 – 1-1/8 O.D. Washer	474I112118

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Drillpoint Screws Hex Washer Head Zinc Plated					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	31C38	–	–	–	–
1/2"	31C12	31D12	31E12	–	–
5/8"	–	31D58	31E58	–	31G58
3/4"	31C34	31D34	31E34	31F34	31G34
1"	31C1	31D1	31E1	31F1	31G1
1-1/4"	31C114	31D114	31E114	31F114	31G114
1-1/2"	31C112	31D112	31E112	31F112	31G112
1-3/4"	–	31D134	31E134	31F134	31G134
2"	–	31D2	31E2	31F2	31G2
2-1/2"	–	–	31E212	31F212	31G212
3"	–	–	31E3	31F3	31G3



Drillpoint Screws Hex Washer Head Black Phosphate				
Dia. Length	Part No.			
	#8	#10	#12	#14
1/2"	31D12BK	31E12BK	–	–
5/8"	31D58BK	–	–	–
3/4"	31D34BK	31E34BK	31F34BK	–
1"	31D1BK	31E1BK	31F1BK	31G1BK
1-1/4"	31D114BK	31E114BK	–	–
1-1/2"	31D112BK	31E112BK	31F112BK	31G112BK
2"	–	31E2BK	31F2BK	31G2BK
2-1/2"	–	31E212BK	31F212BK	–
3"	–	–	31F3BK	31G3BK



Phillips Pan Head Screws					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	44C38	–	–	–	–
1/2"	44C12	44D12	44E12	–	–
5/8"	44C58	44D58	44E58	–	–
3/4"	44C34	44D34	44E34	44F34	44G34
1"	44C1	44D1	44E1	44F1	44G1
1-1/4"	–	44D114	44E114	44F114	44G114
1-1/2"	–	44D112	44E112	44F112	44G112
2"	–	44D2	44E2	44F2	44G2



Phillips Pan Head Screws Black Phosphate			
Dia. Length	Part No.		
	#6	#8	#10
3/8"	44C38BK	–	–
1/2"	44C12BK	44D12BK	44E12BK
3/4"	44C34BK	44D34BK	44E34BK
1"	44C1BK	44D1BK	44E1BK
1-1/4"	–	–	44E114BK





Drill Point Screws

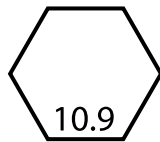


Pan Head Square Drive Screws Zinc Plated					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	313C38	313D38	–	–	–
1/2"	313C12	313D12	313E12	–	–
5/8"	313C58	313D58	313E58	–	–
3/4"	313C34	313D34	313E34	313F34	–
1"	313C1	313D1	313E1	313F1	313G1
1-1/4"	–	313D114	313E114	313F114	313G114
1-1/2"	–	313D112	313E112	313F112	313G112
2"	–	313D2	313E2	313F2	–
2-1/2"	–	313D212	313E212	–	–

K-LATH Screws Phillips Modified Truss (K-Lath) Head		
Dia	Length	Part No.
#8	1/2"	310D12
	3/4"	310D34
	1"	310D1
	1-1/4"	310D114
	1-5/8"	310D158
#10	3/4"	310E34
	1"	310E1

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Coarse

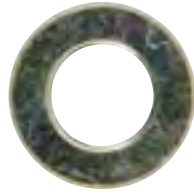


Metric Hex Cap Screws Class 10.9, Coarse Thread, Yellow Zinc Plated								
Dia. Length	Part No.							
	M6 Dia. 1.00 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.50 Pitch	M12 Dia. 1.75 Pitch	M14 Dia. 2.00 Pitch	M16 Dia. 2.00 Pitch	M18 Dia. 2.50 Pitch	M20 Dia. 2.50 Pitch
12	99610012	–	–	–	–	–	–	–
16	99610016	99812516	–	–	–	–	–	–
20	99610020	99812520	991015020	–	–	–	–	–
25	99610025	99812525	991015025	991217525	–	991620025	–	–
30	99610030	99812530	991015030	991217530	991420030	991620030	–	–
35	99610035	99812535	991015035	991217535	991420035	–	–	–
40	99610040	99812540	991015040	991217540	991420040	991620040	991825040	992025040
45	99610045	99812545	991015045	991217545	991420045	991620045	–	–
50	99610050	99812550	991015050	991217550	991420050	991620050	991825050	992025050
55	99610055	99812555	991015055	991217555	991420055	991620055	–	–
60	99610060	99812560	991015060	991217560	991420060	991620060	991825060	992025060
65	99610065	99812565	991015065	991217565	991420065	991620065	–	992025065
70	99610070	99812570	991015070	991217570	991420070	991620070	991825070	992025070
75	–	99812575	991015075	991217575	991420075	991620075	–	992025075
80	–	99812580	991015080	991217580	991420080	991620080	991825080	992025080
90	–	99812590	991015090	991217590	991420090	991620090	991825090	992025090
100	–	–	9910150100	9912175100	9914200100	9916200100	9918250100	9920250100
110	–	–	–	–	–	–	–	9920250110
120	–	–	–	–	–	–	–	9920250120
130	–	–	–	–	–	–	–	9920250130
140	–	–	–	–	–	–	–	9920250140
150	–	–	–	–	–	–	–	9920250150
160	–	–	–	–	–	–	–	9920250160
170	–	–	–	–	–	–	–	9920250170
180	–	–	–	–	–	–	–	9920250180
190	–	–	–	–	–	–	–	9920250190
200	–	–	–	–	–	–	–	9920250200

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Metric



Metric Flat Washers Class 10 Hardened Yellow Zinc Plated	
Size (mm)	Part No.
M6	9996
M8	9998
M10	99910
M12	99912
M14	99914
M16	99916
M18	99918
M20	99920

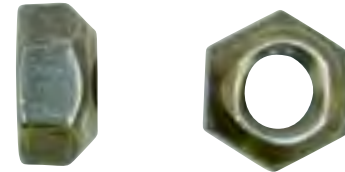


Metric Hex Nuts Class 10 Yellow Zinc Plated	
Size (mm)	Part No.
M6 – 1.00	986100
M8 – 1.25	988125
M10 – 1.50	9810150
M12 – 1.75	9812175
M14 – 2.00	9814200
M16 – 2.00	9816200
M18 – 2.50	9818250
M20 – 2.50	9820250

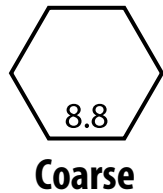


Metric Nylon Insert Nuts Class 10 Yellow Zinc Plated	
Size (mm)	Part No.
M6 – 1.00	9906100
M8 – 1.25	9908125
M10 – 1.50	99010150
M12 – 1.75	99012175
M14 – 2.00	99014200
M16 – 2.0	99016200
M18 – 2.50	99018250
M20 – 2.50	99020250

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Metric Hex Nuts Class 10 Top Lock Zinc Plated	
Dia. (mm)	Part No.
M5-.80	715580
M6-1.00	7156100
M8-1.00	7158100
M8-1.25	7158125
M10-1.00	71510100
M10-1.25	71510125
M10-1.50	71510150
M12-1.75	71512175
M14-1.50	71514150
M14-2.00	71514200
M16-2.00	71516200
M18-2.50	71518250
M20-2.50	71520250



Metric Hex Cap Screws Class 8.8, Coarse Thread, Zinc Plated											
Length (mm)	Part No.										
	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch	M7 Dia. 1.0 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.5 Pitch	M12 Dia. 1.75 Pitch	M14 Dia. 2.0 Pitch	M16 Dia. 2.0 Pitch	M18 Dia. 2.5 Pitch	M20 Dia. 2.5 Pitch
8	804708	-	8061008	-	-	-	-	-	-	-	-
10	8047010	8058010	80610010	-	80812510	-	-	-	-	-	-
12	8047012	8058012	80610012	80710012	80812512	801015012	-	-	-	-	-
16	8047016	8058016	80610016	80710016	80812516	801015016	-	-	-	-	-
18	-	-	80610018	-	80812518	-	-	-	-	-	-
20	8047020	8058020	80610020	80710020	80812520	801015020	801217520	-	-	-	-
25	8047025	8058025	80610025	80710025	80812525	801015025	801217525	801420025	801620025	-	-
30	-	8058030	80610030	80710030	80812530	801015030	801217530	801420030	801620030	-	-
35	-	8058035	80610035	80710035	80812535	801015035	801217535	801420035	801620035	-	-
40	-	8058040	80610040	80710040	80812540	801015040	801217540	801420040	801620040	801825040	802025040
45	-	8058045	80610045	-	80812545	801015045	801217545	801420045	801620045	-	-
50	-	8058050	80610050	-	80812550	801015050	801217550	801420050	801620050	801825050	802025050
55	-	-	-	-	80812555	801015055	801217555	801420055	801620055	-	-
60	-	8058060	80610060	-	80812560	801015060	801217560	801420060	801620060	801825060	802025060
65	-	-	-	-	80812565	801015065	801217565	801420065	801620065	-	802025065
70	-	8058070	80610070	-	80812570	801015070	801217570	801420070	801620070	801825070	802025070
75	-	-	-	-	80812575	801015075	801217575	801420075	801620075	-	802025075
80	-	-	-	-	-	-	-	-	-	801825080	802025080
90	-	-	-	-	80812590	801015090	801217590	801420090	801620090	801825090	802025090
100	-	-	-	-	-	8010150100	8012175100	8014200100	-	8018250100	8020250100
110	-	-	-	-	-	-	-	-	-	-	8020250110
120	-	-	-	-	-	-	-	-	-	-	8020250120
130	-	-	-	-	-	-	-	-	-	-	8020250130
140	-	-	-	-	-	-	-	-	-	-	8020250140
150	-	-	-	-	-	-	-	-	-	-	8020250150
160	-	-	-	-	-	-	-	-	-	-	8020250160
170	-	-	-	-	-	-	-	-	-	-	8020250170
180	-	-	-	-	-	-	-	-	-	-	8020250180
190	-	-	-	-	-	-	-	-	-	-	8020250190
200	-	-	-	-	-	-	-	-	-	-	8020250200

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Metric



Metric Flat Washers Class 8, DIN 125, Zinc Plated

Size (mm)	Part No.
M3	843
M4	844
M5	845
M6	846
M7	847
M8	848
M10	8410
M12	8412
M14	8414
M16	8416
M18	8418
M20	8420

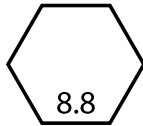
Metric Hex Nuts Class 8, DIN 934, Coarse, Thread Zinc Plated

Size (mm)	Part No.
M3 × .50	81350
M4 × .70	81470
M5 × .80	81580
M6 × 1.00	816100
M7 × 1.00	817100
M8 × 1.25	818125
M10 × 1.50	8110150
M12 × 1.75	8112175
M14 × 2.00	8114200
M16 × 2.00	8116200
M18 × 2.50	8118250
M20 × 2.50	8120250

Metric Nylon Insert Lock Nuts Class 8, DIN 985, Coarse Thread, Zinc Plated

Size (mm)	Part No.
M3 × .50	82350
M4 × .70	82470
M5 × .80	82580
M6 × 1.00	826100
M7 × 1.00	827100
M8 × 1.25	828125
M10 × 1.50	8210150
M12 × 1.75	8212175
M14 × 2.00	8214200
M16 × 2.00	8216200
M18 × 2.50	8218250
M20 × 2.50	8220250

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Fine & Extra Fine



 = Extra Fine Thread

Metric Hex Head Cap Screws Class 8.8, Fine Thread, Zinc Plated

Length (mm)	Part No.						
	M8 Dia. 1.0 Pitch	M10 Dia. 1.0 Pitch	M10 Dia. 1.25 Pitch	M12 Dia. 1.25 Pitch	M12 Dia. 1.5 Pitch	M14 Dia. 1.5 Pitch	M16 Dia. 1.5 Pitch
16	8081016	–	–	–	–	–	–
20	8081020	801010020	801012520	–	801215020	–	–
25	8081025	801010025	801012525	801212525	801215025	801415025	–
30	8081030	801010030	801012530	801212530	801215030	801415030	–
35	8081035	–	801012535	801212535	801215035	801415035	–
40	8081040	801010040	801012540	801212540	801215040	801415040	801615040
45	–	–	801012545	801212545	801215045	801415045	–
50	8081050	801010050	801012550	801212550	801215050	801415050	801615050
55	–	–	801012555	801212555	801215055	–	–
60	–	–	801012560	801212560	–	–	–
65	–	–	–	801212565	801215065	–	–
70	–	–	–	801212570	801215070	–	801615070
75	–	–	–	–	–	801415075	–
90	–	–	–	–	801215090	–	–
100	–	–	–	–	8012150100	8014150100	–



**Metric Hex Nuts
Class 8, DIN 934,
Fine Thread, Zinc Plated**

Size (mm)	Part No.
M8 × 1.00	818100
M10 × 1.00	8110100*
M10 × 1.25	8110125
M12 × 1.25	8112125*
M12 × 1.50	8112150
M14 × 1.50	8114150
M16 × 1.50	8116150

*Extra Fine Thread

**Metric Nylon Insert Lock
Nuts Class 8, DIN 985,
Fine Thread, Zinc Plated**

Size (mm)	Part No.
M8 × 1.00	828100
M10 × 1.00	8210100*
M10 × 1.25	8210125
M14 × 1.50	8214150

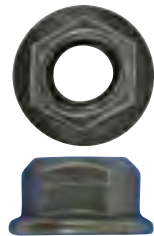
*Extra Fine Thread

Metric Body Bolts & Nuts

Photo	Description	Size (mm)	Part No.
A	Free Spinning Washer Nut	M6 × 1.00 – 10mm Hex	103610010
		M6 × 1.00 – 11mm Hex	103610011
B	Spin Nut	M8 × 1.25 – 13mm Hex	101812513
		M10 × 1.50 – 15mm Hex	1011015015
C	U-Nut (Extruded)	M6 × 1.00 – 17/32 Throat	10261001732
		M6 × 1.00 – 25/32 Throat	10261002532
		M8 × 1.25 – 9/16 Throat	1028125916
		M8 × 1.25 – 13/16 Throat	10281251316
D	Hex Head Loose Washer Bolt	M6-1.00 × 20mm – 16mm O.D. Washer	10061002016
		M6-1.00 × 20mm – 24mm O.D. Washer	10061002024
		M6-1.00 × 25mm – 16mm O.D. Washer	10061002516
		M6-1.00 × 25mm – 24mm O.D. Washer	10061002524
		M8-1.25 × 25mm – 24mm O.D. Washer	10081252524
		M8-1.25 × 30mm – 24mm O.D. Washer	10081253024
		M10-1.50 × 40mm – 28mm O.D. Washer	100101504028



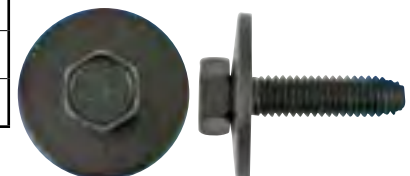
A



B



C



D



Socket Head Screws – Metric



Metric Split Lockwashers High Alloy, Zinc Plated For Class 10.9 And Lower Grades	
Size (mm)	Part No.
M6	836
M7	837
M8	838
M10	8310
M12	8312
M14	8314
M16	8316
M20	8320

Metric Split Lockwashers Zinc Plated For Class 8.8 And Lower Grades	
Size (mm)	Part No.
M3	833
M4	834
M5	835

Metric Spring Washers Zinc Plated	
Size (mm)	Part No.
M3	863
M4	864
M5	865
M6	866
M7	867
M8	868
M10	8610
M12	8612
M14	8614
M16	8616
M21	8621

Metric Lock Washers Split High Collar	
Dia. (mm)	Part No.
4	26104
5	26105
6	26106
8	26108
10	26110
12	26112
14	26114
16	26116
20	26120

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Metric Socket Head Cap Screws Coarse Thread, DIN 912, Class 12.9, Plain Finish										
Dia. Length (mm)	Part No.									
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.00 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.50 Pitch	M12 Dia. 1.75 Pitch	M14 Dia. 2.00 Pitch	M16 Dia. 2.00 Pitch	M20 Dia. 2.50 Pitch
8	8535008	8547008	–	–	–	–	–	–	–	–
10	8535010	8547010	8558010	85610010	–	–	–	–	–	–
12	8535012	8547012	8558012	85610012	85812512	–	–	–	–	–
14	–	8547014	8558014	–	85812514	–	–	–	–	–
16	8535016	8547016	8558016	85610016	85812516	–	–	–	–	–
20	8535020	8547020	8558020	85610020	85812520	851015020	851217520	–	–	–
25	8535025	8547025	8558025	85610025	85812525	851015025	851217525	851420025	851620025	–
30	8535030	8547030	8558030	85610030	85812530	851015030	851217530	851420030	851620030	–
35	8535035	8547035	8558035	85610035	85812535	851015035	851217535	851420035	851620035	852025035
40	–	8547040	8558040	85610040	85812540	851015040	851217540	851420040	851620040	852025040
45	–	8547045	8558045	85610045	85812545	851015045	851217545	851420045	851620045	852025045
50	–	8547050	8558050	85610050	85812550	851015050	851217550	851420050	851620050	852025050
55	–	–	–	85610055	85812555	851015055	851217555	851420055	851620055	852025055
60	–	–	–	85610060	85812560	851015060	851217560	851420060	851620060	852025060
65	–	–	–	85610065	85812565	851015065	851217565	851420065	851620065	852025065
70	–	–	–	85610070	85812570	851015070	851217570	851420070	851620070	852025070
75	–	–	–	85610075	85812575	851015075	–	851420075	851620075	852025075
80	–	–	–	85610080	85812580	851015080	851217580	851420080	851620080	852025080
85	–	–	–	–	85812585	851015085	851217585	–	–	852025085
90	–	–	–	–	85812590	851015090	851217590	851420090	851620090	852025090
95	–	–	–	–	85812595	851015095	851217595	–	–	–
100	–	–	–	–	858125100	851015100	8512175100	8514200100	8516200100	8520250100



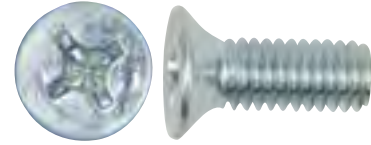
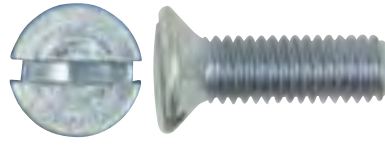
Metric Button Head Socket Cap Screws Class 10.9, Plain Finish						
Dia. Length (mm)	Part No.					
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.00 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.50 Pitch
6	583506	–	–	–	–	–
8	583508	584708	–	–	–	–
10	5835010	5847010	5858010	58610010	58812510	–
12	5835012	5847012	5858012	–	58812512	–
16	–	5847016	5858016	58610016	58812516	581015016
20	–	5847020	5858020	58610020	58812520	581015020
25	–	5847025	5858025	58610025	58812525	581015025
30	–	5847030	5858030	58610030	58812530	581015030
40	–	5847040	5858040	58610040	58812540	581015040



Metric Socket Set Screws Coarse Thread, Class 12.9, Plain Finish							
Dia. Length (mm)	Part No.						
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.00 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.50 Pitch	M12 Dia. 1.75 Pitch
3	7935003	–	–	–	–	–	–
4	7935004	7947004	–	–	–	–	–
5	7935005	7947005	7958005	–	–	–	–
6	7935006	7947006	7958006	79610006	–	–	–
8	7935008	7947008	7958008	79610008	79812508	–	–
10	7935010	7947010	7958010	79610010	79812510	791015010	–
12	–	7947012	7958012	79610012	79812512	791015012	791217512
16	–	7947016	7958016	79610016	79812516	791015016	791217516
20	–	7947020	7958020	79610020	79812520	791015020	791217520
25	–	–	–	79610025	79812525	791015025	791217525
30	–	–	–	79610030	79812530	791015030	791217530
35	–	–	–	–	79812535	791015035	791217535
40	–	–	–	–	79812540	791015040	791217540
45	–	–	–	–	–	–	791217545
50	–	–	–	–	–	791015050	791217550



Machine Screws – Metric



Metric Slotted Flat Head Machine Screws DIN 963, Zinc Plated					
Length (mm)	Part No.				
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch	M8 Dia. 1.25 Pitch
6	883506	884706	–	–	–
8	883508	884708	–	–	–
10	8835010	8847010	8858010	8861010	–
12	8835012	8847012	8858012	8861012	88812512
16	8835016	8847016	8858016	8861016	88812516
20	–	8847020	8858020	8861020	88812520
25	–	–	8858025	8861025	88812525
30	–	–	8858030	8861030	88812530
35	–	–	–	–	88812535

Metric Phillips Flat Head Machine Screws DIN 965, Zinc Plated				
Length (mm)	Part No.			
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch
8	903508	904708	–	–
10	9035010	9047010	9058010	9061010
12	9035012	9047012	9058012	9061012
16	9035016	9047016	9058016	9061016
18	–	–	–	–
20	–	9047020	9058020	9061020
25	–	–	9058025	9061025
30	–	–	–	9061030
35	–	–	–	9061035

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Metric Slotted Pan Head Machine Screws DIN85, Zinc Plated					
Length (mm)	Part No.				
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch	M8 Dia. 1.25 Pitch
6	873506	874706	–	–	–
8	873508	–	–	–	–
10	8735010	8747010	8758010	87610010	–
12	8735012	8747012	8758012	87610012	87812512
16	8735016	8747016	8758016	87610016	87812516
20	–	8747020	8758020	87610020	87812520
25	–	–	8758025	87610025	87812525
30	–	–	8758030	87610030	87812530

Metric Phillips Pan Head Machine Screws DIN7985, Zinc Plated				
Length (mm)	Part No.			
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch
6	893506	894706	–	–
8	–	894708	895808	–
10	8935010	8947010	8958010	8961010
12	–	8947012	8958012	8961012
16	8935016	8947016	8958016	8961016
18	8935018	8947018	–	–
20	8935020	8947020	8958020	8961020
25	8935025	8947025	8958025	8961025
30	–	–	8958030	8961030
35	–	–	–	8961035
40	–	–	–	8961040
45	–	–	–	8961045
50	–	–	–	8961050
60	–	–	–	8961060



Metric Phillips Oval Head Machine Screws DIN966, Zinc Plated				
Length (mm)	Part No.			
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch
6	913506	–	–	–
8	913508	914708	–	–
10	9135010	–	–	9161010
12	–	9147012	9158012	–
16	9135016	9147016	9158016	9161016
20	–	9147020	9158020	9161020
25	–	9147025	9158025	–
30	–	9147030	9158030	9161030
40	–	–	–	9161040
50	–	–	–	9161050





316 Stainless Steel – Inch



Hex Head Cap Screws 316 Stainless Steel, U.S.S., Coarse Thread							
Diameter Length	Part No.						
	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	5/8"-11	3/4"-10
1/2"	362G12	362H12	362I12	-	-	-	-
3/4"	362G34	362H34	362I34	362J34	362K34	-	-
1"	362G1	362H1	362I1	362J1	362K1	362M1	362N1
1-1/4"	362G114	362H114	362I114	362J114	362K114	362M114	-
1-1/2"	362G112	362H112	362I112	362J112	362K112	362M112	362N112
1-3/4"	362G134	362H134	362I134	362J134	362K134	362M134	362N134
2"	362G2	362H2	362I2	362J2	362K2	362M2	362N2
2-1/4"	362G214	362H214	362I214	-	362K214	362M214	362N214
2-1/2"	362G212	362H212	362I212	362J212	362K212	362M212	362N212
3"	362G3	362H3	362I3	362J3	362K3	362M3	362N3
3-1/2"	362G312	362H312	362I312	-	362K312	362M312	362N312
4"	362G4	362H4	362I4	362J4	362K4	362M4	362N4
4-1/2"	362G412	362H412	362I412	-	362K412	362M412	362N412
5"	362G5	362H5	362I5	362J5	362K5	362M5	362N5
5-1/2"	362G512	362H512	362I512	-	362K512	362M512	362N512
6"	362G6	362H6	362I6	362J6	362K6	362M6	362N6
7"	-	-	-	-	362K7	-	-

Nylon Insert Lock Nuts 316 Stainless Steel	
Size	Part No.
#6-32	353C
#8-32	353D
#10-24	353E
#10-32	353EF
1/4"-20	353G
5/16"-18	353H
3/8"-16	353I
7/16"-14	353J
1/2"-13	353K
5/8"-11	353M
3/4"-10	353N

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Flat Washers 316 Stainless Steel	
Size	Part No.
#6	356C
#8	356D
#10	356E
1/4"	356G
5/16"	356H
3/8"	356I
7/16"	356J
1/2"	356K
5/8"	356M
3/4"	356N



Fender Washers 316 Stainless Steel		
Size	O.D. (in)	Part No.
#8	3/4"	393D34
#10	5/8"	393E58
#10	1"	393E1
1/4"	1"	393G1
5/16"	1-1/2"	393H112
3/8"	1-1/4"	393I114
3/8"	1-1/2"	393I112



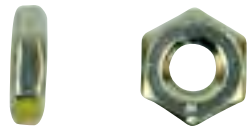
Split Lockwashers 316 Stainless Steel	
Size	Part No.
#6	355C
#8	355D
#10	355E
1/4"	355G
5/16"	355H
3/8"	355I
7/16"	355J
1/2"	355K
5/8"	355M
3/4"	355N



Hex Finish Nuts 316 Stainless Steel	
Size	Part No.
1/4"-20	350GX
5/16"-18	350HX
3/8"-16	350IX
7/16"-14	350JX
1/2"-13	350KX
5/8"-11	350MX
3/4"-10	350NX



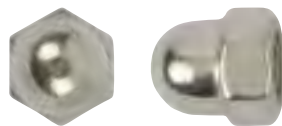
Phillips Pan Head Machine Screws 316 Stainless Steel					
Diameter Length	Part No.				
	#6-32	#8-32	#10-24	#10-32	1/4"-20
1/4"	364C14	364D14	–	–	–
3/8"	364C38	364D38	364E38	364EF38	–
1/2"	364C12	364D12	364E12	364EF12	364G12
5/8"	364C58	364D58	364E58	364EF58	364G58
3/4"	364C34	364D34	364E34	364EF34	364G34
1"	364C1	364D1	364E1	364EF1	364G1
1-1/4"	364C114	364D114	364E114	364EF114	364G114
1-1/2"	364C112	364D112	364E112	364EF112	364G112
2"	–	–	364E2	364EF2	364G2
2-1/4"	–	–	–	–	–
2-1/2"	–	–	–	–	364G212
3"	–	–	–	–	364G3



Hex Machine Nuts 316 Stainless Steel	
Size	Part No.
#6-32	350C
#8-32	350D
#10-24	350E
#10-32	350EF
1/4"-20	350G



Phillips Flat Head Sheet Metal Screws 316 Stainless Steel					
Diameter Length	Part No.				
	#6	#8	#10	#12	#14
1/2"	374C12	374D12	374E12	374F12	374G12
3/4"	374C34	374D34	374E34	374F34	374G34
1"	374C1	374D1	374E1	374F1	374G1
1-1/4"	374C114	374D114	374E114	374F114	374G114
1-1/2"	374C112	374D112	374E112	374F112	374G112
2"	374C2	374D2	374E2	374F2	374G2
2-1/2"	–	–	374E212	374F212	374G212
3"	–	–	374E3	374F3	374G3



Acorn Nuts 316 Stainless Steel	
Size	Part No.
1/4"-20	359G
5/16"-18	359H
3/8"-16	359I
1/2"-13	359K



Phillips Pan Head Sheet Metal Screws 316 Stainless Steel					
Diameter Length	Part No.				
	#6	#8	#10	#12	#14
1/2"	377C12	377D12	377E12	377F12	377G12
3/4"	377C34	377D34	377E34	377F34	377G34
1"	377C1	377D1	377E1	377F1	377G1
1-1/4"	377C114	377D114	377E114	377F114	377G114
1-1/2"	377C112	377D112	377E112	377F112	377G112
2"	377C2	377D2	377E2	377F2	377G2
2-1/2"	–	–	377E212	377F212	377G212
3"	–	–	377E3	377F3	377G3



18-8 Stainless Steel – Inch

- Tensile 100,000 – 125,000 PSI
- Yield 55,000 – 75,000 PSI
- Hardness 100 ROCKWELL B
- Dimensions ANSI B18.2.1



Hex Head Cap Screws 18-8 Stainless Steel, U.S.S., Coarse Thread

Diameter Length	Part No.						
	1/4" – 20	5/16" – 18	3/8" – 16	7/16" – 14	1/2" – 13	5/8" – 11	3/4" – 10
1/2"	62G12	62H12	62I12	–	62K12	–	–
3/4"	62G34	62H34	62I34	62J34	62K34	–	–
1"	62G1	62H1	62I1	62J1	62K1	62M1	–
1-1/4"	62G114	62H114	62I114	62J114	62K114	62M114	–
1-1/2"	62G112	62H112	62I112	62J112	62K112	62M112	62N112
1-3/4"	62G134	62H134	62I134	62J134	62K134	62M134	62N134
2"	62G2	62H2	62I2	62J2	62K2	62M2	62N2
2-1/4"	62G214	62H214	62I214	62J214	62K214	62M214	62N214
2-1/2"	62G212	62H212	62I212	62J212	62K212	62M212	62N212
3"	62G3	62H3	62I3	62J3	62K3	62M3	62N3
3-1/2"	62G312	62H312	62I312	–	62K312	62M312	62N312
4"	62G4	62H4	62I4	–	62K4	62M4	62N4
4-1/2"	62G412	62H412	62I412	–	62K412	62M412	62N412
5"	62G5	62H5	62I5	–	62K5	62M5	62N5
5-1/2"	62G512	62H512	62I512	–	62K512	62M512	62N512
6"	62G6	62H6	62I6	–	62K6	62M6	62N6

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18-8 Stainless Steel Carriage Bolts Course			
Dia. (in)	T.P.I.	Length (in)	Part No.
1/4	20	1/2	647G12
		3/4	647G34
		5/8	647G58
		1	647G1
		1-1/4	647G114
		1-1/2	647G112
		2	647G2
		2-1/2	647G212
		3	647G3
		4	647G4
5/16	18	3/4	647H34
		1	647H1
		1-1/4	647H114
		1-1/2	647H112
		2	647H2
		2-1/2	647H212
		3	647H3
		3-1/2	647H312
		4	647H4
3/8	16	3/4	647I34
		1	647I1
		1-1/4	647I114
		1-1/2	647I112
		2	647I2
		2-1/2	647I212
		3	647I3
		3-1/2	647I312
		4	647I4
		4-1/2	647I412
1/2	13	1	647K1
		1-1/4	647K114
		1-1/2	647K112
		2	647K2
		2-1/2	647K212
		3	647K3
		3-1/2	647K312
		4	647K4
		4-1/2	647K412
		5	647K5
		5-1/2	647K512
		6	647K6



Hex Nut 18-8 Stainless Steel	
Size	Part No.
#4 – 40	50B
#6 – 32	50C
#8 – 32	50D
#10 – 24	50E
#10 – 32	50EF
#12 – 24	50F
1/4" – 20	50G
5/16" – 18	50H
3/8" – 16	50I
7/16" – 14	50J
1/2" – 13	50K
5/8" – 11	50M
3/4" – 10	50N



Nylon Insert Lock Nuts 18-8 Stainless Steel	
Size	Part No.
#4-40	53B
#6 – 32	53C
#8 – 32	53D
#10 – 24	53E
#10 – 32	53EF
#12-24	53F
1/4" – 20	53G
5/16" – 18	53H
3/8" – 16	53I
7/16" – 14	53J
1/2" – 13	53K
5/8" – 11	53M
3/4" – 10	53N



18-8 Stainless Steel – Inch



Split Lockwashers 18-8 Stainless Steel	
Size	Part No.
#4	55B
#6	55C
#8	55D
#10	55E
#12	55F
1/4"	55G
5/16"	55H
3/8"	55I
7/16"	55J
1/2"	55K
5/8"	55M
3/4"	55N



Flat Washers 18-8 Stainless Steel	
Size	Part No.
#4	56B
#6	56C
#8	56D
#10	56E
#12	56F
1/4"	56G
5/16"	56H
3/8"	56I
7/16"	56J
1/2"	56K
5/8"	56M
3/4"	56N



Fender Washers 18-8 Stainless Steel		
Size	O.D. (in)	Part No.
#10	3/4	390E34
#10	1	390E1
1/4"	1	390G1
1/4"	1-1/4	390G114
1/4"	1-1/2	390G112
5/16"	1-1/4	390H114
5/16"	1-1/2	390H112
3/8"	1-1/4	390I114
3/8"	1-1/2	390I112
1/2"	1-1/2	390K112
5/8"	1-3/4	390M134

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Bonded Washers		
I.D.	O.D (in)	Part No.
#6	3/8	392C
#8	3/8	392D
#10	1/2	392E
#12	9/16	392F
1/4"	5/8	392G
5/16"	3/4	392H
3/8"	7/8	392I
1/2"	1	392J
5/8"	1-3/16	392K
3/4"	1-1/2	392M
1"	1-1/2	392N



Front




Back



Finishing Washers 18-8 Stainless Steel	
Size	Part No.
#6	6FW
#8	8FW
#10	10FW
#12	12FW
1/4"	14FW

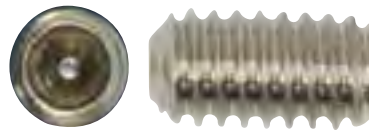
For use with drill point screws and other fasteners. 18–8 Stainless Steel, Neoprene Bonded Washers are 1/8" thick. They are not rated for pressure. The neoprene portion is black with a temperature range of -45°F to 250°F and a durometer hardness of 65A-75A.




 = Fine Thread

Socket Head Cap Screws
18-8 Stainless Steel

Diameter Length	Part No.										
	#4-40	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	5/8"-11
1/4"	78B14	78C14	78D14	-	78EF14	78G14	-	-	-	-	-
3/8"	78B38	78C38	78D38	78E38	78EF38	78G38	78H38	-	-	-	-
1/2"	78B12	78C12	78D12	78E12	78EF12	78G12	78H12	-	78J12	-	-
5/8"	-	78C58	78D58	78E58	78EF58	78G58	-	-	-	-	-
3/4"	78B34	78C34	78D34	78E34	78EF34	78G34	78H34	78I34	78J34	78K34	-
1"	-	78C1	78D1	78E1	78EF1	78G1	78H1	78I1	78J1	78K1	78M1
1-1/4"	-	78C114	78D114	78E114	78EF114	78G114	78H114	78I114	78J114	78K114	78M114
1-1/2"	-	78C112	78D112	78E112	78EF112	78G112	78H112	78I112	78J112	78K112	78M112
1-3/4"	-	78C134	78D134	-	78EF134	78G134	78H134	78I134	78J134	78K134	78M134
2"	-	78C2	78D2	78E2	78EF2	78G2	78H2	78I2	78J2	78K2	78M2
2-1/4"	-	-	-	-	-	78G214	78H214	-	-	78K214	78M214
2-1/2"	-	78C212	78D212	78E212	-	78G212	78H212	78I212	78J212	78K212	78M212
3"	-	78C3	78D3	78E3	78EF3	78G3	78H3	78I3	78J3	78K3	78M3



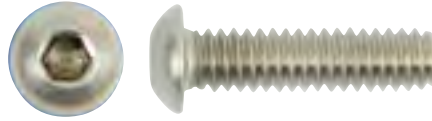
 = Fine Thread

Socket Set Screws
18-8 Stainless Steel

Diameter Length	Part No.								
	#4-40	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	1/2"-13
1/8"	72B18	72C18	72D18	-	-	-	-	-	-
3/16"	72B316	72C316	72D316	-	-	72G316	-	-	-
1/4"	72B14	72C14	72D14	72E14	72EF14	72G14	72H14	-	-
5/16"	72B516	72C516	72D516	72E516	72EF516	72G516	72H516	-	-
3/8"	72B38	72C38	72D38	72E38	72EF38	72G38	72H38	72I38	72K38
1/2"	72B12	72C12	72D12	72E12	72EF12	72G12	72H12	72I12	72K12
5/8"	72B58	72C58	72D58	72E58	72EF58	72G58	72H58	72I58	72K58
3/4"	72B34	72C34	72D34	72E34	72EF34	72G34	72H34	72I34	72K34
1"	-	72C1	72D1	72E1	72EF1	72G1	72H1	72I1	72K1



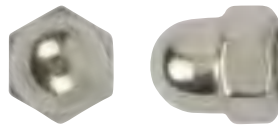
18-8 Stainless Steel – Inch



Button Head Socket Capscrews 18-8 Stainless Steel, Coarse Thread				
Diameter Length	Part No.			
	#6 – 32	#8 – 32	1/4" – 20	5/16" – 18
1/4"	580C14	–	–	–
3/8"	580C38	–	580G38	–
1/2"	580C12	580D12	580G12	580H12
5/8"	580C58	–	–	–
3/4"	580C34	580D34	580G34	580H34
7/8"	580C78	–	–	–
1"	580C1	–	580G1	580H1
1-1/4"	580C114	–	580G114	–
1-1/2"	580C112	–	580G112	580H112
2"	–	–	580G2	580H2
2-1/2"	–	–	580G212	580H212
3"	–	–	580G3	580H3
3-1/2"	–	–	580G312	580H312
4"	–	–	–	–

Button Head Socket Capscrews 18-8 Stainless Steel, Fine Thread			
Diameter Length	Part No.		
	#10 – 32	1/4" – 28	5/16" – 24
1/4"	–	–	–
3/8"	–	–	–
1/2"	580EF12	580GF12	580HF12
5/8"	–	–	–
3/4"	580EF34	580GF34	580HF34
7/8"	–	–	–
1"	–	580GF1	580HF1
1-1/4"	–	–	–
1-1/2"	–	580GF112	580HF112
2"	–	580GF2	580HF2
2-1/2"	–	580GF212	580HF212
3"	–	580GF3	580HF3
3-1/2"	–	580GF312	580HF312
4"	–	580GF4	580HF4


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Acorn Nuts 18-8 Stainless Steel			
Coarse		Fine	
Size	Part No.	Size	Part No.
#6-32	590C	–	–
#8-32	590D	–	–
#10-24	590E	#10-32	590EF
1/4"-20	590G	1/4"-28	590GF
5/16"-18	590H	5/16"-24	590HF
3/8"-16	590I	3/8"-24	590IF
1/2"-13	590K	1/2"-20	590KF





 = Fine Thread

Slotted Pan Head Machine Screws 18-8 Stainless Steel							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	60B14	60C14	60D14	60E14	60EF14	–	–
3/8"	60B38	60C38	60D38	60E38	60EF38	–	60G38
1/2"	60B12	60C12	60D12	60E12	60EF12	60F12	60G12
3/4"	60B34	60C34	60D34	60E34	60EF34	60F34	60G34
1"	60B1	60C1	60D1	60E1	60EF1	60F1	60G1
1-1/4"	–	60C114	60D114	60E114	60EF114	60F114	60G114
1-1/2"	60B112	60C112	60D112	60E112	60EF112	–	60G112
2"	–	60C2	60D2	60E2	60EF2	–	60G2



Tamper Resistant TORX® Pin-In Screws 18-8 Stainless		
Dia./TPI	Length	Part No.
#4 – 40	1/4	779B14
	3/8	779B38
	1/2	779B12
#6 – 32	1/4	779C14
	3/8	779C38
	1/2	779C12
	3/4	779C34
	1	779C1
#8 – 32	1/4	779D14
	3/8	779D38
	1/2	779D12
	5/8	779D58
	3/4	779D34
	1	779D1
#10 – 32	1/4	779E14
	3/8	779E38
	1/2	779E12
	5/8	779E58
	3/4	779E34
1/4" – 20	1	779E1
	1/2	779G12
	5/8	779G58
	3/4	779G34
	1	779G1
	1-1/4	779G114
1-1/2	779G112	
1-1/2	779G114	
1-1/2	779G112	



Phillips Pan Head Machine Screws 18-8 Stainless Steel						
Diameter Length	Part No.					
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	1/4" – 20
1/4"	64B14	64C14	64D14	64E14	64EF14	64G14
3/8"	64B38	64C38	64D38	64E38	64EF38	64G38
1/2"	64B12	64C12	64D12	64E12	64EF12	64G12
5/8"	64B58	64C58	64D58	64E58	64EF58	64G58
3/4"	64B34	64C34	64D34	64E34	64EF34	64G34
1"	64B1	64C1	64D1	64E1	64EF1	64G1
1-1/4"	–	64C114	64D114	64E114	64EF114	64G114
1-1/2"	–	64C112	64D112	64E112	64EF112	64G112
2"	–	64C2	64D2	64E2	64EF2	64G2
2-1/4"	–	–	–	–	–	64G214
2-1/2"	–	–	–	–	–	64G212
3"	–	–	–	–	–	64G3



18-8 Stainless Steel – Inch

 = Fine Thread



Spanner Pan Head Machine Screws – Tamper Resistant, 18-8 Stainless Steel							
Diameter Length	Part No.						
	#4–40	#6–32	#8–32	#10–24	#10–32	#12–24	1/4"–20
1/4"	67B14	67C14	67D14	67E14	67EF14	67F14	–
3/8"	67B38	67C38	67D38	67E38	67EF38	–	67G38
1/2"	67B12	67C12	67D12	67E12	67EF12	67F12	67G12
5/8"	67B58	67C58	67D58	67E58	67EF58	–	67G58
3/4"	67B34	67C34	67D34	67E34	67EF34	67F34	67G34
1"	67B1	67C1	67D1	67E1	67EF1	67F1	67G1
1-1/4"	67B114	67C114	67D114	67E114	67EF114	67F114	67G114
1-1/2"	67B112	67C112	67D112	67E112	67EF112	67F112	67G112
2"	–	67C2	67D2	67E2	67EF2	–	67G2
2-1/4"	–	–	–	–	–	–	67G214
2-1/2"	–	–	–	–	–	–	67G212
3"	–	–	–	–	–	–	67G3



Slotted Flat Head Machine Screws – Stainless Steel							
Diameter Length	Part No.						
	#4 – 40	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
1/4"	61B14	61C14	61D14	61E14	–	–	–
3/8"	61B38	61C38	61D38	61E38	61EF38	–	61G38
1/2"	61B12	61C12	61D12	61E12	61EF12	61F12	61G12
5/8"	61B58	61C58	61D58	61E58	61EF58	–	61G58
3/4"	61B34	61C34	61D34	61E34	61EF34	61F34	61G34
1"	61B1	61C1	61D1	61E1	61EF1	61F1	61G1
1-1/4"	–	61C114	61D114	61E114	61EF114	61F114	61G114
1-1/2"	–	61C112	61D112	61E112	61EF112	61F112	61G112
1-3/4"	–	–	–	–	–	–	61G134
2"	–	61C2	61D2	61E2	–	61F2	61G2
2-1/2"	–	–	–	–	–	–	61G212
3"	–	–	–	–	–	–	61G3



Phillips Flat Head Machine Screws – 18-8 Stainless Steel						
Diameter Length	Part No.					
	#6 – 32	#8 – 32	#10 – 24	#10 – 32	#12 – 24	1/4" – 20
3/8"	66C38	66D38	66E38	66EF38	–	–
1/2"	66C12	66D12	66E12	66EF12	–	66G12
5/8"	66C58	66D58	66E58	–	–	–
3/4"	66C34	66D34	66E34	66EF34	–	66G34
1"	66C1	66D1	66E1	66EF1	–	66G1
1-1/4"	66C114	66D114	66E114	66EF114	66F114	66G114
1-1/2"	66C112	66D112	66E112	66EF112	–	66G112
2"	66C2	66D2	66E2	66EF2	66F2	66G2

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Drill Point/Sheet Metal



Phillips Pan Head Drill Point Screws T-410 Stainless Steel		
Dia. (in)	Length (in)	Part No.
#6	1/2	440C12
	3/4	440C34
	5/8	440C58
	1	440C1
	1-1/4	440C114
	1-1/2	440C112
#8	1/2	440D12
	3/4	440D34
	5/8	440D58
	1	440D1
	1-1/4	440D114
	1-1/2	440D112
#10	1/2	440E12
	3/4	440E34
	5/8	440E58
	1	440E1
	1-1/4	440E114
	1-1/2	440E112
	2	440E2
	2-1/2	440E212
#12	3/4	440F34
	1	440F1
	1-1/4	440F114
	1-1/2	440F112
	2	440F2
	2-1/2	440F212
#14	3/4	440G34
	1	440G1
	1-1/4	440G114
	1-1/2	440G112
	2	440G2
	2-1/2	440G212
	3	440G3
	3-1/2	440G312
4	440G4	

Hex Washer Head Drill Point Screws T-410 Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	71C38	–	–	–	–
1/2"	71C12	71D12	71E12	–	–
5/8"	71C58	71D58	71E58	–	–
3/4"	71C34	71D34	71E34	71F34	71G34
1"	–	71D1	71E1	71F1	71G1
1-1/4"	–	71D114	71E114	71F114	71G114
1-1/2"	–	71D112	71E112	71F112	71G112
2"	–	–	71E2	71F2	71G2
2-1/2"	–	–	–	–	71G212
3"	–	–	–	–	71G3



Square Drive Pan Head Tapping Screws – 18-8 Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	75C38	75D38	–	–	–
1/2"	75C12	75D12	75E12	75F12	75G12
5/8"	75C58	75D58	75E58	75F58	75G58
3/4"	75C34	75D34	75E34	75F34	75G34
1"	75C1	75D1	75E1	75F1	75G1
1-1/4"	75C114	75D114	75E114	75F114	75G114
1-1/2"	75C112	75D112	75E112	75F112	75G112
1-3/4"	75C134	75D134	75E134	75F134	75G134
2"	75C2	75D2	75E2	75F2	75G2



Phillips Oval Head Sheet Metal Screws – Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
1/2"	76C12	76D12	76E12	76F12	–
5/8"	–	–	–	76F58	–
3/4"	76C34	76D34	76E34	76F34	–
1"	76C1	76D1	76E1	76F1	76G1
1-1/4"	76C114	76D114	76E114	76F114	76G114
1-1/2"	76C112	76D112	76E112	76F112	76G112
2"	–	76D2	76E2	76F2	76G2



18-8 Stainless Steel – Inch

Sheet Metal



Phillips Flat Head Screws Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	74C38	74D38	–	–	–
1/2"	74C12	74D12	74E12	–	–
5/8"	74C58	74D58	74E58	–	–
3/4"	74C34	74D34	74E34	74F34	74G34
1"	74C1	74D1	74E1	74F1	74G1
1-1/4"	74C114	74D114	74E114	74F114	74G114
1-1/2"	74C112	74D112	74E112	74F112	74G112
2"	–	74D2	74E2	74F2	74G2
2-1/2"	–	–	74E212	74F212	74G212
3"	–	–	74E3	74F3	74G3



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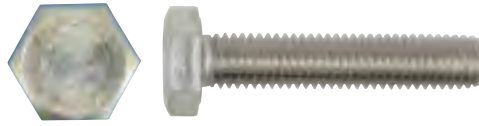
Phillips Pan Head Sheet Metal Screws – Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
3/8"	77C38	77D38	77E38	–	–
1/2"	77C12	77D12	77E12	77F12	77G12
5/8"	77C58	77D58	77E58	77F58	–
3/4"	77C34	77D34	77E34	77F34	77G34
1"	77C1	77D1	77E1	77F1	77G1
1-1/4"	77C114	77D114	77E114	77F114	77G114
1-1/2"	77C112	77D112	77E112	77F112	77G112
2"	–	77D2	77E2	77F2	77G2



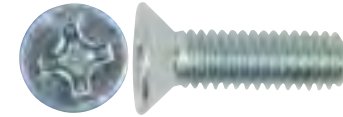
Round Head "One Way" Slotted Screws Tamper Resistant, 18-8 Stainless Steel				
Dia. Length	Part No.			
	#6	#8	#10	#14
1/2"	669C12	669D12	669E12	669G12
3/4"	669C34	669D34	669E34	669G34
1"	669C1	669D1	669E1	669G1
1-1/4"	669C114	669D114	669E114	669G114
1-1/2"	–	669D112	669E112	669G112
2"	–	–	–	669G2



Slotted Pan Head Sheet Metal Screws Stainless Steel					
Dia. Length	Part No.				
	#6	#8	#10	#12	#14
1/2"	70C12	70D12	70E12	70F12	70G12
5/8"	–	–	–	70F58	–
3/4"	70C34	70D34	70E34	70F34	70G34
1"	70C1	70D1	70E1	70F1	70G1
1-1/4"	70C114	70D114	70E114	70F114	70G114
1-1/2"	70C112	70D112	70E112	70F112	70G112
2"	–	70D2	70E2	70F2	70G2



Metric Hex Head Cap Screws Coarse Thread, A2 Stainless Steel								
Length (mm)	Part No.							
	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch	M8 Dia. 1.25 Pitch	M10 Dia. 1.5 Pitch	M12 Dia. 1.75 Pitch	M14 Dia. 2.0 Pitch	M16 Dia. 2.0 Pitch
8	924708	925808	–	–	–	–	–	–
10	9247010	9258010	92610010	–	–	–	–	–
12	9247012	9258012	92610012	–	–	–	–	–
16	9247016	9258016	92610016	92812516	–	–	–	–
20	9247020	9258020	92610020	92812520	921015020	–	–	–
25	9247025	9258025	92610025	92812525	921015025	921217525	921420025	921620025
30	9247030	9258030	92610030	92812530	921015030	921217530	921420030	921620030
35	9247035	9258035	92610035	92812535	921015035	921217535	921420035	921620035
40	9247040	9258040	92610040	92812540	921015040	921217540	921420040	921620040
45	–	9258045	92610045	92812545	921015045	921217545	921420045	921620045
50	–	9258050	92610050	92812550	921015050	921217550	921420050	921620050
55	–	–	–	92812555	921015055	921217555	921420055	921620055
60	–	9258060	92610060	92812560	921015060	921217560	921420060	921620060
65	–	–	–	92812565	921015065	921217565	921420065	921620065
70	–	9258070	92610070	92812570	921015070	921217570	921420070	921620070
75	–	–	–	–	921015075	–	–	–
80	–	–	–	92812580	921015080	921217580	–	921620080
90	–	–	–	92812590	921015090	921217590	–	921620090
100	–	–	–	–	9210150100	9212175100	–	–



Slotted Pan Head Machine Screws Metric Stainless Steel					
Length	Part No.				
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch	M8 Dia. 1.25 Pitch
6	8703506	8704706	–	–	–
8	8703508	–	–	–	–
10	87035010	87047010	87058010	870610010	–
12	87035012	84047012	87058012	870610012	870812512
16	87035016	87047016	87058016	870610016	870812516
20	–	87047020	87058020	870610020	870812520
25	–	–	87058025	870610025	870812525
30	–	–	87058030	870610030	870812530

Phillips Flat Head Machine Screw Metric Stainless Steel				
Length	Part No.			
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch
8	9003508	9004708	–	–
10	90035010	90047010	90058010	90061010
12	90035012	90047012	90058012	90061012
16	90035016	90047016	90058016	90061016
20	–	90047020	90058020	90061020
25	–	–	90058025	90061025
30	–	–	–	90061030
35	–	–	–	90061035



A2 Stainless Steel – Metric

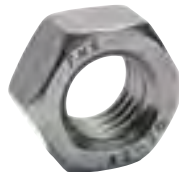


Phillips Pan Head Machine Screws Metric Stainless Steel				
Length	Part No.			
	M3 Dia. .50 Pitch	M4 Dia. .70 Pitch	M5 Dia. .80 Pitch	M6 Dia. 1.0 Pitch
6	8903506	8904706	–	–
8	–	8904708	8905808	–
10	89035010	89047010	89058010	89061010
12	–	89047012	89058012	89061012
16	89035016	89047016	89058016	89061016
18	–	89047018	–	–
20	89035020	89047020	89058020	89061020
25	89035025	89047025	89058025	89061025
30	–	–	89058030	89061030
35	–	–	–	89061035
40	–	–	–	89061040
45	–	–	–	89061045
50	–	–	–	89061050
60	–	–	–	89061060

Acorn Nuts A2 Stainless Metric		
Dia. (mm)	Pitch	Part No.
3	0.5	590350
4	0.7	590470
5	0.8	590580
6	1.0	5906100
8	1.25	5908125



Flatwasher Coarse A2 Stainless Steel Metric	
Screw Size	Part No.
M3	963
M4	964
M5	965
M6	966
M8	968
M10	9610
M12	9612
M14	9614
M16	9616



Hex Nuts Coarse A2 Stainless Steel Metric	
Screw Size	Part No.
M3 – .50	94350
M4 – .70	94470
M5 – .80	94580
M6 – 1.00	946100
M8 – 1.25	948125
M10 – 1.50	9410150
M12 – 1.75	9412175
M14 – 2.00	9414200
M16 – 2.00	9416200

Nylon Insert Lock Nuts Coarse A2 Stainless Steel Metric	
Screw Size	Part No.
M3 – .50	95350
M4 – .70	95470
M5 – .80	95580
M6 – 1.00	956100
M8 – 1.25	958125
M10 – 1.50	9510150
M12 – 1.75	9512175
M14 – 2.00	9514200
M16 – 2.00	9516200

Split Lockwashers A2 Stainless Steel Metric	
Screw Size	Part No.
M3	973
M4	974
M5	975
M6	976
M8	978
M10	9710
M12	9712
M14	9714
M16	9716

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Button Head Socket Capscrews A2 Stainless Steel Metric			
Dia. (mm)	Pitch	Length	Part No.
3	0.5	4	58935004
		5	58935005
		6	58935006
		8	58935008
		10	58935010
		12	58935012
		14	58935014
		16	58935016
		20	58935020
		25	58935025
30	58935030		
4	0.7	6	58947006
		8	58947008
		10	58947010
		12	58947012
		14	58947014
		16	58947016
		20	58947020
		25	58947025
		30	58947030
		35	58947035
		40	58947040
		45	58947045
50	58947050		
5	0.8	6	58958006
		8	58958008
		10	58958010
		12	58958012
		14	58958014
		16	58958016
		20	58958020
		25	58958025
		30	58958030
		35	58958035
		40	58958040
		45	58958045
		50	58958050
55	58958055		
60	58958060		



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A2 Stainless Steel – Metric



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Socket Head Cap Screws A2 Stainless Steel Metric

Dia. (mm)	Pitch	Length (mm)	Part No.	Dia. (mm)	Pitch	Length (mm)	Part No.	Dia. (mm)	Pitch	Length (mm)	Part No.				
3	.5	8	7893508	6	1.0	30	789610030	10	1.5	75	7891015075				
		10	78935010			35	789610035			80	7891015080				
		12	78935012			40	789610040			90	7891015090				
						14	78935014			45	789610045	12	1.75	20	7891217520
						16	78935016			50	789610050			25	7891217525
						18	78935018			55	789610055			30	7891217530
						20	78935020			60	789610060			35	7891217535
						25	78935025			65	789610065			40	7891217540
						30	78935030			70	789610070			45	7891217545
						75	789610075	50	7891217550						
						80	789610080	55	7891217555						
								60	7891217560						
4	.7	8	7894708	8	1.25	10	789812510	14	2.0	60	7891217560				
		10	78947010			12	789812512			65	7891217565				
		12	78947012			16	789812516			70	7891217570				
		14	78947014			20	789812520			75	7891217575				
		16	78947016			25	789812525			80	7891217580				
		18	78947018			30	789812530			25	7891420025				
		20	78947020			35	789812535			30	7891420030				
		25	78947025			40	789812540			35	7891420035				
		30	78947030			45	789812545			40	7891420040				
		35	78947035			50	789812550			45	7891420045				
		40	78947040			55	789812555			50	7891420050				
5	.8	10	78958010			60	789812560	60	7891420060						
		12	78958012			65	789812565	70	7891420070						
		16	78958016			70	789812570	80	7891420080						
		18	78958018			75	789812575	90	7891420090						
		20	78958020			80	789812580	100	7891420100						
		25	78958025												
		30	78958030	10	1.5	16	7891015016	16	2.0	25	7891620025				
		35	78958035			20	7891015020			30	7891620030				
		40	78958040			25	7891015025			35	7891620035				
		45	78958045			30	7891015030			40	7891620040				
50	78958050	35	7891015035			45	7891620045								
		40	7891015040			50	7891620050								
6	1.0	10	789610010			45	7891015045			60	7891620060				
		12	789610012			50	7891015050			70	7891620070				
		14	789610014			55	7891015055			80	7891620080				
		16	789610016			60	7891015060			90	7891620090				
		18	789610018			65	7891015065	100	7891620100						
		20	789610020			70	7891015070								
		25	789610025												



Wedge Anchors Zinc Plated							
Dia. Length	Part No.						
	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
1-3/4"	446G134	—	—	—	—	—	—
2-1/4"	446G214	446I214	—	—	—	—	—
2-3/4"	—	446I234	446K234	—	—	—	—
3"	—	446I3	—	—	—	—	—
3-1/4"	446G314	—	—	—	—	—	—
3-1/2"	—	—	—	446M312	—	—	—
3-3/4"	—	446I334	446K334	—	—	—	—
4-1/4"	—	—	—	—	446N414	—	—
4-1/2"	—	—	446K412	446M412	—	—	—
4-3/4"	—	—	—	—	446N434	—	—
5"	—	446I5	—	446M5	—	—	—
5-1/2"	—	—	446K512	—	446N512	—	—
6"	—	—	—	446M6	—	446O6	446P6
6-1/4"	—	—	—	—	446N614	—	—
7"	—	446I7	446K7	446M7	446N7	—	—
8"	—	—	—	—	—	446O8	—
8-1/2"	—	—	446K812	446M812	446N812	—	—
9"	—	—	—	—	—	—	446P9
10"	—	—	—	446M10	446N10	446O10	—
12"	—	—	—	—	446N12	—	446P12



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Round Head Toggle Bolts Zinc Plated					
Dia. Length	Part No.				
	1/8" #6 – 32"	3/16" #10 – 24	1/4" 1/4 – 20	5/16" 5/16 – 18	3/8" 3/8 – 16
2"	444C2	444E2	444G2	444H2	444I2
3"	444C3	444E3	444G3	444H3	444I3
4"	444C4	444E4	444G4	444H4	444I4
5"	—	444E5	444G5	444H5	444I5
6"	—	444E6	444G6	444H6	444I6





Anchors

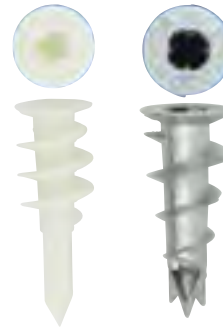
Hollow Wall Anchors

Anchor Size	Grip Length	Anchor Length	Part No.
1/8 X-Short	1/16" – 1/4"	3/4"	448DXS
1/8 Short	1/8" – 1/2"	1-1/4"	448DS
1/8 Long	5/8" – 7/8"	1-5/8"	448DL
1/8 X-Long	1/4" – 1-1/2"	2-1/4"	448DXL
3/16 Short	1/8" – 5/8"	2-1/16"	448FS
3/16 Long	5/8" – 1-3/16"	2-1/2"	448FL
3/16 X-Long	1-1/4" – 1-3/4"	3-1/8"	448FXL
1/4 Short	1/8" – 5/8"	2-1/16"	448GS
1/4 Long	5/8" – 1-3/16"	2-1/2"	448GL
1/4 X-Long	1-1/4" – 1-3/4"	3-1/8"	448GXL



ZIP-IT Anchors

MAT'L	O.A.L.	Internal Screw Size	Part No.
Nylon	1-3/8"	#6	449NY2
Nylon	1-3/4"	#8	449NY1
Metal	1-3/4"	#8	449MZ1



449NY1

449MZ1

Hollow Wall Anchors – Drive-Type

Anchor Size	Grip Length	Anchor Length	Part No.
1/8 X-Short	1/16" – 1/4"	3/4"	447DXS
1/8 Short	1/8" – 1/2"	1-1/4"	447DS
1/8 Long	5/8" – 7/8"	1-3/4"	447DL
1/8 Short-Long	1/8" – 13/16"	1-3/4"	447DSL

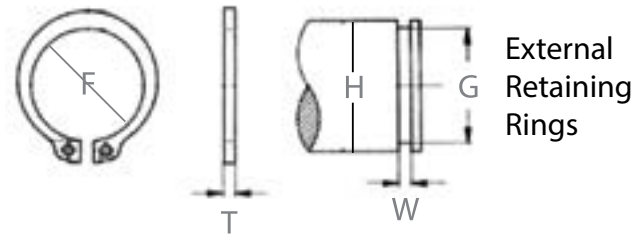
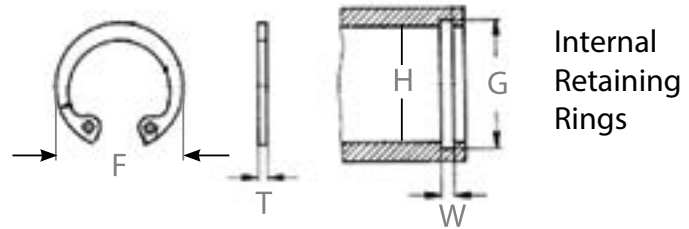
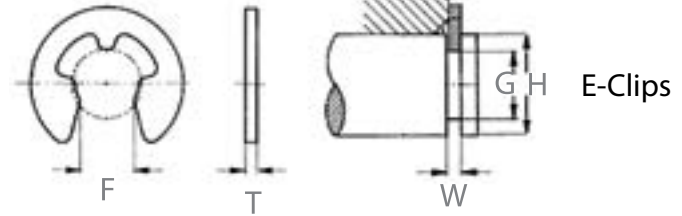


Plastic Screw Anchors

SIZE	PART NO.
6 – 8 × 3/4"	443CD34
8 – 10 × 7/8"	443DE78
10 – 12 × 1"	443EF1
14 – 16 × 1-1/2"	443GH112



Plastic Tubular Anchor
Screw Size: 10-11-12
length: 1"



E-Clips						
Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thickness	Part No.
	H	G	W	F	T	
1/16"	.062	.052	.012	.051	.010	EC116
3/32"	.094	.074	.020	.073	.015	EC332
1/8"	.125	.095	.020	.094	.015	EC18
5/32"	.156	.116	.029	.114	.025	EC532
3/16"	.188	.147	.029	.145	.025	EC316
7/32"	.219	.168	.029	.185	.025	EC732
1/4"	.250	.210	.029	.207	.025	EC14
5/16"	.312	.250	.029	.243	.025	EC516
3/8"	.375	.303	.039	.300	.035	EC38
7/16"	.438	.343	.039	.337	.035	EC716
1/2"	.500	.396	.046	.392	.042	EC12
5/8"	.625	.485	.046	.480	.042	EC58
3/4"	.750	.625	.056	.616	.050	EC34
7/8"	.875	.675	.056	.668	.050	EC78
1"	1.000	.835	.056	.822	.050	EC10



Retaining Rings



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Internal Retaining Rings

Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thick.	Part No.
	H	G	W	F	T	
1/4"	0.25	0.268	0.018	0.28	0.015	IR14
5/16"	0.312	0.33	0.018	0.346	0.015	IR516
3/8"	0.375	0.397	0.029	0.415	0.025	IR38
7/16"	0.438	0.461	0.029	0.482	0.025	IR716
1/2"	0.5	0.53	0.039	0.548	0.035	IR12
9/16"	0.562	0.596	0.039	0.62	0.035	IR916
5/8"	0.625	0.665	0.039	0.694	0.035	IR58
11/16"	0.688	0.732	0.039	0.763	0.035	IR1116
3/4"	0.75	0.796	0.039	0.831	0.035	IR34
13/16"	0.812	0.862	0.046	0.901	0.042	IR1316
7/8"	0.875	0.931	0.046	0.971	0.042	IR78
15/16"	0.938	1.0	0.046	1.041	0.042	IR1516
1"	1.0	1.066	0.046	1.111	0.042	IR10
1-1/16"	1.062	1.13	0.056	1.18	0.05	IR10116
1-1/8"	1.125	1.197	0.056	1.249	0.05	IR1018
1-3/16"	1.188	1.262	0.056	1.319	0.05	IR10316
1-1/4"	1.25	1.33	0.056	1.388	0.05	IR1014
1-5/16"	1.312	1.396	0.056	1.456	0.05	IR10516
1-3/8"	1.375	1.461	0.056	1.526	0.05	IR1038
1-7/16"	1.438	1.528	0.056	1.596	0.05	IR10716
1-1/2"	1.5	1.594	0.056	1.66	0.05	IR1012
1-9/16"	1.562	1.658	0.068	1.734	0.062	IR10916
1-5/8"	1.625	1.725	0.068	1.804	0.062	IR1058
1-11/16"	1.688	1.792	0.068	1.874	0.062	IR101116
1-3/4"	1.75	1.858	0.068	1.942	0.062	IR1034
1-13/16"	1.812	1.922	0.068	2.012	0.062	IR101316
1-7/8"	1.875	1.989	0.068	2.072	0.062	IR1078
1-15/16"	1.938	2.056	0.068	2.141	0.062	IR101516
2"	2.0	2.122	0.068	2.21	0.062	IR20
2-1/8"	2.125	2.251	.086	2.350	.078	IR2018
2-1/4"	2.250	2.382	.086	2.490	.078	IR2014
2-5/16"	2.312	2.450	.086	2.535	.078	IR20516
2-3/8"	2.375	2.517	.086	2.630	.078	IR2038
2-1/2"	2.500	2.648	.086	2.775	.078	IR2012
2-7/8"	2.875	3.051	.103	3.191	.093	IR2078

External Retaining Rings

Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thick.	Part No.
	H	G	W	F	T	
1/4"	.250	.230	.029	.225	.025	ER14
5/16"	.312	.290	.029	.281	.025	ER516
3/8"	.375	.352	.029	.338	.025	ER38
7/16"	.438	.412	.029	.395	.025	ER716
1/2"	.500	.468	.039	.461	.035	ER12
9/16"	.562	.530	.039	.521	.035	ER916
5/8"	.625	.588	.039	.579	.035	ER58
11/16"	.688	.646	.046	.635	.042	ER1116
3/4"	.750	.704	.046	.693	.042	ER34
25/32"	.781	.735	.046	.722	.042	ER2532
13/16"	.812	.762	.046	.751	.042	ER1316
7/8"	.875	.821	.046	.810	.042	ER78
15/16"	.938	.882	.046	.867	.042	ER1516
1"	1.000	.940	.046	.925	.042	ER10
1-1/16"	1.062	.998	.056	.982	.050	ER10116
1-1/8"	1.125	1.059	.056	1.0441	.050	ER1018
1-3/16"	1.188	1.118	.056	1.098	.050	ER10316
1-1/4"	1.250	1.176	.056	1.156	.050	ER1014
1-5/16"	1.312	1.232	.056	1.214	.050	ER10516
1-3/8"	1.375	1.291	.056	1.272	.050	ER1038
1-7/16"	1.438	1.350	.056	1.333	.050	ER10716
1-1/2"	1.500	1.406	.056	1.387	.050	ER1012
1-9/16"	1.562	1.468	.068	1.446	.062	ER10916
1-5/8"	1.625	1.529	.068	1.503	.062	ER1058
1-3/4"	1.750	1.650	.068	1.618	.062	ER1034
1-7/8"	1.875	1.769	.068	1.735	.062	ER1078
2"	2.000	1.886	.068	1.850	.062	ER20
2-1/8"	2.125	2.003	.086	1.964	.078	ER2018
2-1/4"	2.250	2.120	.086	2.081	.078	ER2014
2-5/16"	2.312	2.128	.086	2.139	.078	ER20516
2-3/8"	2.375	2.239	.086	2.197	.078	ER2038
2-1/2"	2.500	2.360	.086	2.313	.078	ER2012
2-7/8"	2.875	2.721	.103	2.659	.093	ER2078



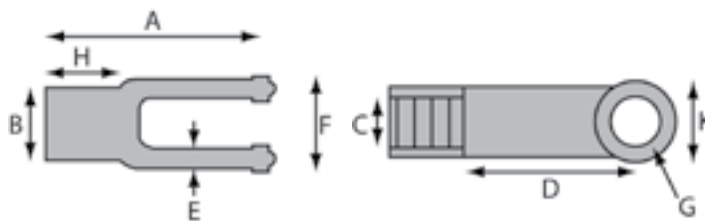
Clevis Pins Zinc Plated								
Diameter Length	Part No.							
	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
1/2"	328E12	328G12	–	–	–	–	–	–
3/4"	328E34	328G34	328H34	328I34	–	–	–	–
1"	328E1	328G1	328H1	328I1	328J1	328K1	–	–
1-1/4"	328E114	328G114	328H114	328I114	328J114	328K114	–	–
1-1/2"	328E112	328G112	328H112	328I112	328J112	328K112	328M112	–
1-3/4"	–	328G134	328H134	328I134	–	328K134	328M134	–
2"	–	328G2	328H2	328I2	328J2	328K2	328M2	328N2
2-1/4"	–	–	–	328I214	–	328K214	328M214	–
2-1/2"	–	–	–	328I212	–	328K212	328M212	328N212
3"	–	–	–	–	–	328K3	328M3	328N3
3-1/2"	–	–	–	–	–	–	328M312	328N312
4"	–	–	–	–	–	–	328M4	328N4



Universal Clevis Pins Zinc Plated				
Diameter Length	Part No.			
	1/4"	5/16"	3/8"	1/2"
1"	328G1U	328H1U	328I1U	–
1-1/2"	328G112U	328H112U	328I112U	–
2"	328G2U	328H2U	328I2U	328K2U
2-1/2"	–	–	328I212U	328K212U
3"	–	–	328I3U	328K3U
3-1/2"	–	–	–	328K312U
4"	–	–	–	328K4U



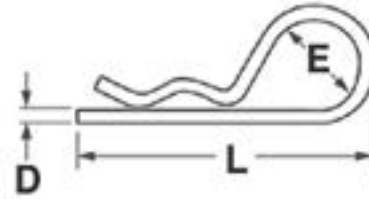
Dia.	Clevis Pin	Recommended Hitch Pin
3/16"	328E_	329x221
1/4"	328G_	329x236
5/16"	328H_	329x203
5/16"	328H_U	329x217
3/8"	328I_	329x216
7/16"	328J_	329x216
1/2"	328K_	329x216 (very tight)
		329x211 (slightly loose)
5/8"	328M_	329x211
3/4"	328N_	329x227



Yoke Clevis Zinc Plated										
"T" Tap Thread Size	Inches								Part No.	Pin #
	A	B	D	E	F	G	H	K		
1/4"–28	2	7/16	1-1/4	9/32	5/8	1/4	3/4	1/2	328YKA	328G34
3/8"–24	2-1/2	5/8	1-5/8	7/16	7/8	3/8	7/8	11/16	328YKB	328I1
1/2"–20	3	13/16	1-7/8	9/16	1-1/8	1/2	1-1/8	15/16	328YKC	328K114
5/8"–18	4-15/16	1-1/16	3-11/16	11/16	1-3/8	5/8	1-1/4	1-3/16	328YKD	328M112



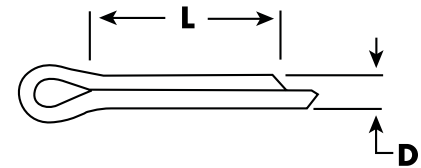
Hitch Pins



Hitch Pin Clips "Hair Pin Cotter"
Zinc Plated

Wire Dia	Drill Hole Size	Min. Shaft Dia.	Max. Shaft Dia.	Overall Length	Inside Dia. of Eye	Part No.
(D)				(L)	(E)	
.028	1/32	1/8	5/32	.060	.093	329x231
.035	.040	7/16	9/64	7/16	.078	329x226
.042	.047	1/16	1/8	7/16	.080	329x232
.042	3/64	3/16	1/4	1	1/4	329x223
.047	1/16	1/8	3/16	19/32	1/8	329x221
.047	1/16	1/4	3/8	1-9/16	5/16	329x224
.054	1/16	3/16	1/4	3/4	1/8	329x236
.054	1/16	1/4	3/8	7/8	9/64	329x237
.062	5/64	1/4	1/2	1-5/16	5/16	329x222
.062	5/64	3/8	1/2	1-9/16	3/8	329x218
.072	5/64	5/16	3/8	1-3/32	9/64	329x225
.072	5/64	3/8	1/2	1-7/8	5/8	329x239
.080	3/32	1/4	3/8	1-3/16	1/4	329x213
.080	3/32	3/8	1/2	1-9/16	3/8	329x217
.093	7/64	1/4	1/2	1-5/8	3/8	329x203
.093	7/64	1/4	5/8	2-5/16	5/8	329x207
.093	7/64	3/8	1/2	2	5/8	329x228
.093	7/64	3/8	3/4	2-1/2	9/16	329x214
.093	7/64	1/4	1/2	1-1/8	1/4	329x233
.105	1/8	5/16	3/8	1-1/4	1/8	329x230
.125	9/64	1/2	3/4	1-9/16	1/2	329x215
.125	9/64	1/2	3/4	1-15/16	7/16	329x216
.125	9/64	7/16	3/4	2-9/16	9/16	329x211
.125	9/64	5/8	7/8	2-1/2	5/8	329x227
.125	9/64	3/4	1-1/8	2-7/8	5/8	329x238
.125	9/64	3/4	1-1/8	3-1/8	1	329x202
.148	5/32	1/2 x 5/8	5/8 x 1	3	1/2	329x201
.148	5/32	3/4	1-1/8	3-5/16	3/4	329x209
.148	5/32	5/8	1	2-15/16	3/4	329x210
.162	3/16	1/2 x 3/4	5/8 x 1	3	5/8	329x204
.177	3/16	3/4	1 1/16	3-1/2	15/16	329x229
.177	3/16	5/8	1	3-1/4	15/16	329x206
.177	3/16	7/8	1-1/4	3-3/4	15/16	329x208
.243	17/64	3/4	1	4	15/16	329x219
.243	17/64	1-1/4	1-1/2	5-1/8	1-1/2	329x235
.310	21/64	7/8	1	4-1/16	7/8	329x220

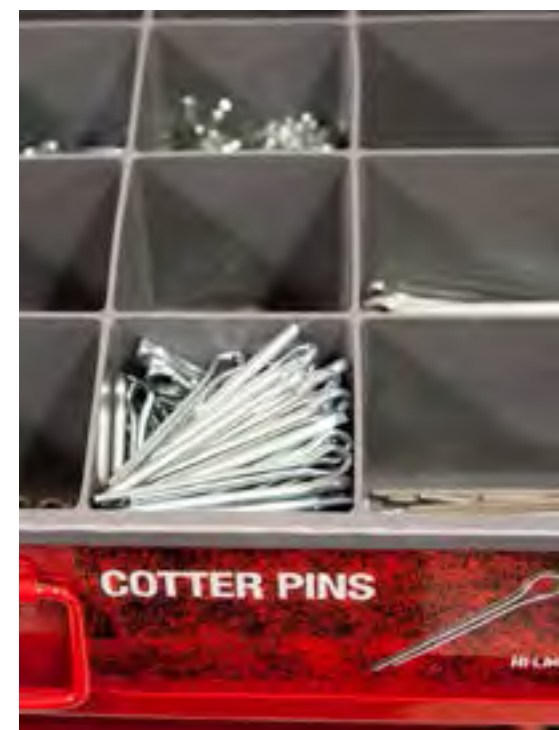
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Cotter Pins Zinc Plated									
Diameter (D) Length (L)	Part No.								
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
1/2"	33A12	33B12	33C12	—	—	—	—	—	—
5/8"	—	33B58	33C58	—	—	—	—	—	—
3/4"	33A34	33B34	33C34	33D34	33E34	—	—	—	—
1"	33A1	33B1	33C1	33D1	33E1	33G1	33H1	—	—
1-1/4"	33A114	33B114	33C114	33D114	33E114	33G114	33H114	—	—
1-1/2"	33A112	33B112	33C112	33D112	33E112	33G112	33H112	33I112	—
1-3/4"	33A134	33B134	33C134	33D134	33E134	33G134	—	33I134	—
2"	33A2	33B2	33C2	33D2	33E2	33G2	33H2	33I2	33K2
2-1/4"	33A212	33B214	33C214	33D214	33E214	33G214	33H214	33I214	—
2-1/2"	—	33B212	33C212	33D212	33E212	33G212	33H212	33I212	33K212
3"	33A3	33B3	33C3	33D3	33E3	33G3	33H3	33I3	33K3
3-1/2"	—	33B312	33C312	33D312	33E312	33G312	—	33I312	—
4"	—	33B4	33C4	33D4	33E4	33G4	33H4	33I4	33K4
4-1/2"	—	—	—	—	—	33G412	—	—	—
5"	—	—	—	—	—	33G5	33H5	33I5	33K5
6"	—	—	—	—	—	33G6	33H6	33I6	33K6



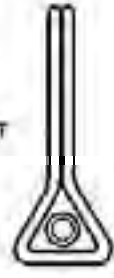
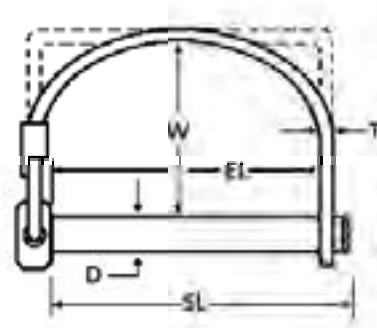
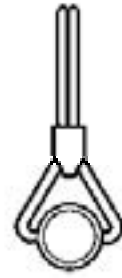
Cotter Pins 18-8 Stainless Steel						
Diameter (D) Length (L)	Part No.					
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"
1/2"	73A12	—	—	—	—	—
5/8"	—	—	—	—	—	—
3/4"	73A34	73B34	—	—	—	—
1"	73A1	73B1	73C1	73D1	73E1	73G1
1-1/4"	—	73B114	73C114	—	—	—
1-1/2"	—	73B112	73C112	73D112	73E112	73G112
1-3/4"	—	—	—	—	—	—
2"	—	73B2	73C2	73D2	73E2	73G2
2-1/4"	—	—	—	—	—	—
2-1/2"	—	—	73C212	73D212	73E212	73G212
3"	—	—	—	73D3	73E3	73G3



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Double Wire Snapper Pins

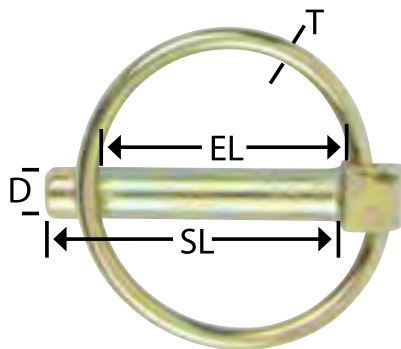


Double Wire Snapper Pins

Diameter (in)	Effective Length (in)	Shank Length (in)	Wire Diameter (in)	Wire Clearance (in)	Handle Style	Part No.
(D)	(EL)	(SL)	(T)	(W)		
1/4	1-3/8	1-5/8	.091	1.625	Round	334G138R
	1-3/4	2	.091	1.625	Round	334G134R
	2-1/4	2-1/2	.091	1.625	Square	334G214S
	2-1/2	2-3/4	.091	1.625	Round	334G212R
	2-1/2	2-3/4	.091	1.625	Square	334G212S
5/16	1-3/8	1-5/8	.091	1.750	Round	334H138R
	1-3/4	2	.091	1.750	Round	334H134R
	2-1/4	2-1/2	.091	1.750	Square	334H214S
	2-1/2	2-3/4	.091	1.750	Round	334H212R
	2-1/2	2-3/4	.091	2.00	Square	334H212S
3/8	1-1/2	1-3/4	.091	1.50	Round	334I112R
	1-3/4	2	.091	1.50	Round	334I134R
	2-1/4	2-1/2	.091	1.50	Round	334I214R
	2-1/4	2-1/2	.091	1.50	Square	334I214S
	2-1/2	2-3/4	.091	1.50	Round	334I212R
	2-1/2	2-3/4	.091	1.50	Square	334I212S

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Lynch Pins Zinc Plated Steel				
Nominal Diameter (in)	Effective Length (in)	Shank Length (in)	Wire Diameter (in)	Part No.
(D)	(EL)	(SL)	(T)	
3/16	1	1-1/4	0.118	331E1
	1-1/4	1-9/16	0.138	331E114
	1-5/16	1-9/16	0.138	331E1516
1/4	1-1/4	1-9/16	0.138	331G114
5/16	1-1/4	1-9/16	0.138	331H114
	1-3/8	1-3/4	0.138	331H138
	1-3/4	2	0.138	331H134
7/16	1-11/32	1-9/16	0.138	331J11132
	1-3/8	1-3/4	0.138	331J138
	1-1/2	1-3/4	0.177	331J112
	1-5/8	1-15/16	0.138	331J158
	1-3/4	2-1/4	0.177	331J134



Aluminum Blind Rivets			
Rivet Diameter	Hole Size & Drill No.	Grip Range	Part No.
3/32" (.094)	.097 - .100	.063 - .125	AA32R
	#41	.126 - .250	AA34R
1/8" (.125)	.129 - .133	.063 - .125	AA42R
	#30	.188 - .250	AA44R
		.312 - .375	AA46R
5/32" (.156)	.160 - .164	.126 - .250	AA54R
	#20	.251 - .375	AA56R
		.367 - .500	AA58R
3/16" (.187)	.192 - .196	.062 - .125	AA62R
	.192 - .196	.126 - .250	AA64R
	#11	.251 - .375	AA66R
		.376 - .50	AA68R
	.192 - .196	.501 - .625	AA610R
3/16" (.187)	.192 - .196	.376 - .500	AA68L*

*Large Flange
Aluminum rivet/Aluminum mandrel
Button Head IFJ Grade II



Woodruff Keys



Woodruff Keys					
Ind. No.	Dimenions (in)	Part No.	Ind. No.	Dimenions (in)	Part No.
#201/202	1/16 × 1/4	327A14	#17/709	7/32 × 1-1/8	327F118
#206/202.5	1/16 × 5/16	327A516	#20/710	7/32 × 1-1/4	327F114
#211/203	1/16 × 3/8	327A38	#91/806	1/4 × 3/4	327G34
#1/204	1/16 × 1/2	327A12	#A/807	1/4 × 7/8	327G78
#207/302.5	3/32 × 5/16	327B516	#141	1/4 × 31/32	327G3132
#212/303	3/32 × 3/8	327B38	#15/808	1/4 × 1	327G1
#2/304	3/32 × 1/2	327B12	#18/809	1/4 × 1-1/8	327G118
#4/305	3/32 × 5/8	327B58	#21/810	1/4 × 1-1/4	327G114
#213/403	1/8 × 3/8	327C38	#22/811	1/4 × 1-3/8	327G138
#3/404	1/8 × 1/2	327C12	#24/812	1/4 × 1-1/2	327G112
#5/405	1/8 × 5/8	327C58	#27/817	1/4 × 2-1/8	327G218
#7/406	1/8 × 3/4	327C34	#RX/822-1	1/4 × 2-3/4	327G234
#6/505	5/32 × 5/8	327D58	#B/1008	5/16 × 1	327H1
#8/506	5/32 × 3/4	327D34	#D/1010	5/16 × 1-1/4	327H114
#10/507	5/32 × 7/8	327D78	#23/1011	5/16 × 1-3/8	327H138
#61/506	3/16 × 5/8	327E58	#25/1012	5/16 × 1-1/2	327H112
#9/606	3/16 × 3/4	327E34	#28/1017	5/16 × 2-1/8	327H218
#11/607	3/16 × 7/8	327E78	#152/1208	3/8 × 1	327I1
#13/608	3/16 × 1	327E1	#E/1210	3/8 × 1-1/4	327I114
#16/609	3/16 × 1-1/8	327E118	#F/1211	3/8 × 1-3/8	327I138
#19/610	3/16 × 1-1/4	327E114	#G/1212	3/8 × 1-1/2	327I112
#26/617	3/16 × 2-1/8	327E218	#29/1217	3/8 × 2-1/8	327I218
#12/707	7/32 × 7/8	327F78	#TX/1222-1	3/8 × 2-3/4	327I234
#14/708	7/32 × 1	327F1			

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All Thread Rods (3ft.)

B7 Coarse Plain Finish	
Dia.	Part No.
1/4" – 20	322G
5/16" – 18	322H
3/8" – 16	322I
7/16" – 14	322J
1/2" – 13	322K
9/16" – 12	322L
5/8" – 11	322M
3/4" – 10	322N
7/8" – 9	322O
1" – 8	322P
1-1/4" – 7	322Q
1-1/2" – 6	322R

Grade 2 Coarse Zinc Plated	
Dia.	Part No.
#6 – 32	324C
#8 – 32	324D
#10 – 24	324E
1/4" – 20	324G
5/16" – 18	324H
3/8" – 16	324I
7/16" – 14	324J
1/2" – 13	324K
9/16" – 12	324L
5/8" – 11	324M
3/4" – 10	324N
1" – 8	324P

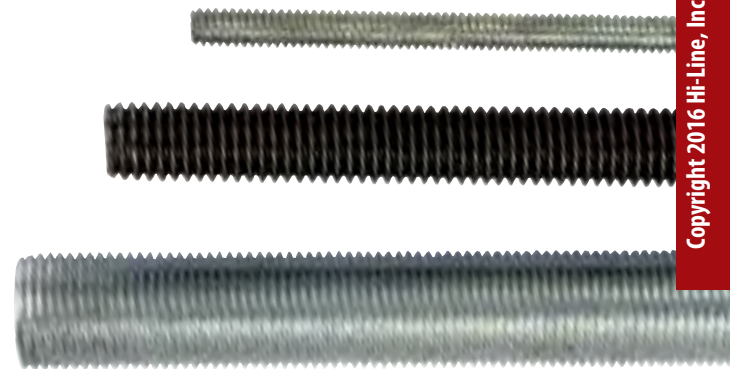
Grade 2 Fine Zinc Plated	
Dia.	Part No.
#10 – 32	323EF
1/4" – 28	323GF
5/16" – 24	323HF
3/8" – 24	323IF
7/16" – 20	323JF
1/2" – 20	323KF
9/16" – 18	323LF
5/8" – 18	323MF
3/4" – 16	323NF
1" – 14	323PF

Coarse 18-8 Stainless Steel	
Dia.	Part No.
1/4" – 20	724G
5/16" – 18	724H
3/8" – 16	724I
1/2" – 13	724K
5/8" – 11	724M
3/4" – 10	724N

B7 Alloy Threaded Rod

- 125,000 PSI minimum tensile strength at room temperatures**
- Conforms to ASTM A193 & ASME SA 193 B7
- Used in piping & flange applications requiring a high-strength ferrous steel bolt capable of operating in temperature range of -20°F to +750°F

**For maximum allowable stress value at a specific temperature refer to ASME Boiler & Pressure Code



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All Thread Rods - Metric (1 meter)

Metric A193-B7 Plain Finish	
Dia.	Part No.
M5-.80	825580
M6-1.00	8256100
M8-1.25	8258125
M10-1.50	82510150
M12-1.75	82512175
M14-2.00	82514200
M16-2.00	82516200
M18-2.50	82518250
M20-2.50	82520250
M24-3.00	82524300

Metric Class 4.6 Zinc Plated	
Dia.	Part No.
M4-.70	824470
M5-.80	824580
M6-1.00	8246100
M8-1.25	8248125
M10-1.50	82410150
M12-1.75	82412175
M14-2.00	82414200
M16-2.00	82416200
M18-2.50	82418250
M20-2.50	82420250
M24-3.00	82424300

Metric A2 Stainless Steel	
Dia.	Part No.
M4-.70	827470
M5-.80	827580
M6-1.00	8276100
M8-1.25	8278125
M10-1.50	82710150
M12-1.75	82712175
M14-2.00	82714200
M16-2.00	82716200
M18-2.50	82718250
M20-2.50	82720250
M24-3.00	82724300



Roll Pins



Roll Pins Zinc Plated									
Diameter Length	Part No.								
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
3/8"	43B38	43C38	43D38	–	–	–	–	–	–
1/2"	43B12	43C12	43D12	43E12	43F12	43G12	–	–	–
5/8"	43B58	43C58	43D58	43E58	43F58	43G58	–	–	–
3/4"	43B34	43C34	43D34	43E34	43F34	43G34	43H34	43I34	–
1"	43B1	43C1	43D1	43E1	43F1	43G1	43H1	43I1	43K1
1-1/4"	–	43C114	43D114	43E114	43F114	43G114	43H114	43I114	43K114
1-1/2"	–	43C112	43D112	43E112	43F112	43G112	43H112	43I112	43K112
1-3/4"	–	–	43D134	–	43F134	43G134	43H134	43I134	43K134
2"	–	–	43D2	43E2	43F2	43G2	43H2	43I2	43K2
2-1/2"	–	–	–	–	–	43G212	43H212	43I212	43K212
3"	–	–	–	–	–	43G3	43H3	43I3	43K3
4"	–	–	–	–	–	–	43H4	43I4	43K4

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Roll Pins #420 Stainless Steel									
Diameter Length	Part No.								
	1/16"	3/32"	1/8"	5/32"	3/16"	1/4"	5/16"	3/8"	1/2"
3/8"	63B38	63C38	63D38	–	–	–	–	–	–
1/2"	63B12	63C12	63D12	63E12	63F12	63G12	–	–	–
5/8"	63B58	63C58	63D58	63E58	63F58	63G58	–	–	–
3/4"	63B34	63C34	63D34	63E34	63F34	63G34	63H34	63I34	–
1"	63B1	63C1	63D1	63E1	63F1	63G1	63H1	63I1	–
1-1/4"	–	63C114	63D114	63E114	63F114	63G114	63H114	63I114	63K114
1-1/2"	–	63C112	63D112	63E112	63F112	63G112	63H112	63I112	63K112
1-3/4"	–	–	63D134	–	63F134	63G134	63H134	63I134	63K134
2"	–	–	63D2	63E2	63F2	63G2	63H2	63I2	63K2
2-1/2"	–	–	–	–	–	63G212	63H212	63I212	63K212
3"	–	–	–	–	–	63G3	63H3	63I3	63K3
4"	–	–	–	–	–	–	–	–	63K4



Rivet Nuts – Knurled Flange, Steel, Zinc Plated			
Screw Size	Length (in)	Grip Range	Part No.
#6 – 32	.420	.020/.080	349C420
#6 – 32	.470	.080/.130	349C470
#8 – 32	.420	.020/.080	349D420
#8 – 32	.470	.080/.130	349D470
#10 – 24	.475	.020/.130	349E475
#10 – 24	.585	.130/.225	349E585
#10 – 32	.475	.020/.130	349EF475
#10 – 32	.585	.130/.225	349EF585
1/4" – 20	.580	.027/.165	349G580
1/4" – 20	.680	.165/.260	349G680
5/16" – 18	.690	.027/.150	349H690
5/16" – 18	.805	.150/.312	349H805
3/8" – 16	.690	.027/.150	349I690
3/8" – 16	.805	.150/.312	349I805



Rivet Nuts – Knurled Plated, Metric Steel, Zinc Plated			
Screw Size	Length (mm)	Grip Range	Part No.
M4 – .70	10.9	0.50/2.03	350M4
M4 – .70	12.3	2.03/3.30	350M4L
M5 – .80	12.3	0.50/3.30	350M5
M5 – .80	15	3.30/5.71	350M5L
M6 – 1.00	14.9	0.68/4.19	350M6
M6 – 1.00	17.5	4.19/6.60	350M6L
M8 – 1.25	17.5	0.68/3.81	350M8
M8 – 1.25	20.4	3.81/7.92	350M8L



Keystocks – Square, 1 Ft. Length, Zinc Plated			
Size	Part No.	Size	Part No.
1/8"	326D	1/2"	326K
3/16"	326F	9/16"	326L
1/4"	326G	5/8"	326M
5/16"	326H	3/4"	326N
3/8"	326I	7/8"	326O
7/16"	326J	1"	326P



Rivet Nuts – Steel, Zinc Plated			
Screw Size	Length (in)	Grip Range (in)	Part No.
#6 – 32	.438	.010/.080	35C438
#8 – 32	.438	.010/.080	35D438
#8 – 32	.500	.080/.120	35D500
#10 – 24	.531	.010/.080	35E531
#10 – 24	.594	.080/.130	35E594
#10 – 32	.531	.010/.080	35EF531
#10 – 32	.594	.080/.130	35EF594
1/4" – 20	.625	.010/.080	35G625
1/4" – 20	.687	.080/.140	35G687
1/4" – 20	.750	.140/.200	35G750





Well Nuts



Well Nuts								
Thread	Head Diameter (in)	Overall Length (in)	Shank Length (in)	Shank Diameter (in)	Head Thickness (in)	Hole Size	Grip Range	Part No.
#6-32	0.452	0.499	0.437	0.312	0.062	5/16"	.015-.156	512C
#6-32	0.554	0.981	0.946	0.240	0.035	1/4"	.375-.607	512CXL
#8-32	0.438	0.499	0.447	0.312	0.052	5/16"	.015-.156	512D
#8-32	0.750	0.575	0.500	0.312	0.062	5/16"	.015-.172	512DL
#10-24	0.562	0.767	0.580	0.375	0.187	3/8"	.030-.227	512E
#10-32	0.500	0.554	0.518	0.377	0.036	3/8"	.015-.192	512EF
#10-32	0.562	0.665	0.625	0.377	0.040	3/8"	.035-.232	512EFL
#10-32	0.750	0.703	0.625	0.375	0.078	3/8"	.030-.227	512EFXL
#10-32	0.562	1.051	1.000	0.375	0.051	3/8"	.312-.643	512EFXXL
1/4"-20	0.625	0.641	0.594	0.500	0.051	1/2"	.015-.111	512G
1/4"-20	0.635	0.801	0.750	0.500	0.051	1/2"	.187-.343	512GL
1/4"-20	0.740	0.829	0.642	0.500	0.187	1/2"	.031-.187	512GXL
1/4"-20	0.635	1.051	1.000	0.500	0.051	1/2"	.250-.457	512GXXL
5/16"-18	0.875	0.725	0.600	0.620	0.125	5/8"	.015-.187	512H

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Helical Thread

Helical thread inserts are used to repair damaged threaded holes or to reinforce threads which may be subject to failure. They are suitable for application with almost any material. Meet or exceed most applicable specifications, including MS122076 series, 124651 series, 21208, 21209, 33537, Mil-1-8846 and Mil-F-5577.

Helical Thread Repair Kits

Metric (Inserts, tap & tool included)		Coarse (Inserts, tap & tool included)		Fine (Inserts, tap & tool included)	
Size	Part No.	Size	Part No.	Part No.	Size
M6 – 1.00	346M6100	#10 – 24	347E	#10 – 32	347EF
M7 – 1.00	346M7100	1/4" – 20	347G	1/4" – 28	347GF
M8 – 1.25	346M8125	5/16" – 18	347H	5/16" – 24	347HF
M10 – 1.50	346M10150	3/8" – 16	347I	3/8" – 24	347IF
M12 – 1.75	346M12175	7/16" – 14	347J	7/16" – 20	347JF
M14 – 2.00	346M14200	1/2" – 13	347K	1/2" – 20	347KF
M16 – 2.0	346M16200	9/16" – 12	347L	9/16" – 18	347LF
		5/8" – 11	347M	5/8" – 18	347MF
		3/4" – 10	347N	3/4" – 16	347NF



Individual Helical Thread Repair Inserts

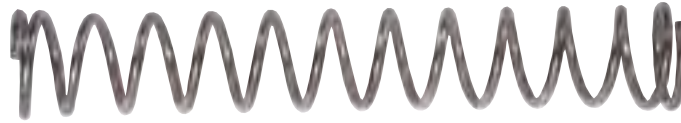
Metric Single Size Package				Coarse Single Size Package				Fine Single Size Package			
Size	Qty. Per Pk	Drill Size	Part No.	Size	Qty. Per Pk	Drill Size	Part No.	Size	Qty. Per Pk	Drill Size	Part No.
M6 – 1.00	12	1/4	349M6100	#10 – 24	12	13/64	348EC	#10 – 32	12	13/64	348EF
M7 – 1.00	12	9/32	349M7100	1/4" – 20	12	17/64	348GC	1/4" – 28	12	17/64	348GF
M8 – 1.25	12	21/64	349M8125	5/16" – 18	10	21/64	348HC	5/16" – 24	10	21/64	348HF
M10 – 1.50	12	13/32	349M10150	3/8" – 16	10	25/64	348IC	3/8" – 24	10	25/64	348IF
M12 – 1.75	6	31/64	349M12175	7/16" – 14	6	29/64	348JC	7/16" – 20	6	29/64	348JF
M14 – 2.00	6	37/64	349M14200	1/2" – 13	6	17/32	348KC	1/2" – 20	6	33/64	348KF
M16 – 2.00	6	21/32	349M16200	9/16" – 12	6	19/32	348LC	9/16" – 18	6	37/64	348LF
M8 – 1.00	12	21/64	349M8100	5/8" – 11	6	21/32	348MC	5/8" – 18	6	41/64	348MF
M10 – 1.00	12	13/32	349M10100	3/4" – 10	4	25/32	348NC	3/4" – 16	4	49/64	348NF
M10 – 1.25	12	13/32	349M10125								
M12 – 1.25	6	31/64	349M12125								
M12 – 1.50	6	31/64	349M12150								
M14 – 1.50	6	9/16	349M14150								
M16 – 1.50	6	21/32	349M16150								

Length = Dia. × 1.5



Springs

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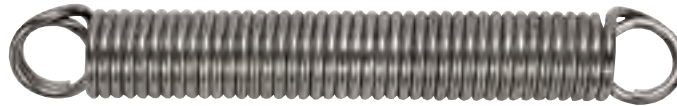
Compression Springs

Description	Part No.	Description	Part No.
1/8" OD x 1-3/8" L x 30GA/.014	SPC1101	1/2" OD x 2-3/4" L x 15GA/.072	SPC2603
5/32" OD x 1-3/8" L x 28GA/.016	SPC1301	1/2" OD x 3" L x 18GA/.047	SPC2604
3/16" OD x 1" L x 31GA/.013	SPC1401	9/16" OD x 1-3/8" L x 15GA/.072	SPC2701
3/16" OD x 1-3/8" L x 31GA/.013	SPC1402	9/16" OD x 3" L x 17GA/.054	SPC2702
3/16" OD x 1-3/8" L x 28GA/.016	SPC1403	5/8" OD x 1-3/4" L x 13GA/.091	SPC2804
3/16" OD x 1-5/16" L x 24GA/.023	SPC1404	5/8" OD x 2-1/2" L x 12GA/.105	SPC2801
3/16" OD x 1-3/8" L x 22GA/.028	SPC1405	5/8" OD x 2-3/4" L x 17GA/.054	SPC2802
7/32" OD x 1-3/4" L x 28GA/.016	SPC1501	5/8" OD x 3" L x 14GA/.080	SPC2803
7/32" OD x 1-3/8" L x 25GA/.020	SPC1502	11/16" OD x 1-1/4" L x 13GA/.091	SPC2901
7/32" OD x 1-3/8" L x 24GA/.023	SPC1503	11/16" OD x 3" L x 18GA/.047	SPC2902
7/32" OD x 1-3/8" L x 22GA/.028	SPC1504	11/16" OD x 4-1/4" L x 13GA/.091	SPC2903
1/4" OD x 1-7/8" L x 24GA/.023	SPC1601	3/4" OD x 2" L x 14GA/.080	SPC3001
1/4" OD x 1-3/8" L x 25GA/.020	SPC1602	3/4" OD x 3-3/8" L x 18GA/.047	SPC3002
9/32" OD x 1-3/8" L x 22GA/.028	SPC1801	3/4" OD x 4" L x 18GA/.047	SPC3003
5/16" OD x 1-1/4" L x 19GA/.041	SPC2001	3/4" OD x 3" L x 12GA/.105	SPC3004
5/16" OD x 1-3/8" L x 21GA/.032	SPC2002	3/4" OD x 3-1/2" L x 14GA/.080	SPC3005
5/16" OD x 1-1/2" L x 24GA/.023	SPC2003	3/16" OD x 1" L x 31GA/.013	SPC3006
5/16" OD x 1-1/2" L x 19GA/.041	SPC2004	3/4" OD x 6" L x 12GA/.105	SPC3007
5/16" OD x 1-5/8" L x 21GA/.032	SPC2005	13/16" OD x 3/4" L x 11GA/.120	SPC3101
5/16" OD x 2" L x 18GA/.047	SPC2006	13/16" OD x 3-1/4" L x 16GA/.062	SPC3102
11/32" OD x 1-15/16" L x 19GA/.041	SPC2101	13/16" OD x 10" L x 11GA/.120	SPC3103
11/32" OD x 2-3/4" L x 18GA/.047	SPC2102	7/8" OD x 3" L x 12GA/.105	SPC3201
3/8" OD x 1-1/4" L x 23GA/.026	SPC2201	7/8" OD x 3-7/16" L x 14GA/.080	SPC3202
3/8" OD x 1-1/2" L x 23GA/.026	SPC2202	7/8" OD x 6" L x 13GA/.091	SPC3203
3/8" OD x 1-15/16" L x 19GA/.041	SPC2203	29/32" OD x 2-13/16" L x 20GA/.035	SPC3301
3/8" OD x 3" L x 18GA/.047	SPC2204	29/32" OD x 1-1/16" L x 14GA/.080	SPC3302
3/8" OD x 2-1/4" L x 16GA/.062	SPC2205	15/16" OD x 2" L x 14GA/.080	SPC3401
13/32" OD x 1" L x 18GA/.047	SPC2301	15/16" OD x 4" L x 14GA/.080	SPC3402
13/32" OD x 1-3/16" L x 18GA/.047	SPC2302	1" OD x 6" L x 12GA/.105	SPC3501
13/32" OD x 2" L x 16GA/.062	SPC2303	1" OD x 3" L x 11GA/.120	SPC3502
7/16" OD x 1-7/16" L x 19GA/.041	SPC2401	1" OD x 3-1/2" L x 8GA/.162	SPC3503
7/16" OD x 2" L x 17GA/.054	SPC2402	1" OD x 3-3/4" L x 10GA/.135	SPC3504
7/16" OD x 2-1/4" L x 19GA/.041	SPC2403	3/16" OD x 1" L x 31GA/.013	SPC3701
15/32" OD x 2-3/8" L x 14GA/.080	SPC2501	1-1/4" OD x 4-5/8" L x 11GA/.120	SPC3801
1/2" OD x 2" L x 18GA/.047	SPC2601	53/64" OD x 4-1/4" L x 11GA/.120	SPC3901
1/2" OD x 2-1/2" L x 16GA/.06	SPC2602		

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Extension Springs			
Description	Part No.	Description	Part No.
1/8" OD × 1-7/8" L × 28GA/.016	SPE1101	3/8" OD × 4-1/2" L × 18GA/.047	SPE2205
5/32" OD × 1-7/8" L × 25GA/.020	SPE1301	3/8" OD × 6-1/4" L × 19GA/.041	SPE2206
3/16" OD × 1-13/16" L × 21GA/.032	SPE1401	7/16" OD × 2-3/4" L × 20GA/.035	SPE2401
3/16" OD × 2" L × 25GA/.020	SPE1402	7/16" OD × 3-11/16" L × 18GA/.047	SPE2402
7/32" OD × 1-7/8" L × 24GA/.023	SPE1501	7/16" OD × 5" L × 18GA/.047	SPE2403
7/32" OD × 2" L × 21GA/.032	SPE1502	7/16" OD × 6-3/16" L × 17GA/.054	SPE2404
7/32" OD × 3-9/16" L × 24GA/.023	SPE1503	15/32" OD × 4-1/2" L × 19GA/.041	SPE2501
1/4" OD × 1-7/8" L × 25GA/.020	SPE1601	1/2" OD × 4-1/2" L × 16GA/.062	SPE2601
1/4" OD × 1-7/8" L × 22GA/.028	SPE1602	1/2" OD × 5" L × 15GA/.072	SPE2602
1/4" OD × 2-1/4" L × 23GA/.026	SPE1603	1/2" OD × 1-5/8" L × 15GA/.072	SPE2603
1/4" OD × 2-1/2" L × 28GA/.016	SPE1604	1/2" OD × 3-1/2" L × 19GA/.041	SPE2604
1/4" OD × 3" L × 22GA/.028	SPE1605	9/16" OD × 3-5/8" L × 15GA/.072	SPE2701
1/4" OD × 5" L × 21GA/.032	SPE1606	9/16" OD × 4" L × 18GA/.047	SPE2702
1/4" OD × 6-1/2" L × 19GA/.041	SPE1607	9/16" OD × 6" L × 15GA/.072	SPE2703
17/64" OD × 4-1/8" L × 19GA/.041	SPE1701	5/8" OD × 6" L × 19GA/.041	SPE2801
9/32" OD × 1-7/8" L × 23GA/.026	SPE1801	5/8" OD × 3-1/4" L × 15GA/.072	SPE2802
9/32" OD × 2-1/2" L × 25GA/.020	SPE1802	5/8" OD × 5-7/8" L × 15GA/.072	SPE2803
9/32" OD × 2-7/16" L × 20GA/.035	SPE1803	11/16" OD × 4-3/4" L × 13GA/.091	SPE2901
9/32" OD × 6-1/2" L × 18GA/.047	SPE1804	3/4" OD × 2-3/16" L × 12GA/.105	SPE3001
5/16" OD × 1-1/8" L × 19GA/.041	SPE2001	3/4" OD × 2-3/8" L × 12GA/.105	SPE3002
5/16" OD × 1-1/2" L × 25GA/.020	SPE2002	3/4" OD × 2-5/8" L × 12GA/.105	SPE3003
5/16" OD × 1-11/16" L × 19GA/.041	SPE2003	3/4" OD × 2-13/16" L × 12GA/.105	SPE3004
5/16" OD × 3" L × 22GA/.029	SPE2004	3/4" OD × 3" L × 12GA/.105	SPE3005
5/16" OD × 3-7/16" L × 19GA/.041	SPE2005	3/4" OD × 3-1/2" L × 16GA/.062	SPE3006
5/16" OD × 5" L × 21GA/.032	SPE2006	3/4" OD × 3-3/8" L × 12GA/.105	SPE3007
5/16" OD × 6" L × 19GA/.041	SPE2007	3/4" OD × 4-5/32" L × 12GA/.105	SPE3008
11/32" OD × 1-7/8" L × 23GA/.026	SPE2101	3/4" OD × 6-1/2" L × 13GA/.091	SPE3009
11/32" OD × 1-1/2" L × 22GA/.029	SPE2102	13/16" OD × 4" L × 11GA/.120	SPE3101
11/32" OD × 2" L × 20GA/.035	SPE2103	7/8" OD × 4-1/4" L × 13GA/.091	SPE3201
11/32" OD × 4" L × 20GA/.035	SPE2104	7/8" OD × 8-1/2" L × 16GA/.062	SPE3202
3/8" OD × 2" L × 20GA/.035	SPE2201	1" OD × 7" L × 10GA/.135	SPE3501
3/8" OD × 3" L × 19GA/.041	SPE2202	1-1/16" OD × 7" L × 12GA/.105	SPE3601
3/8" OD × 4" L × 20GA/.035	SPE2203	1-1/8" OD × 7-1/2" L × 13GA/.091	SPE3701
3/8" OD × 4-1/2" L × 22GA/.029	SPE2204		



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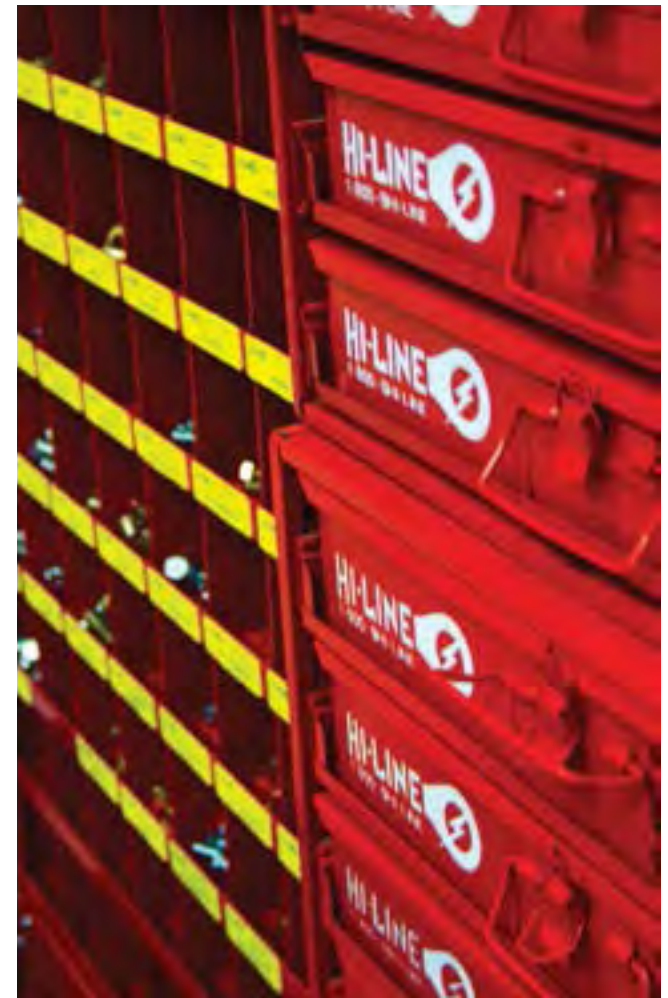
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AN3 Bolt			
Cadmium Plated Carbon Steel, #10 – 32 Thread, 125,000 PSI Tensile Strength			
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
15/32	1/16	AN33	AN33A
17/32	1/8	AN34	AN34A
21/32	1/4	AN35	AN35A
25/32	3/8	AN36	AN36A
29/32	1/2	AN37	AN37A
1-1/32	5/8	AN310	AN310A
1-5/32	3/4	AN311	AN311A
1-9/32	7/8	AN312	AN312A
1-13/32	1	AN313	AN313A
1-17/32	1-1/8	AN314	AN314A
1-21/32	1-1/4	AN315	AN315A
1-25/32	1-3/8	AN316	AN316A
1-29/32	1-1/2	AN317	AN317A
2-1/32	1-5/8	AN320	AN320A
2-5/32	1-3/4	AN321	AN321A
2-9/32	1-7/8	AN322	AN322A
2-13/32	2	AN323	AN323A
2-17/32	2-1/8	AN324	AN324A
2-21/32	2-1/4	AN325	AN325A
2-25/32	2-3/8	AN326	AN326A
2-29/32	2-1/2	AN327	AN327A
3-1/32	2-5/8	AN330	AN330A
3-5/32	2-3/4	AN331	AN331A
3-9/32	2-7/8	AN332	AN332A
3-13/32	3	AN333	AN333A
3-17/32	3-1/8	AN334	AN334A
3-21/32	3-1/4	AN335	AN335A
3-25/32	3-3/8	AN336	AN336A
3-29/32	3-1/2	AN337	AN337A
4-1/32	3-5/8	AN340	AN340A
4-5/32	3-3/4	AN341	AN341A
4-9/32	3-7/8	AN342	AN342A
4-13/32	4	—	AN343A
4-17/32	4-1/8	—	AN344A
4-21/32	4-1/4	—	AN345A

AN3H Bolt		
Cadmium Plated Carbon Steel, #10 – 32 Thread		
Length (in)	Grip (in)	Drilled Head Undrilled Shank
15/32	1/16	AN3H3A
17/32	1/8	AN3H4A
21/32	1/4	AN3H5A
25/32	3/8	AN3H6A
29/32	1/2	AN3H7A
1-1/32	5/8	AN3H10A
1-5/32	3/4	AN3H11A
1-9/32	7/8	AN3H12A
1-13/32	1	AN3H13A
1-17/32	1-1/8	AN3H14A
1-21/32	1-1/4	AN3H15A
1-25/32	1-3/8	AN3H16A

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AN4 Bolt							
Cadmium Plated Carbon Steel, 1/4" – 28 Thread							
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank	Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
15/32	1/16	AN43	AN43A	3-13/32	2-15/16	AN433	AN433A
17/32	1/16	AN44	AN44A	3-17/32	3-1/16	AN434	AN434A
21/32	3/16	AN45	AN45A	3-21/32	3-3/16	AN435	AN435A
25/32	5/16	AN46	AN46A	3-25/32	3-5/16	AN436	AN436A
29/32	7/16	AN47	AN47A	3-29/32	3-7/16	AN437	AN437A
1-1/32	9/16	AN410	AN410A	4-1/32	3-9/16	AN440	AN440A
1-5/32	11/16	AN411	AN411A	4-5/32	3-11/16	AN441	AN441A
1-9/32	13/16	AN412	AN412A	4-9/32	3-13/16	AN442	AN442A
1-13/32	15/16	AN413	AN413A	4-13/32	3-15/16	AN443	AN443A
1-17/32	1-1/16	AN414	AN414A	4-17/32	4-1/16	AN444	AN444A
1-21/32	1-3/16	AN415	AN415A	4-21/32	4-3/16	AN445	AN445A
1-25/32	1-5/16	AN416	AN416A	4-25/32	4-5/16	AN446	AN446A
1-29/32	1-7/16	AN417	AN417A	4-29/32	4-7/16	AN447	AN447A
2-1/32	1-9/16	AN420	AN420A	5-1/32	4-9/16	AN450	AN450A
2-5/32	1-11/16	AN421	AN421A	5-5/32	4-11/16	-	AN451A
2-9/32	1-13/16	AN422	AN422A	5-9/32	4-13/16	-	AN452A
2-13/32	1-15/16	AN423	AN423A	5-13/32	4-15/16	-	AN453A
2-17/32	2-1/16	AN424	AN424A	5-17/32	5-1/16	-	AN454A
2-21/32	2-3/16	AN425	AN425A	5-21/32	5-3/16	-	AN455A
2-25/32	2-5/16	AN426	AN426A	5-25/32	5-5/16	-	AN456A
2-29/32	2-7/16	AN427	AN427A	5-29/32	5-7/16	-	AN457A
3-1/32	2-9/16	AN430	AN430A	6-1/32	5-9/16	-	AN460A
3-5/32	2-11/16	AN431	AN431A	6-5/32	5-11/16	-	AN461A
3-9/32	2-13/16	AN432	AN432A	6-9/32	5-13/16	-	AN462A

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AN4H Bolt Cadmium Plated Carbon Steel, 1/4" – 28 Thread								
Length (in)	Grip (in)	Drilled Head Undrilled Shank	Length (in)	Grip (in)	Drilled Head Undrilled Shank	Length (in)	Grip (in)	Drilled Head Undrilled Shank
15/32	1/16	AN4H3A	1-13/32	15/16	AN4H13A	2-13/32	1-15/16	AN4H23A
17/32	1/16	AN4H4A	1-17/32	1-1/16	AN4H14A	2-17/32	2-1/16	AN4H24A
21/32	3/16	AN4H5A	1-21/32	1-3/16	AN4H15A	2-21/32	2-3/16	AN4H25A
25/32	5/16	AN4H6A	1-25/32	1-5/16	AN4H16A	2-25/32	2-5/16	AN4H26A
29/32	7/16	AN4H7A	1-29/32	1-7/16	AN4H17A	2-29/32	2-7/16	AN4H27A
1-1/32	9/16	AN4H10A	2-1/32	1-9/16	AN4H20A	3-1/32	2-9/16	AN4H30A
1-5/32	11/16	AN4H11A	2-5/32	1-11/16	AN4H21A			
1-9/32	13/16	AN4H12A	2-9/32	1-13/16	AN4H22A			

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AN5 Bolt Cadmium Plated Carbon Steel, 5/16" – 24 Thread							
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank	Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
19/32	1/16	AN54	AN54A	3-11/32	2-13/16	AN532	AN532A
23/32	3/16	AN55	AN55A	3-15/32	2-15/16	AN533	AN533A
27/32	5/16	AN56	AN56A	3-19/32	3-1/16	AN534	AN534A
31/32	7/16	AN57	AN57A	3-23/32	3-3/16	AN535	AN535A
1-3/32	9/16	AN510	AN510A	3-27/32	3-5/16	AN536	AN536A
1-7/32	11/16	AN511	AN511A	3-31/32	3-7/16	AN537	AN537A
1-11/32	13/16	AN512	AN512A	4-3/32	3-9/16	AN540	AN540A
1-15/32	15/16	AN513	AN513A	4-7/32	3-11/16	AN541	AN541A
1-19/32	1-1/16	AN514	AN514A	4-11/32	3-13/16	AN542	AN542A
1-23/32	1-3/16	AN515	AN515A	4-15/32	3-15/16	AN543	AN543A
1-27/32	1-5/16	AN516	AN516A	4-19/32	4-1/16	AN544	AN544A
1-31/32	1-7/16	AN517	AN517A	4-23/32	4-3/16	AN545	AN545A
2-3/32	1-9/16	AN520	AN520A	4-27/32	4-5/16	AN546	AN546A
2-7/32	1-11/16	AN521	AN521A	4-31/32	4-7/16	AN547	AN547A
2-11/32	1-13/16	AN522	AN522A	5-3/32	4-9/16	AN550	AN550A
2-15/32	1-15/16	AN523	AN523A	5-7/32	4-11/16	AN551	AN551A
2-19/32	2-1/16	AN524	AN524A	5-11/32	4-13/16	AN552	AN552A
2-23/32	2-3/16	AN525	AN525A	5-15/32	4-15/16	AN553	AN553A
2-27/32	2-5/16	AN526	AN526A	5-19/32	5-1/16	AN554	AN554A
2-31/32	2-7/16	AN527	AN527A	5-23/32	5-3/16	AN555	AN555A
3-3/32	2-9/16	AN530	AN530A	5-27/32	5-5/16	–	AN556A
3-7/32	2-11/16	AN531	AN531A	5-31/32	5-7/16	AN557	–

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AN6 Bolt							
Cadmium Plated Carbon Steel, 3/8" – 24 Thread							
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank	Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
45/64	1/16	AN65	AN65A	3-37/64	2-15/16	AN634	AN634A
53/64	3/16	AN66	AN66A	3-45/64	3-1/16	AN635	AN635A
61/64	5/16	AN67	AN67A	3-53/64	3-3/16	AN636	AN636A
1-5/64	7/16	AN610	AN610A	3-61/64	3-5/16	–	AN637A
1-13/64	9/16	AN611	AN611A	4-5/64	3-7/16	AN640	AN640A
1-21/64	11/16	AN612	AN612A	4-13/64	3-9/16	AN641	AN641A
1-29/64	13/16	AN613	AN613A	4-21/64	3-11/16	AN642	AN642A
1-37/64	15/16	AN614	AN614A	4-29/64	3-13/16	AN643	AN643A
1-45/64	1-1/16	AN615	AN615A	4-37/64	3-15/16	AN644	AN644A
1-53/64	1-3/16	AN616	AN616A	4-45/64	4-1/16	AN645	AN645A
1-61/64	1-5/16	AN617	AN617A	4-53/64	4-3/16	AN646	AN646A
2-5/64	1-7/16	AN620	AN620A	4-61/64	4-5/16	AN647	AN647A
2-13/64	1-9/16	AN621	AN621A	5-5/64	4-7/16	AN650	AN650A
2-21/64	1-11/16	AN622	AN622A	5-13/64	4-9/16	–	AN651A
2-29/64	1-13/16	AN623	AN623A	5-21/64	4-11/16	–	AN652A
2-37/64	1-15/16	AN624	AN624A	5-29/64	4-13/16	–	AN653A
2-45/64	2-1/16	AN625	AN625A	5-37/64	4-15/16	–	AN654A
2-53/64	2-3/16	AN626	AN626A	5-45/64	5-1/16	–	AN655A
2-61/64	2-5/16	AN627	AN627A	5-53/64	5-3/16	–	AN656A
3-5/64	2-7/16	AN630	AN630A	5-61/64	5-5/16	–	AN657A
3-13/64	2-9/16	AN631	AN631A	6-5/64	5-7/16	–	AN660A
3-21/64	2-11/16	AN632	AN632A	6-13/64	5-9/16	–	AN661A
3-29/64	2-13/16	AN633	AN633A	6-29/64	5-13/16	–	AN663A

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AN7 Bolt Cadmium Plated Carbon Steel, 7/16" – 20 Thread			
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
1-3/32	1/16	AN710	AN710A
1-7/32	9/16	AN711	AN711A
1-11/32	11/16	AN712	AN712A
1-15/32	13/16	AN713	AN713A
1-19/32	15/16	AN714	AN714A
1-23/32	1-1/16	AN715	AN715A
1-27/32	1-3/16	AN716	AN716A
1-31/32	1-5/16	AN717	AN717A
2-3/32	1-7/16	AN720	AN720A
2-7/32	1-9/16	AN721	AN721A
2-11/32	1-11/16	AN722	AN722A
2-15/32	1-13/16	AN723	AN723A
2-19/32	1-15/16	AN724	AN724A
2-23/32	2-1/16	AN725	AN725A
2-27/32	2-3/16	AN726	AN726A
2-31/32	2-5/16	AN727	AN727A
3-3/32	2-7/16	AN730	AN730A
3-7/32	2-9/16	AN731	AN731A
3-11/32	2-11/16	AN732	AN732A
3-15/32	2-13/16	–	AN733A
3-19/32	2-15/16	AN734	AN734A
3-23/32	3-1/16	AN735	AN735A
3-27/32	3-3/16	AN736	AN736A
3-31/32	3-5/16	AN737	AN737A
4-3/32	3-7/16	AN740	AN740A
4-7/32	3-9/16	–	AN741A
4-11/32	3-11/16	AN742	AN742A
4-15/32	3-13/16	AN743	AN743A
4-19/32	3-15/16	AN744	AN744A
4-23/32	4-1/16	–	AN745A
4-27/32	4-3/16	–	AN746A
4-31/32	4-5/16	AN747	AN747A
5-3/32	4-7/16	AN750	AN750A
5-7/32	4-9/16	–	AN751A
5-11/32	4-11/16	–	AN752A
5-19/32	4-15/16	–	AN754A
5-27/32	5-3/16	–	AN756A
6-3/32	5-7/16	AN760	–

AN8 Bolt Cadmium Plated Carbon Steel, 1/2" – 20 Thread			
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
1-11/32	9/16	AN812	AN812A
1-15/32	11/16	AN813	AN813A
1-19/32	13/16	AN814	AN814A
1-23/32	15/16	AN815	AN815A
1-27/32	1-1/16	AN816	AN816A
1-31/32	1-3/16	–	AN817A
2-3/32	1-5/16	AN820	AN820A
2-7/32	1-7/16	AN821	AN821A
2-11/32	1-9/16	AN822	AN822A
2-15/32	1-11/16	AN823	AN823A
2-19/32	1-13/16	–	AN824A
2-23/32	1-15/16	–	AN825A
2-27/32	2-1/16	–	AN826A
2-31/32	2-3/16	AN827	AN827A
3-3/32	2-5/16	AN830	AN830A
3-11/32	2-9/16	–	AN832A
3-15/32	2-11/16	–	AN833A
3-19/32	2-13/16	AN834	AN834A
3-23/32	2-15/16	–	AN835A
3-27/32	3-1/16	AN836	AN836A
4-3/32	3-5/16	–	AN840A
4-7/32	3-7/16	–	AN841A
4-11/32	3-9/16	AN842	AN842A
4-15/32	3-11/16	AN843	AN843A
4-19/32	3-13/16	–	AN844A
4-23/32	3-15/16	AN845	AN845A
4-27/32	4-1/16	AN846	AN846A
4-31/32	4-3/16	AN847	AN847A
5-3/32	4-5/16	–	AN850A
5-7/32	4-7/16	AN851	AN851A
5-11/32	4-9/16	AN852	AN852A



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AN3C Bolt			
Stainless Steel #10 – 32 Thread, 125,000 PSI Tensile Strength			
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
15/32	1/16	AN3C3	AN3C3A
17/32	1/8	AN3C4	AN3C4A
21/32	1/4	AN3C5	AN3C5A
25/32	3/8	AN3C6	AN3C6A
29/32	1/2	AN3C7	AN3C7A
11/32	5/8	AN3C10	AN3C10A
1-5/32	3/4	AN3C11	AN3C11A
1-9/32	7/8	AN3C12	AN3C12A
1-13/32	1	AN3C13	AN3C13A
1-17/32	1-1/8	AN3C14	AN3C14A
1-21/32	1-1/4	AN3C15	AN3C15A
1-25/32	1-3/8	AN3C16	AN3C16A



C in the part number is for corrosion resistant steel (stainless steel).

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AN4C Bolt							
Stainless Steel, 1/4" – 28 Thread							
Length (in)	Grip (in)	Drilled Shank	Undrilled Shank	Length (in)	Grip (in)	Drilled Shank	Undrilled Shank
15/32	1/16	AN4C3	AN4C3A	1-21/32	1-3/16	AN4C15	AN4C15A
17/32	1/16	AN4C4	AN4C4A	1-25/32	1-5/16	AN4C16	AN4C16A
21/32	3/16	AN4C5	AN4C5A	1-29/32	1-7/16	AN4C17	AN4C17A
25/32	5/16	AN4C6	AN4C6A	2-1/32	1-9/16	AN4C20	AN4C20A
29/32	7/16	AN4C7	AN4C7A	2-5/32	1-11/16	AN4C21	AN4C21A
1-1/32	9/16	AN4C10	AN4C10A	2-9/32	1-13/16	AN4C22	AN4C22A
1-5/32	11/16	AN4C11	AN4C11A	2-13/32	1-15/16	AN4C23	AN4C23A
1-9/32	13/16	AN4C12	AN4C12A	2-17/32	2-1/16	AN4C24	AN4C24A
1-13/32	15/16	AN4C13	AN4C13A	2-25/32	2-5/16	AN4C26	AN4C26A
1-17/32	1-1/16	AN4C14	AN4C14A				



MS24694S 100° Phillips Flat Head Structural Machine Screw Plated Alloy Steel, 125,000 PSI Tensile Strength, Supersedes AN509

Size	Length (in)	Grip (in)	AN509	Part No.	Size	Length (in)	Grip (in)	AN509	Part No.
#8 - 32	9/32	3/32	8R4	MS24694S1	#10 - 32	23/32	1/4	10R11	MS24694S53
#8 - 32	11/32	3/32	8R5	MS24694S2	#10 - 32	25/32	5/16	10R12	MS24694S54
#8 - 32	13/32	3/32	8R6	MS24694S3	#10 - 32	27/32	3/8	10R13	MS24694S55
#8 - 32	15/32	3/32	8R7	MS24694S4	#10 - 32	29/32	7/16	10R14	MS24694S56
#8 - 32	17/32	3/32	8R8	MS24694S5	#10 - 32	31/32	1/2	10R15	MS24694S57
#8 - 32	19/32	5/32	8R9	MS24694S6	#10 - 32	1-1/32	9/16	10R16	MS24694S58
#8 - 32	21/32	7/32	8R10	MS24694S7	#10 - 32	1-3/32	5/8	10R17	MS24694S59
#8 - 32	23/32	9/32	8R11	MS24694S8	#10 - 32	1-5/32	11/16	10R18	MS24694S60
#8 - 32	25/32	11/32	8R12	MS24694S9	#10 - 32	1-7/32	3/4	10R19	MS24694S61
#8 - 32	27/32	13/32	8R13	MS24694S10	#10 - 32	1-9/32	13/16	10R20	MS24694S62
#8 - 32	29/32	15/32	8R14	MS24694S11	#10 - 32	1-11/32	7/8	10R21	MS24694S63
#8 - 32	31/32	17/32	8R15	MS24694S12	#10 - 32	1-13/32	15/16	10R22	MS24694S64
#8 - 32	1-1/32	19/32	8R16	MS24694S13	#10 - 32	1-15/32	1	10R23	MS24694S65
#8 - 32	1-3/32	21/32	8R17	MS24694S14	#10 - 32	1-17/32	1-1/16	10R24	MS24694S66
#8 - 32	1-5/32	23/32	8R18	MS24694S15	#10 - 32	1-19/32	1-1/8	10R25	MS24694S67
#8 - 32	1-7/32	25/32	8R19	MS24694S16	1/4" - 28	17/32	9/64	416R8	MS24694S95
#8 - 32	1-9/32	27/32	8R20	MS24694S17	1/4" - 28	19/32	9/64	416R9	MS24694S96
#8 - 32	1-11/32	29/32	8R21	MS24694S18	1/4" - 28	21/32	9/64	416R10	MS24694S97
#8 - 32	1-13/32	31/32	8R22	MS24694S19	1/4" - 28	23/32	3/16	416R11	MS24694S98
#8 - 32	1-15/32	1-1/32	8R23	MS24694S20	1/4" - 28	25/32	1/4	416R12	MS24694S99
#10 - 32	9/32	7/64	10R4	MS24694S46	1/4" - 28	27/32	5/16	416R13	MS24694S100
#10 - 32	11/32	7/64	10R5	MS24694S47	1/4" - 28	29/32	3/8	416R14	MS24694S101
#10 - 32	13/32	7/64	10R6	MS24694S48	1/4" - 28	31/32	7/16	416R15	MS24694S102
#10 - 32	15/32	7/64	10R7	MS24694S49	1/4" - 28	1-1/32	1/2	416R16	MS24694S103
#10 - 32	17/32	7/64	10R8	MS24694S50	1/4" - 28	1-3/32	9/16	416R17	MS24694S104
#10 - 32	19/32	7/64	10R9	MS24694S51	1/4" - 28	1-5/32	5/8	416R18	MS24694S105
#10 - 32	21/32	3/16	10R10	MS24694S52	1/4" - 28	1-7/32	11/16	416R22	MS24694S106

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MS24694C 100° Phillips Flat Head Structural Machine Screw
Stainless Steel, 125,000 PSI Tensile Strength

Size	Length (in)	Grip (in)	Part No.	Size	Length (in)	Grip (in)	Part No.
#8 – 32	9/32	3/32	MS24694C1	#10 – 32	19/32	7/64	MS24694C51
#8 – 32	11/32	3/32	MS24694C2	#10 – 32	21/32	3/16	MS24694C52
#8 – 32	13/32	3/32	MS24694C3	#10 – 32	23/32	1/4	MS24694C53
#8 – 32	15/32	3/32	MS24694C4	#10 – 32	25/32	5/16	MS24694C54
#8 – 32	17/32	3/32	MS24694C5	#10 – 32	27/32	3/8	MS24694C55
#8 – 32	19/32	5/32	MS24694C6	#10 – 32	29/32	7/16	MS24694C56
#8 – 32	21/32	7/32	MS24694C7	#10 – 32	31/32	1/2	MS24694C57
#8 – 32	23/32	9/32	MS24694C8	#10 – 32	1-1/32	9/16	MS24694C58
#8 – 32	25/32	11/32	MS24694C9	#10 – 32	1-3/32	5/8	MS24694C59
#8 – 32	27/32	13/32	MS24694C10	#10 – 32	1-5/32	11/16	MS24694C60
#8 – 32	29/32	15/32	MS24694C11	#10 – 32	1-7/32	3/4	MS24694C61
#8 – 32	31/32	17/32	MS24694C12	#10 – 32	1-9/32	13/16	MS24694C62
#8 – 32	1-1/32	19/32	MS24694C13	#10 – 32	1-11/32	7/8	MS24694C63
#8 – 32	1-3/32	21/32	MS24694C14	#10 – 32	1-13/32	15/16	MS24694C64
#8 – 32	1-5/32	23/32	MS24694C15	#10 – 32	1-15/32	1	MS24694C65
#10 – 32	9/32	7/64	MS24694C46	#10 – 32	1-17/32	1-1/16	MS24694C66
#10 – 32	11/32	7/64	MS24694C47	1/4" – 28	17/32	9/64	MS24694C95
#10 – 32	13/32	7/64	MS24694C48	1/4" – 28	21/32	9/64	MS24694C97
#10 – 32	15/32	7/64	MS24694C49	1/4" – 28	25/32	1/4	MS24694C99
#10 – 32	17/32	7/64	MS24694C50	1/4" – 28	31/32	7/16	MS24694C102

NOTE: C in the part number is for corrosion resistant steel (stainless steel).

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AN526C Truss Head Non-Structural Machine Screw
Stainless Steel

Size	Length (in)	Part No.	Size	Length (in)	Part No.	Size	Length (in)	Part No.
#4 – 40	3/8	AN526C440R6	#8 – 32	5/16	AN526C832R5	#10 – 32	7/16	AN526C1032R7
#4 – 40	1/2	AN526C440R8	#8 – 32	3/8	AN526C832R6	#10 – 32	1/2	AN526C1032R8
#6 – 32	1/4	AN526C632R4	#8 – 32	7/16	AN526C832R7	#10 – 32	9/16	AN526C1032R9
#6 – 32	3/8	AN526C632R6	#8 – 32	1/2	AN526C832R8	#10 – 32	5/8	AN526C1032R10
#6 – 32	7/16	AN526C632R7	#8 – 32	5/8	AN526C832R10	#10 – 32	3/4	AN526C1032R12
#6 – 32	1/2	AN526C632R8	#8 – 32	3/4	AN526C832R12	#10 – 32	7/8	AN526C1032R14
#6 – 32	5/8	AN526C632R10	#8 – 32	1	AN526C832R16	#10 – 32	1	AN526C1032R16
#6 – 32	3/4	AN526C632R12	#8 – 32	1-1/4	AN526C832R20	#10 – 32	1-1/4	AN526C1032R20
#6 – 32	1	AN526C632R16	#10 – 32	1/4	AN526C1032R4			
#8 – 32	1/4	AN526C832R4	#10 – 32	3/8	AN526C1032R6			

NOTE: C in the part number is for corrosion resistant steel (stainless steel).



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MS2493C 100° Flat Head Non-Structural Machine Screw Stainless Steel

Size	Length (in)	Part No.	Size	Length (in)	Part No.	Size	Length (in)	Part No.	Size	Length (in)	Part No.
#4 - 40	1/4	MS24693C2	#6 - 32	7/16	MS24693C27	#8 - 32	5/8	MS24693C51	#10 - 32	3/4	MS24693C274
#4 - 40	5/16	MS24693C3	#6 - 32	1/2	MS24693C28	#8 - 32	3/4	MS24693C52	#10 - 32	7/8	MS24693C275
#4 - 40	3/8	MS24693C4	#6 - 32	5/8	MS24693C29	#8 - 32	7/8	MS24693C53	#10 - 32	1	MS24693C276
#4 - 40	7/16	MS24693C5	#6 - 32	3/4	MS24693C30	#8 - 32	1	MS24693C54	#10 - 32	1-1/8	MS24693C277
#4 - 40	1/2	MS24693C6	#6 - 32	7/8	MS24693C31	#8 - 32	1-1/8	MS24693C55	#10 - 32	1-1/4	MS24693C278
#4 - 40	5/8	MS24693C7	#6 - 32	1	MS24693C32	#8 - 32	1-1/4	MS24693C56	#10 - 32	1-1/2	MS24693C280
#4 - 40	3/4	MS24693C8	#6 - 32	1-1/8	MS24693C33	#8 - 32	1-1/2	MS24693C58	#10 - 32	1-5/8	MS24693C281
#4 - 40	7/8	MS24693C9	#6 - 32	1-1/4	MS24693C34	#10 - 32	1/4	MS24693C268	#10 - 32	1-3/4	MS24693C282
#4 - 40	1	MS24693C10	#8 - 32	1/4	MS24693C46	#10 - 32	5/16	MS24693C269	#10 - 32	2	MS24693C284
#6 - 32	3/16	MS24693C23	#8 - 32	5/16	MS24693C47	#10 - 32	3/8	MS24693C270	#10 - 32	2-1/2	MS24693C286
#6 - 32	1/4	MS24693C24	#8 - 32	3/8	MS24693C48	#10 - 32	7/16	MS24693C271			
#6 - 32	5/16	MS24693C25	#8 - 32	7/16	MS24693C49	#10 - 32	1/2	MS24693C272			
#6 - 32	3/8	MS24693C26	#8 - 32	1/2	MS24693C50	#10 - 32	5/8	MS24693C273			

NOTE: C in the part number is for corrosion resistant steel (stainless steel).

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MS27039 Cross-Recessed Structural Machine Screw Plated Alloy Steel, 125,000 PSI Tensile Strength Supersedes NAS220, 221, 222							
Size	Length (in)	Grip (in)	Part No.	Size	Length (in)	Grip (in)	Part No.
#8 – 32	0.281	–	MS270390804	#10 – 32	0.406	–	MS27039106
#8 – 32	0.344	–	MS270390805	#10 – 32	0.469	–	MS27039107
#8 – 32	0.406	–	MS270390806	#10 – 32	0.531	0.062	MS27039108
#8 – 32	0.469	–	MS270390807	#10 – 32	0.594	0.125	MS27039109
#8 – 32	0.531	0.094	MS270390808	#10 – 32	0.656	0.188	MS27039110
#8 – 32	0.594	0.156	MS270390809	#10 – 32	0.719	0.250	MS27039111
#8 – 32	0.656	0.219	MS270390810	#10 – 32	0.781	0.312	MS27039112
#8 – 32	0.719	0.281	MS270390811	#10 – 32	0.844	0.375	MS27039113
#8 – 32	0.781	0.344	MS270390812	#10 – 32	0.906	0.438	MS27039114
#8 – 32	0.844	0.406	MS270390813	#10 – 32	0.969	0.500	MS27039115
#8 – 32	0.906	0.469	MS270390814	#10 – 32	1.031	0.563	MS27039116
#8 – 32	0.969	0.531	MS270390815	#10 – 32	1.094	0.625	MS27039117
#8 – 32	1.031	0.594	MS270390816	#10 – 32	1.156	0.688	MS27039118
#8 – 32	1.094	.656	MS270390817	#10 – 32	1.219	0.750	MS27039119
#8 – 32	1.156	.719	MS270390818	#10 – 32	1.281	0.813	MS27039120
#8 – 32	1.219	.781	MS270390819	#10 – 32	1.344	0.875	MS27039121
#8 – 32	1.281	.844	MS270390820	#10 – 32	1.406	0.938	MS27039122
#8 – 32	1.406	.969	MS270390822	#10 – 32	1.469	1.000	MS27039123
#8 – 32	1.469	1.031	MS270390823	#10 – 32	1.531	1.062	MS27039124
#10 – 32	0.281	–	MS27039104	#10 – 32	1.594	1.125	MS27039125
#10 – 32	0.344	–	MS27039105				

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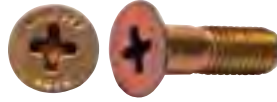


AN525 Cross-Recessed Washer Head Structural Machine Screw Plated Alloy Steel, 125,000 PSI Tensile Strength							
Size	Length (in)	Grip (in)	Part No.	Size	Length (in)	Grip (in)	Part No.
#8 – 32	3/8	1/32	AN525832R6	#10 – 32	1/2	1/8	AN52510R8
#8 – 32	1/2	1/8	AN525832R8	#10 – 32	9/16	5/32	AN52510R9
#8 – 32	5/8	7/32	AN525832R10	#10 – 32	5/8	7/32	AN52510R10
#8 – 32	11/16	9/32	AN525832R11	#10 – 32	11/16	9/32	AN52510R11
#8 – 32	3/4	11/32	AN525832R12	#10 – 32	3/4	11/32	AN52510R12
#8 – 32	1	19/32	AN525832R16	#10 – 32	1	19/32	AN52510R16
#8 – 32	1-1/4	27/32	AN525832R20	#10 – 32	1-1/4	27/32	AN52510R20
#10 – 32	3/8	1/32	AN52510R6				



Aviation

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NAS517 100° Countersunk Head Non-Structural Machine Screw Plated Alloy Steel

Size (in)	Length (in)	Grip (in)	Part No.
.19032	.531	.125	NAS51732
.19032	.594	.188	NAS51733
.19032	.656	.250	NAS51734



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MS24693S 100° Flat Head Non-Structural Machine Screw Plated Alloy Steel

Size	Length (in)	AN507	Part No.	Size	Length (in)	AN507	Part No.
#4 - 40	1/4	440R4	MS24693S2	#8 - 32	7/16	832R7	MS24693S49
#4 - 40	5/16	440R5	MS24693S3	#8 - 32	1/2	832R8	MS24693S50
#4 - 40	3/8	440R6	MS24693S4	#8 - 32	5/8	832R10	MS24693S51
#4 - 40	7/16	440R7	MS24693S5	#8 - 32	3/4	832R12	MS24693S52
#4 - 40	1/2	440R8	MS24693S6	#8 - 32	7/8	832R14	MS24693S53
#4 - 40	5/8	440R10	MS24693S7	#8 - 32	1	832R16	MS24693S54
#4 - 40	3/4	440R12	MS24693S8	#8 - 32	1-1/8	832R18	MS24693S55
#4 - 40	7/8	440R14	MS24693S9	#8 - 32	1-1/4	832R20	MS24693S56
#4 - 40	1	440R16	MS24693S10	#8 - 32	1-1/2	832R24	MS24693S58
#6 - 32	3/16	632R3	MS24693S23	#10 - 32	1/4	1032R5	MS24693S268
#6 - 32	1/4	632R4	MS24693S24	#10 - 32	5/16	1032R6	MS24693S269
#6 - 32	5/16	632R5	MS24693S25	#10 - 32	3/8	1032R7	MS24693S270
#6 - 32	3/8	632R6	MS24693S26	#10 - 32	7/16	1032R8	MS24693S271
#6 - 32	7/16	632R7	MS24693S27	#10 - 32	1/2	1032R9	MS24693S272
#6 - 32	1/2	632R8	MS24693S28	#10 - 32	5/8	1032R10	MS24693S273
#6 - 32	5/8	632R10	MS24693S29	#10 - 32	3/4	1032R12	MS24693S274
#6 - 32	3/4	632R12	MS24693S30	#10 - 32	7/8	1032R14	MS24693S275
#6 - 32	7/8	632R14	MS24693S31	#10 - 32	1	1032R16	MS24693S276
#6 - 32	1	632R16	MS24693S32	#10 - 32	1-1/8	1032R18	MS24693S277
#6 - 32	1-1/8	632R18	MS24693S33	#10 - 32	1-1/4	1032R20	MS24693S278
#6 - 32	1-1/4	632R20	MS24693S34	#10 - 32	1-1/2	1032R24	MS24693S280
#6 - 32	1-1/2	632R24	MS24693S36	#10 - 32	1-5/8	1032R36	MS24693S281
#8 - 32	1/4	832R4	MS24693S46	#10 - 32	1-3/4	1032R38	MS24693S282
#8 - 32	5/16	832R5	MS24693S47	#10 - 32	2	1032R32	MS24693S284
#8 - 32	3/8	832R6	MS24693S48	#10 - 32	2-1/2	1032R40	MS24693S286

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AN526 Truss Head Non-Structural Machine Screw Plated Alloy Steel								
Size	Length (in)	Part No.	Size	Length (in)	Part No.	Size	Length (in)	Part No.
#4 – 40	1/4	AN526440R4	#8–32	1/4	AN526832R4	#10 – 32	1/4	AN5261032R4
#4 – 40	3/8	AN526440R6	#8–32	5/16	AN526832R5	#10 – 32	5/16	AN5261032R5
#4 – 40	1/2	AN526440R8	#8–32	3/8	AN526832R6	#10 – 32	3/8	AN5261032R6
#6 – 32	1/4	AN526632R4	#8–32	7/16	AN526832R7	#10 – 32	7/16	AN5261032R7
#6 – 32	5/16	AN526632R5	#8–32	1/2	AN526832R8	#10 – 32	1/2	AN5261032R8
#6 – 32	3/8	AN526632R6	#8–32	9/16	AN526832R9	#10 – 32	9/16	AN5261032R9
#6 – 32	7/16	AN526632R7	#8–32	5/8	AN526832R10	#10 – 32	5/8	AN5261032R10
#6 – 32	1/2	AN526632R8	#8–32	3/4	AN526832R12	#10 – 32	3/4	AN5261032R12
#6 – 32	9/16	AN526632R9	#8–32	7/8	AN526832R14	#10 – 32	7/8	AN5261032R14
#6 – 32	5/8	AN526632R10	#8–32	1	AN526832R16	#10 – 32	1	AN5261032R16
#6 – 32	3/4	AN526632R12	#8–32	1-1/8	AN526832R18	#10 – 32	1-1/4	AN5261032R20
#6 – 32	7/8	AN526632R14	#8–32	1-1/4	AN526832R20	#10 – 32	1-3/8	AN5261032R22
#6 – 32	1	AN526632R16	#8–32	1-1/2	AN526832R24	#10 – 32	1-1/2	AN5261032R24

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MS535206 Phillips Pan Head Non-Structural Machine Screw Plated Alloy Steel							
Size	Length (in)	AN515	Part No.	Size	Length (in)	AN515	Part No.
#4 – 40	1/4	4R4	MS35206213	#6 – 32	3/4	6R12	MS35206232
#4 – 40	3/8	4R6	MS35206215	#6 – 32	1	6R16	MS35206234
#4 – 40	1/2	4R8	MS35206217	#6 – 32	1-1/4	6R20	MS35206235
#4 – 40	3/4	4R12	MS35206219	#8 – 32	1/4	8R4	MS35206241
#4 – 40	1	4R16	MS35206221	#8 – 32	3/8	8R6	MS35206243
#4 – 40	1-1/4	4R20	MS35206222	#8 – 32	1/2	8R8	MS35206245
#6 – 32	1/4	6R4	MS35206226	#8 – 32	3/4	8R12	MS35206247
#6 – 32	3/8	6R6	MS35206228	#8 – 32	1	8R16	MS35206249
#6 – 32	1/2	6R8	MS35206230	#8 – 32	1-1/4	8R20	MS35206250



Aviation



MS352072 Cross-Recessed Pan Head Non-Structural Machine Screw Plated Alloy Steel

Size	Length (in)	ANS20	Part No.	Size	Length (in)	ANS20	Part No.
#10 – 32	1/4	10R4	MS35207259	#10 – 32	1-3/4	10R28	MS35207270
#10 – 32	5/16	10R5	MS35207260	#10 – 32	2	10R32	MS35207271
#10 – 32	3/8	10R6	MS35207261	#10 – 32	2-1/4	10R36	MS35207272
#10 – 32	7/16	10R7	MS35207262	#10 – 32	2-1/2	10R40	MS35207273
#10 – 32	1/2	10R8	MS35207263	1/4" – 28	3/8	416R6	MS35207277
#10 – 32	5/8	10R10	MS35207264	1/4" – 28	7/16	416R7	MS35207278
#10 – 32	3/4	10R12	MS35207265	1/4" – 28	1/2	416R8	MS35207279
#10 – 32	7/8	10R14	MS35207266	1/4" – 28	5/8	416R10	MS35207280
#10 – 32	1	10R16	MS35207267	1/4" – 28	3/4	416R12	MS35207281
#10 – 32	1-1/4	10R20	MS35207268	1/4" – 28	7/8	416R14	MS35207282
#10 – 32	1-1/2	10R24	MS35207269				



MS51861 Phillips Pan Head Self-Tapping Screw Plated Alloy Steel (Type AB Point)

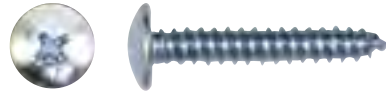
Size	Length	Part No.	Size	Length	Part No.	Size	Length	Part No.
#4	1/4"	MS5186112	#6	3/8"	MS5186124	#8	3/4"	MS5186137
#4	3/8"	MS5186114	#6	1/2"	MS5186125	#10	3/8"	MS5186144
#4	1/2"	MS5186115	#6	3/4"	MS5186127	#10	1/2"	MS5186145
#4	3/4"	MS5186117	#8	3/8"	MS5186134	#10	3/4"	MS5186147
#6	1/4"	MS5186122	#8	1/2"	MS5186135	#10	1"	MS5186148

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**Phillips Truss Head A Point Sheet Metal Screws
Zinc Plated**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	460B14	-	-	-
3/8"	460B38	460C38	460D38	-
1/2"	460B12	460C12	460D12	460E12
5/8"	460B58	460C58	460D58	460E58
3/4"	460B34	460C34	460D34	460E34
1"	-	460C1	460D1	460E1

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**Phillips Truss Head A Point Sheet Metal Screws
Stainless Steel**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	461B14	-	-	-
3/8"	461B38	461C38	461D38	-
1/2"	461B12	461C12	461D12	461E12
5/8"	461B58	461C58	461D58	461E58
3/4"	461B34	461C34	461D34	461E34
1"	-	461C1	461D1	461E1

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**Phillips 82° Flat Head A Point Sheet Metal Screws
Zinc Plated**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	457B14	-	-	-
3/8"	457B38	457C38	457D38	-
1/2"	457B12	457C12	457D12	457E12
5/8"	457B58	457C58	457D58	457E58
3/4"	457B34	457C34	457D34	457E34
1"	-	457C1	457D1	457E1

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**Phillips 82° Flat Head A Point Sheet Metal Screws
Stainless Steel**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	463B14	-	-	-
3/8"	463B38	463C38	463D38	-
1/2"	463B12	463C12	463D12	463E12
5/8"	463B58	463C58	463D58	463E58
3/4"	463B34	463C34	463D34	463E34
1"	-	463C1	463D1	463E1

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**Phillips Pan Head A Point Sheet Metal Screws
Zinc Plated**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	464B14	-	-	-
3/8"	464B38	464C38	464D38	-
1/2"	464B12	464C12	464D12	464E12
5/8"	464B58	464C58	464D58	464E58
3/4"	464B34	464C34	464D34	464E34
1"	-	464C1	464D1	464E1

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**Phillips Pan Head A Point Sheet Metal Screws
Stainless Steel**

Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	465B14	-	-	-
3/8"	465B38	465C38	465D38	-
1/2"	465B12	465C12	465D12	465E12
5/8"	465B58	465C58	465D58	465E58
3/4"	465B34	465C34	465D34	465E34
1"	-	465C1	465D1	465E1

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Phillips Oval Head A Point Sheet Metal Screws Zinc Plated				
Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	-	-	-	-
3/8"	466B38	466C38	-	-
1/2"	466B12	466C12	466D12	466E12
5/8"	466B58	466C58	466D58	466E58
3/4"	466B34	466C34	466D34	466E34
1"	-	466C1	466D1	466E1



Phillips Oval Head A Point Sheet Metal Screws Stainless Steel				
Diameter Length	Part No.			
	#4	#6	#8	#10
1/4"	-	-	-	-
3/8"	467B38	467C38	-	-
1/2"	467B12	467C12	467D12	467E12
5/8"	467B58	467C58	467D58	467E58
3/4"	467B34	467C34	467D34	467E34
1"	-	467C1	467D1	467E1



Phillips Pan Head B Point Sheet Metal Screws Zinc Plated			
Diameter Length	Part No.		
	#6	#8	#10
3/8"	468C38	-	-
1/2"	468C12	468D12	468E12
5/8"	-	468D58	468E58
3/4"	468C34	468D34	468E34
1"	-	-	468E1



Phillips Pan Head B Point Sheet Metal Screws Stainless Steel			
Diameter Length	Part No.		
	#6	#8	#10
3/8"	469C38	-	-
1/2"	469C12	469D12	469E12
5/8"	469C58	469D58	469E58
3/4"	469C34	469D34	469E34
1"	-	469D1	469E1



Phillips 82° Flat Head B Point Sheet Metal Screws Zinc Plated			
Diameter Length	Part No.		
	#6	#8	#10
1/2"	458C12	458D12	458E12
3/4"	458C34	458D34	458E34



Phillips 82° Flat Head B Point Sheet Metal Screws Stainless Steel			
Diameter Length	Part No.		
	#6	#8	#10
1/2"	459C12	459D12	459E12
3/4"	459C34	459D34	459E34



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Standard Washer Cadmium Plated Carbon Steel			
Size	NAS1149F	AN960	Hi-Line Part No.
#3	N332P	3	AN9603
#4	N432P	4	AN9604
#5	N542P	5	AN9605
#6	N632P	6	AN9606
#8	N832P	8	AN9608
#10	0363P	10	AN96010
1/4"	0463P	416	AN960416
5/16"	0563P	516	AN960516
3/8"	0663P	616	AN960616
7/16"	0763P	716	AN960716
1/2"	0863P	816	AN960816
9/16"	0963P	916	AN960916
5/8"	1063P	1016	AN9601016
3/4"	1290P	1216	AN9601216
7/8"	1490P	1416	AN9601416

MADE IN USA



Light Washer Cadmium Plated Carbon Steel			
Size	NAS1149F	AN960	Hi-Line Part No.
#3	N316P	3L	AN9603L
#4	N416P	4L	AN9604L
#6	N616P	6L	AN9606L
#8	N816P	8L	AN9608L
#10	0332P	10L	AN96010L
1/4"	0432P	416L	AN960416L
5/16"	0532P	516L	AN960516L
3/8"	0632P	616L	AN960616L
7/16"	0732P	716L	AN960716L
1/2"	0832P	816L	AN960816L
9/16"	0932P	916L	AN960916L
5/8"	1032P	1016L	AN9601016L
3/4"	1232P	1216L	AN9601216L
7/8"	1432P	1416L	AN9601416L

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Standard Washer Stainless Steel			
Size	NAS1149C	AN960C	Hi-Line Part No.
#2	N232R	2	AN960C2
#3	N332R	3	AN960C3
#4	N432R	4	AN960C4
#5	N542R	5	AN960C5
#6	N632R	6	AN960C6
#8	N832R	8	AN960C8
#10	0363R	10	AN960C10
1/4"	0463R	416	AN960C416
5/16"	0563R	516	AN960C516
3/8"	0732R	616	AN960C616
7/16"	0763R	716	AN960C716
1/2"	0863R	816	AN960C816
9/16"	0963R	916	AN960C916
5/8"	1063R	1016	AN960C1016
3/4"	1290R	1216	AN960C1216
7/8"	1490R	1416	AN960C1416

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Light Washer Stainless Steel			
Size	NAS1149C	AN960C	Hi-Line Part No.
#3	N316R	3L	AN960C3L
#4	N416R	4L	AN960C4L
#6	N616R	6L	AN960C6L
#8	N816R	8L	AN960C8L
#10	0332R	10L	AN960C10L
1/4"	0432R	416L	AN960C416L
5/16"	0532R	516L	AN960C516L
3/8"	0632R	616L	AN960C616L
7/16"	0763R	716L	AN960C716L
1/2"	0832R	816L	AN960C816L
9/16"	0932R	916L	AN960C916L
5/8"	1032R	1016L	AN960C1016L
3/4"	1232R	1216L	AN960C1216L
7/8"	1432R	1416L	AN960C1416L



MADE IN USA



Standard Washer Natural Finish Aluminum			
Size	NAS1149D	AN960D	Hi-Line Part No.
#3	N332H	3	AN960D3
#4	N432H	4	AN960D4
#6	N632H	6	AN960D6
#8	N832H	8	AN960D8
#10	O363H	10	AN960D10
1/4"	O463H	416	AN960D416
5/16"	O563H	516	AN960D516
3/8"	O663H	616	AN960D616
7/16"	O763H	716	AN960D716
1/2"	O863H	816	AN960D816
9/16"	O963H	916	AN960D916

MADE IN USA



Light Washer Natural Finish Aluminum			
Size	NAS1149D	AN960D	Hi-Line Part No.
#3	N316H	3L	AN960D3L
#4	N416H	4L	AN960D4L
#6	N616H	6L	AN960D6L
#8	N816H	8L	AN960D8L
#10	O332H	10L	AN960D10L
1/4"	O416H	416L	AN960D416L
5/16"	O516H	516L	AN960D516L
3/8"	O616H	616L	AN960D616L
7/16"	O716H	716L	AN960D716L
1/2"	O816H	816L	AN960D816L
9/16"	O916H	916L	AN960D916L

MADE IN USA



Standard Washer Plated Finish Aluminum			
Size	NAS1149D	AN960JD	Hi-Line Part No.
#3	N332J	3	AN960JD3
#4	N432J	4	AN960JD4
#6	N632J	6	AN960JD6
#8	N832J	8	AN960JD8
#10	O363J	10	AN960JD10
1/4"	O463J	416	AN960JD416
5/16"	O563J	516	AN960JD516
3/8"	O663J	616	AN960JD616
7/16"	O763J	716	AN960JD716
1/2"	O863J	816	AN960JD816
9/16"	O963J	916	AN960JD916

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Light Washer Plated Finish Aluminum			
Size	NAS1149D	AN960JD	Hi-Line Part No.
#3	N316J	3L	AN960JD3L
#4	N416J	4L	AN960JD4L
#6	N616J	6L	AN960JD6L
#8	N816J	8L	AN960JD8L
#10	O332J	10L	AN960JD10L
1/4"	O416J	416L	AN960JD416L
5/16"	O516J	516L	AN960JD516L
3/8"	O616J	616L	AN960JD616L
7/16"	O716L	716L	AN960JD716L
1/2"	O816J	816L	AN960JD816L
9/16"	O916J	916L	AN960JD916L



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Wide Area Washers AN970_ (fender washers)	
Bolt Size	Steel
	Part No.
#10	AN9703
1/4"	AN9704
5/16"	AN9705
3/8"	AN9706
1/2"	AN9708
5/8"	AN97010

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Wide Area Washers AN970C_ Stainless Steel (fender washers)	
Bolt Size	Stainless
	Part No.
#10	AN970C3S
1/4"	AN970C4S
5/16"	AN970C5S
3/8"	AN970C6S

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Lock Washer Stainless Steel, Internal Tooth		
To Fit Dia.	AN936	Part No.
#4	A4C	MS3533370
#6	A6C	MS3533371
#8	A8C	MS3533372
#10	A10C	MS3533373



One pound dispenser containers.

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Safety Lock Wire Stainless Steel		
Sizes	Part No.	Mil-Spec
.020	TASW20	MS20995-C20
.025	TASW25	MS20995-C25
.032	TASW32	MS20995-C32
.041	TASW41	MS20995-C41
.051	TASW51	MS20995-C51

Breakaway Wire			
Brass		Copper	
Sizes	Part No.	Sizes	Part No.
.010	BB134010	.0126	CB30126
.016	BB134016	.016	CB3016
.020	BB134020	.0201	CB30201
.032	BB134032	.022	CB3022
.041	BB134041	.032	CB3032

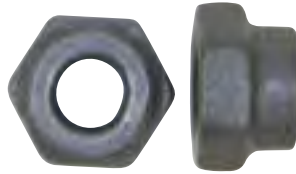
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Self-Locking Nut All Metal, 450° F Stainless Steel Regular Height	
Size	Part No.
#4 – 40	MS21045C04
#6 – 32	MS21045C06
#8 – 32	MS21045C08
#10 – 32	MS21045C3
1/4" – 28	MS21045C4
5/16" – 24	MS21045C5
3/8" – 24	MS21045C6
7/16" – 20	MS21045C7

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Self-Locking Nut Stainless Steel, Reduced Height (Reduced Hex, Silver Plated, 800°F)	
Size	Part No.
#4 – 40	MS2104304
#6 – 32	MS2104306
#8 – 32	MS2104308
#10 – 32	MS210433
1/4" – 28	MS210434
5/16" – 24	MS210435
3/8" – 24	MS210436

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Self-Locking Nut Stainless Steel Reg. Height Nylon Insert 250°F	
Size	Part No.
#4 – 40	MS21044C04
#6 – 32	MS21044C06
#8 – 32	MS21044C08
#10 – 32	MS21044C3
1/4" – 28	MS21044C4
5/16" – 24	MS21044C5
3/8" – 24	MS21044C6
7/16" – 20	MS21044C7
1/2" – 20	MS21044C8

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Plain Nut Stainless Steel (Replaces AN340)	
Size	Part No.
#4 – 40	MS35649244
#6 – 32	MS35649264
#8 – 32	MS35649284

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Tinnerman Washer Cadmium Plated Carbon Steel		
To Fit Dia.	Thickness (in)	Part No.
#6	.012	A323601224A
#8	.017	A313501724A
#10	.020	A323502024A

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Tinnerman Nut			
Size	Length (in)	Width (in)	Part No.
#6	0.61	0.44	A17846Z1D
#6	0.84	0.44	A17856Z1D
#8	0.53	0.5	A17868Z1D
#8	0.5	0.5	A12748Z1D
#8	0.61	0.44	A17898Z1D
#8	0.73	0.5	A13488Z1D
#8	0.84	0.44	A17878Z1D
#8	0.84	0.44	A17888Z1D
#10	0.62	0.44	A175810Z1D
#10	0.75	0.5	A135010Z1D
#10	0.84	0.44	A178710Z1D

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Plain Hex Nut Fine Thread, Stainless Steel	
Size	Part No.
#10 – 32	MS35650304

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EC1075 Tinnerman Washer Stainless Steel		
To Fit Dia.	Thickness (in)	Part No.
#6	.012	EC107501206SS
#8	.017	EC108001708SS
#10	.020	EC108502010SS



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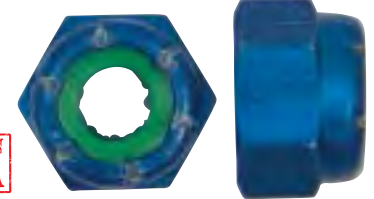
Self-Locking Nut Cadmium Plated Carbon Steel Reduced Height (Without dry film lube, All metal 450°F)	
Size	Part No.
#2 – 56	MS2104202
#4 – 40	MS2104204
#6 – 32	MS2104206
#8 – 32	MS2104208
#10 – 32	MS210423
1/4" – 28	MS210424
5/16" – 24	MS210425
3/8" – 24	MS210426

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Self-Locking Nut Cadmium Plated Carbon Steel Reduced Height (With dry film lube, All metal 450°F)	
Size	Part No.
#2 – 56	MS21042L02
#4 – 40	MS21042L04
#6 – 32	MS21042L06
#8 – 32	MS21042L08
#10 – 32	MS21042L3
1/4" – 28	MS21042L4
5/16" – 24	MS21042L5
3/8" – 24	MS21042L6

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Self-Locking Nut Aluminum Reg. Height, Nylon Insert 250°F	
Size	Part No.
#4 – 40	MS21044D04
#6 – 32	MS21044D06
#8 – 32	MS21044D08
#10 – 32	MS21044D3
1/4" – 28	MS21044D4
5/16" – 24	MS21044D5
3/8" – 24	MS21044D6
1/2" – 20	MS21044D8

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Self-Locking Nut Cadmium Plated Carbon Steel (Regular height nylon insert 250°F)	
Size	Part No.
#4 – 40	MS21044N04
#6 – 32	MS21044N06
#8 – 32	MS21044N08
#10 – 32	MS21044N3
1/4" – 28	MS21044N4
5/16" – 24	MS21044N5
3/8" – 24	MS21044N6
7/16" – 20	MS21044N7
1/2" – 20	MS21044N8
9/16" – 18	MS21044N9
5/8" – 18	MS21044N10

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Self-Locking Nut – 450°F Cadmium Plated Carbon Steel (Regular height without dry film lube)	
Size	Part No.
#4 – 40	MS2104504
#6 – 32	MS2104506
#8 – 32	MS2104508
#10 – 32	MS210453
1/4" – 28	MS210454
5/16" – 24	MS210455
3/8" – 24	MS210456
7/16" – 20	MS210457
1/2" – 20	MS210458
9/16" – 18	MS210459
5/8" – 18	MS2104510



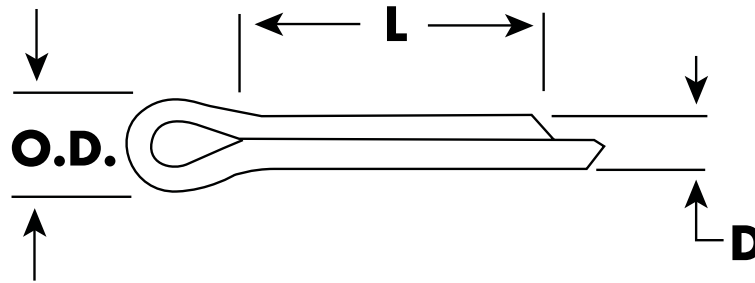
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Cotter Pins Cadmium Plated Carbon Steel (AN380)



Cotter Pins Stainless Steel (AN381)



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Cotter Pins					
Dia. (in)	Length (in)	Steel		Stainless	
		Part No.	AN380	Part No.	AN381
1/32	1/4	-	-	MS2466518	1-4
	1/2	MS246655	1-2	MS2466522	1-8
	3/4	MS246657	1-3	MS2466524	1-12
	1	MS246659	1-4	MS2466526	1-16
	1-1/4	MS2466510	1-5	MS2466527	1-20
	1-1/2	-	-	MS2466528	1-24
3/64	1/4	MS2466565	n/a	MS2466582	n/a
	1/2	MS2466569	n/a	MS2466586	15-8
	3/4	MS2466571	n/a	MS2466588	15-12
	1	MS2466573	n/a	MS2466590	15-16
1/16	1/4	-	-	MS246651011	2-5
	3/8	-	-	MS246651012	2-6
	7/16	-	-	MS246651013	2-7
	1/2	MS24665132	2-2	MS24665151	2-8
	3/4	MS24665134	2-3	MS24665153	2-12
	1	MS24665136	2-4	MS24665155	2-16
	1-1/4	MS24665138	2-5	MS24665157	2-20
	1-1/2	MS24665140	2-6	MS24665159	2-24
	1-3/4	MS24665142	2-7	MS24665161	2-28
	2	MS24665143	2-8	MS24665162	2-32
	2-1/2	MS24665144	2-10	MS24665163	2-40
	3	MS24665145	2-12	MS24665164	2-48
5/64	1/2	MS24665208	n/a	MS24665227	25-8
	3/4	MS24665210	n/a	MS24665229	25-12
	1	MS24665212	n/a	MS24665231	25-16
	1-1/4	MS24665214	n/a	MS24665233	25-20
	1-1/2	MS24665216	n/a	MS24665235	25-20
	1-3/4	MS24665218	n/a	MS24665237	25-24
	2	MS24665219	n/a	MS24665238	25-32

Cotter Pins					
Dia. (in)	Length (in)	Steel		Stainless	
		Part No.	AN380	Part No.	AN381
3/32	1/2	MS24665281	3-2	MS24665298	3-8
	3/4	MS24665283	3-3	MS24665300	3-12
	1	MS24665285	3-4	MS24665302	3-16
	1-1/4	MS24665287	3-5	MS24665304	3-20
	1-1/2	MS24665289	3-6	MS24665306	3-24
	1-3/4	MS24665291	3-7	MS24665308	3-28
	2	MS24665292	3-8	MS24665309	3-32
	2-1/4	MS24665293	3-9	MS24665310	3-36
	2-1/2	MS24665294	3-10	MS24665311	3-40
	3	MS24665295	3-12	MS24665312	3-48
1/8	1/2	MS24665349	4-2	MS24665366	4-8
	3/4	MS24665351	4-3	MS24665368	4-12
	1	MS24665353	4-4	MS24665370	4-16
	1-1/4	MS24665355	4-5	MS24665372	4-20
	1-1/2	MS24665357	4-6	MS24665374	4-24
	1-3/4	MS24665359	4-7	MS24665376	4-28
	2	MS24665360	4-8	MS24665377	4-32
	2-1/4	MS24665361	n/a	MS24665378	4-36
	2-1/2	MS24665362	4-10	MS24665379	4-40
	3	MS24665363	4-12	MS24665380	4-48
5/32	1-1/4	MS24665421	5-5	MS24665439	5-20
	1-1/2	MS24665423	5-6	MS24665441	5-24
	1-3/4	MS24665425	5-7	MS24665443	5-28
	2	MS24665426	5-8	MS24665444	5-32
	2-1/2	MS24665428	5-10	MS24665446	5-40
	2-3/4	MS24665429	5-11	MS24665447	5-44
	3	MS24665430	5-12	MS24665448	5-48
	3-1/2	MS24665431	5-14	MS24665449	5-56
4	MS24665432	5-16	MS24665450	5-64	



	Universal Heads	Countersunk Heads (100° Flush)
Nominal Diameters:	CR3213_	CR3212_
	NAS9301B-x-x	NAS9302B-x-x
Oversized Diameters:	CR3242_	CR3242_
	NAS9340B-x-x	NAS9305B-x-x

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MADE IN USA



CherryMAX Rivet Alloy Steel Stem, Aluminum Sleeve Universal Head					
Nominal			Oversize		
Dia. (in)	Grip Range (in)	Part No.	Dia. (in)	Grip Range (in)	Part No.
1/8	.025 – .062	CR321341	0.140	.025 – .062	CR324341
	.063 – .125	CR321342		.063 – .125	CR324342
	.126 – .187	CR321343		.126 – .187	CR324343
	.188 – .250	CR321344		.188 – .250	CR324344
	.251 – .312	CR321345		.251 – .312	CR324345
	.313 – .375	CR321346		.313 – .375	CR324346
	.376 – .437	CR321347		.376 – .437	CR324347
	.438 – .500	CR321348		.438 – .500	CR324348
	.501 – .562	CR321349		.501 – .562	CR324349
5/32	.031 – .062	CR321351	0.173	.031 – .062	CR324351
	.063 – .125	CR321352		.063 – .125	CR324352
	.126 – .187	CR321353		.126 – .187	CR324353
	.188 – .250	CR321354		.188 – .250	CR324354
	.251 – .312	CR321355		.251 – .312	CR324355
	.313 – .375	CR321356		.313 – .375	CR324356
	.376 – .437	CR321357		.376 – .437	CR324357
	.438 – .500	CR321358		.438 – .500	CR324358
	.501 – .562	CR321359		.501 – .562	CR324359
3/16	.037 – .062	CR321361	0.201	.037 – .062	CR324361
	.063 – .125	CR321362		.063 – .125	CR324362
	.126 – .187	CR321363		.126 – .187	CR324363
	.188 – .250	CR321364		.188 – .250	CR324364
	.251 – .312	CR321365		.251 – .312	CR324365
	.313 – .375	CR321366		.313 – .375	CR324366
	.376 – .437	CR321367		.376 – .437	CR324367
	.438 – .500	CR321368		.438 – .500	CR324368
	.501 – .562	CR321369		.501 – .562	CR324369

CherryMAX Rivet Alloy Steel Stem, Aluminum Sleeve 100° Flush Head					
Nominal			Oversize		
Dia. (in)	Grip Range (in)	Part No.	Dia. (in)	Grip Range (in)	Part No.
1/8	.063 – .125	CR321242	0.140	.063 – .125	CR324242
	.126 – .187	CR321243		.126 – .187	CR324243
	.188 – .250	CR321244		.188 – .250	CR324244
	.251 – .312	CR321245		.251 – .312	CR324245
	.313 – .375	CR321246		.313 – .375	CR324246
	.376 – .437	CR321247		.376 – .437	CR324247
	.438 – .500	CR321248		.438 – .500	CR324248
	.501 – .562	CR321249		.501 – .562	CR324249
	5/32	.063 – .125		CR321252	0.173
.126 – .187		CR321253	.126 – .187	CR324253	
.188 – .250		CR321254	.188 – .250	CR324254	
.251 – .312		CR321255	.251 – .312	CR324255	
.313 – .375		CR321256	.313 – .375	CR324256	
.376 – .437		CR321257	.376 – .437	CR324257	
.438 – .500		CR321258	.438 – .500	CR324258	
.501 – .562		CR321259	.501 – .562	CR324259	
3/16		.063 – .125	CR321262	0.201	
	.126 – .187	CR321263	.126 – .187		CR324263
	.188 – .250	CR321264	.188 – .250		CR324264
	.251 – .312	CR321265	.251 – .312		CR324265
	.313 – .375	CR321266	.313 – .375		CR324266
	.376 – .437	CR321267	.376 – .437		CR324267
	.438 – .500	CR321268	.438 – .500		CR324268
	.501 – .562	CR321269	.501 – .562		CR324269
	0.140	.025 – .062	CR324241		

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Aviation

MADE IN USA



Two Lug Low Height Miniature Nutplate (NAS697)

"K" After Dash # Indicates Counter Sunk Riveting Holes

Thread Size	A Max (in)	B Max (in)	J Max (in)	Height Max (in)	Part No.
#8 - 32	0.692	0.297	0.468	0.25	MS21069L08K
#10 - 32	0.724	0.328	0.5	0.25	MS21069L3
#10 - 32	0.724	0.328	0.5	0.25	MS21069L3K
1/4" - 28	0.786	0.414	0.562	0.281	MS21069L4
5/16" - 24	1.006	0.505	0.718	0.328	MS21069L5

MADE IN USA



One Lug Low Height Miniature Nutplate (NAS696)

Thread Size	A Max (in)	B Max (in)	C Max (in)	Height Max (in)	Part No.
#6 - 32	0.684	0.265	0.218	0.171	MS21071L06
#10 - 32	0.745	0.328	0.25	0.25	MS21071L3
1/4" - 28	0.822	0.414	0.281	0.281	MS21071L4

MADE IN USA



Corner Nutplate (NAS684)

"K" After Dash # Indicates Counter Sunk Riveting Holes

Thread Size	A Max (in)	C Max (in)	J Max (in)	Height Max (in)	Part No.
#6 - 32	0.637	0.344	0.486	0.171	MS21055L06
#8 - 32	0.637	0.344	0.486	0.25	MS21055L08
#8 - 32	0.637	0.344	0.486	0.25	MS21055L08K
#10 - 32	0.653	0.344	0.486	0.25	MS21055L3
#10 - 32	0.653	0.344	0.486	0.25	MS21055L3K
1/4" - 28	0.852	0.5	0.707	0.281	MS21055L4
5/16" - 24	0.914	0.5	0.707	0.328	MS21055L5

MADE IN USA



Two Lug Low Height Floating Nutplate (NAS686A)

"K" After Dash # Indicates Counter Sunk Riveting Holes

Thread Size	A Max (in)	B Max (in)	C Max (in)	J Max (in)	Height Max (in)	Part No.
#4 - 40	0.948	0.416	0.344	0.688	0.175	MS21059L04
#6 - 32	0.948	0.416	0.344	0.688	0.203	MS21059L06
#6 - 32	0.948	0.416	0.344	0.688	0.203	MS21059L06K
#8 - 32	0.948	0.416	0.344	0.688	0.25	MS21059L08
#8 - 32	0.948	0.416	0.344	0.688	0.25	MS21059L08K
#10 - 32	0.948	0.416	0.344	0.688	0.25	MS21059L3
#10 - 32	0.948	0.416	0.344	0.688	0.25	MS21059L3K
1/4" - 28	1.292	0.516	0.5	1	0.281	MS21059L4
5/16" - 24	1.292	0.609	0.5	1	0.328	MS21059L5
3/8" - 24	1.292	0.68	0.5	1	0.344	MS21059L6

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Solid Soft Rivet 1100-F Aluminum Alloy Universal Head (Sold by the pound)					
Dia. (in)	Length (in)	Part No.	Dia. (in)	Length (in)	Part No.
3/32	3/16	MS20470A33	1/8	9/16	MS20470A49
3/32	1/4	MS20470A34	1/8	5/8	MS20470A410
3/32	5/16	MS20470A35	1/8	3/4	MS20470A412
3/32	3/8	MS20470A36	1/8	1	MS20470A416
3/32	7/16	MS20470A37	1/8	1-1/4	MS20470A420
3/32	1/2	MS20470A38	5/32	3/16	MS20470A53
3/32	5/8	MS20470A310	5/32	1/4	MS20470A54
3/32	3/4	MS20470A312	5/32	5/16	MS20470A55
1/8	3/16	MS20470A43	5/32	3/8	MS20470A56
1/8	1/4	MS20470A44	5/32	7/16	MS20470A57
1/8	5/16	MS20470A45	5/32	1/2	MS20470A58
1/8	3/8	MS20470A46	5/32	9/16	MS20470A59
1/8	7/16	MS20470A47	5/32	5/8	MS20470A510
1/8	1/2	MS20470A48	5/32	3/4	MS20470A512



MADE IN USA

Solid Soft Rivet 1100-F Aluminum Alloy 100° Flush Head (Sold by the pound)					
Dia. (in)	Length (in)	Part No.	Dia. (in)	Length (in)	Part No.
3/32	3/16	MS20426A33	1/8	9/16	MS20426A49
3/32	1/4	MS20426A34	1/8	5/8	MS20426A410
3/32	5/16	MS20426A35	1/8	3/4	MS20426A412
3/32	3/8	MS20426A36	1/8	1	MS20426A416
3/32	7/16	MS20426A37	1/8	1-1/4	MS20426A420
3/32	1/2	MS20426A38	5/32	3/16	MS20426A53
3/32	5/8	MS20426A310	5/32	1/4	MS20426A54
3/32	3/4	MS20426A312	5/32	5/16	MS20426A55
1/8	3/16	MS20426A43	5/32	3/8	MS20426A56
1/8	1/4	MS20426A44	5/32	7/16	MS20426A57
1/8	5/16	MS20426A45	5/32	1/2	MS20426A58
1/8	3/8	MS20426A46	5/32	9/16	MS20426A59
1/8	7/16	MS20426A47	5/32	5/8	MS20426A510
1/8	1/2	MS20426A48	5/32	3/4	MS20426A512



MADE IN USA

Solid Rivet 2117-T4 Aluminum Alloy 100° Flush Shear Head (Sold by the pound)								
Dia. (in)	Length (in)	Part No.	Dia. (in)	Length (in)	Part No.	Dia. (in)	Length (in)	Part No.
3/32	0.125	NAS1097AD32	1/8	0.438	NAS1097AD47	5/32	0.625	NAS1097AD510
3/32	0.188	NAS1097AD33	1/8	0.500	NAS1097AD48	5/32	0.688	NAS1097AD511
3/32	0.312	NAS1097AD35	1/8	0.625	NAS1097AD410	5/32	0.750	NAS1097AD512
3/32	0.375	NAS1097AD36	1/8	0.688	NAS1097AD411	5/32	1.000	NAS1097AD516
3/32	0.438	NAS1097AD37	1/8	0.750	NAS1097AD412	3/16	0.188	NAS1097AD63
3/32	0.500	NAS1097AD38	1/8	1.000	NAS1097AD416	3/16	0.250	NAS1097AD64
3/32	0.563	NAS1097AD39	5/32	0.125	NAS1097AD52	3/16	0.312	NAS1097AD65
3/32	0.625	NAS1097AD310	5/32	0.188	NAS1097AD53	3/16	0.438	NAS1097AD67
3/32	0.750	NAS1097AD312	5/32	0.250	NAS1097AD54	3/16	0.500	NAS1097AD68
3/32	1.000	NAS1097AD316	5/32	0.312	NAS1097AD55	3/16	0.563	NAS1097AD69
1/8	0.188	NAS1097AD43	5/32	0.375	NAS1097AD56	3/16	0.625	NAS1097AD610
1/8	0.250	NAS1097AD44	5/32	0.438	NAS1097AD57	3/16	0.750	NAS1097AD612
1/8	0.312	NAS1097AD45	5/32	0.500	NAS1097AD58	3/16	1.0	NAS1097AD616
1/8	0.375	NAS1097AD46	5/32	0.563	NAS1097AD59			

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Fastener Assortments

Full Assortment
Product Quantity



Starter Assortment
Product Quantity



You can choose between a full quantity assortment or partial "starter" assortment quantity.

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Aviation Fastener Assortment

Full Assortment
Part No. AFK

780 Pieces (Comes in a PB32 parts bin)

Starter Assortment
Part No. AFKSA

220 Pieces (Includes a PB32 parts bin)

Back of Drawer

 #6 LIGHT WASHER S/S AN960C6L 25 / 10	 #6-32 x 3/4" S/S 100° FLAT HD MS24693C30 20 / 5	 #8 S/S LIGHT WASHER AN960C8L 25 / 10	 #8-32 x 3/8" CROSS REC. WASHER HD AN525832R6 20 / 5	 #8-32 x 1/2" CROSS REC. WASHER HD AN525832R8 20 / 5	 #10 S/S LIGHT WASHER AN960C10L 25 / 10	 #10-32 x 3/8" CROSS REC. WASHER HD AN52510R6 20 / 5	 #10-32 x 1/2" CROSS REC. WASHER HD AN52510R8 20 / 5
 #6 S/S STANDARD WASHER AN960C6 25 / 10	 #6-32 x 1/2" S/S 100° FLAT HD MS24693C28 20 / 5	 #6-32 x 3/4" S/S TRUSS HD S/S AN526C632R12 20 / 5	 #8 S/S STANDARD WASHER AN960C8 25 / 10	 #8-32 x 1" S/S 100° FLAT HD MS24693C54 20 / 5	 #8-32 x 3/4" S/S TRUSS HD AN526C832R12 20 / 5	 #10 S/S STANDARD WASHER AN960C10 25 / 10	 #10-32 x 3/4" S/S TRUSS HD AN526C1032R12 20 / 5
 #6-32 S/S ALL METAL LOCKNUT MS21045C06 25 / 10	 #6-32 x 3/8" S/S 100° FLAT HD MS24693C26 20 / 5	 #6-32 x 1/2" S/S TRUSS HD S/S AN526C632R8 20 / 5	 #8-32 S/S ALL METAL LOCKNUT MS21045C08 25 / 10	 #8-32 x 1/2" S/S 100° FLAT HD MS24693C50 20 / 5	 #8-32 x 1/2" S/S TRUSS HD AN526C832R8 20 / 5	 #10-32 S/S ALL METAL LOCKNUT MS21045C3 25 / 10	 #10-32 x 1/2" S/S TRUSS HD AN526C1032R8 20 / 5
 #6-32 S/S NYL INSERT LOCKNUT MS21044C06 25 / 10	 #6-32 x 1/4" S/S 100° FLAT HD MS24693C24 20 / 5	 #6-32 x 3/8" S/S TRUSS HD S/S AN526C632R6 20 / 5	 #8-32 S/S NYL INSERT LOCKNUT MS21044C08 25 / 10	 #8-32 x 3/8" S/S 100° FLAT HD MS24693C48 20 / 5	 #8-32 x 3/8" S/S TRUSS HD AN526C832R6 20 / 5	 #10-32 S/S NYL INSERT LOCKNUT MS21044C3 25 / 10	 #10-32 x 3/8" S/S TRUSS HD S/S AN526C1032R6 20 / 5

Front of Drawer



Aviation Cotter Pins

Full Assortment

Part No. CPKMS

1,000 Pieces (Comes in a PB24 parts bin)

Back of Drawer

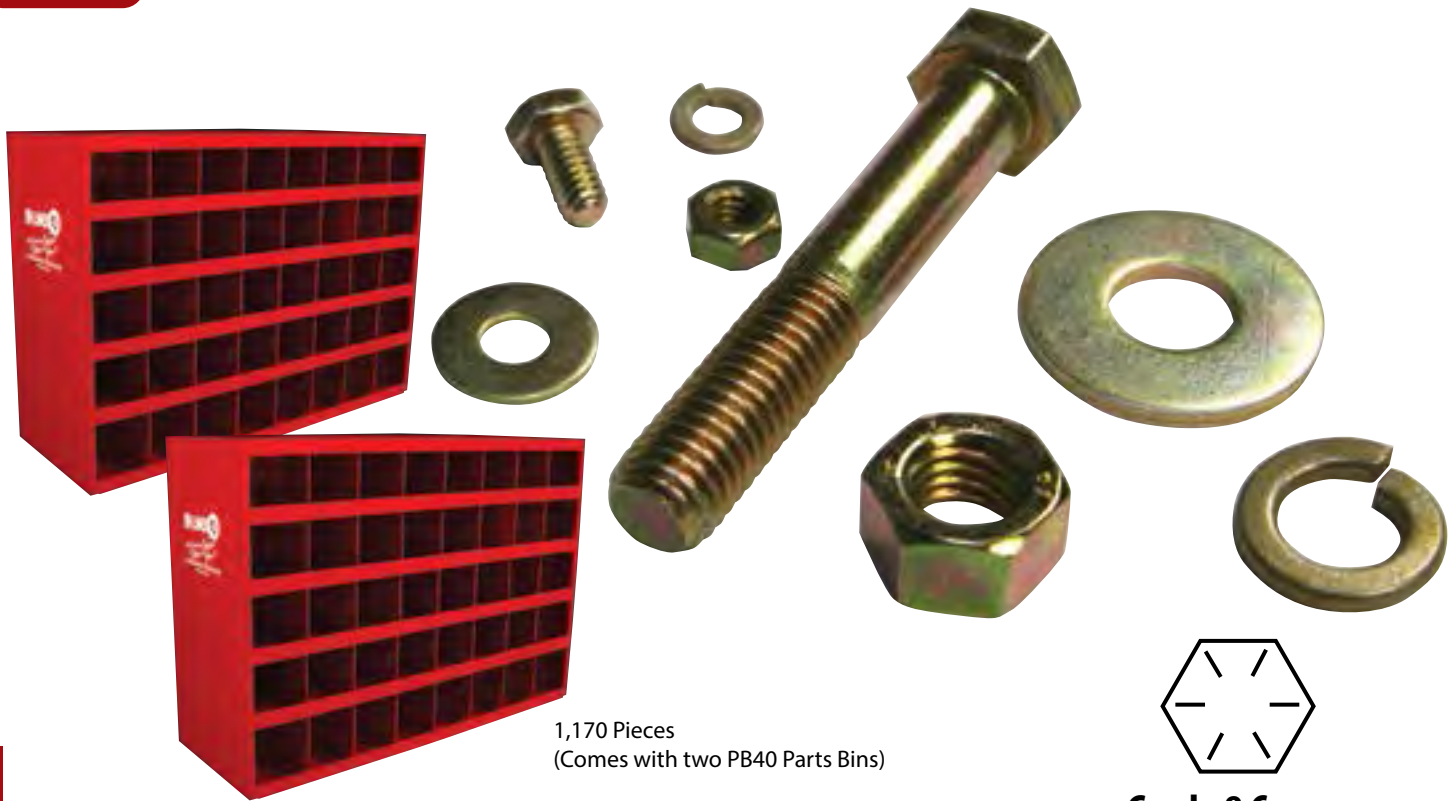
1/8" X 2-1/2" COTTER PIN PLATED MS24665362	1/8" X 3" COTTER PIN PLATED MS24665363				
3/32" X 1-1/2" COTTER PIN PLATED MS24665281	3/32" X 1-3/4" COTTER PIN PLATED MS24665283	3/32" X 1/2" COTTER PIN PLATED MS24665285	3/32" X 1-1/4" COTTER PIN PLATED MS24665287	3/32" X 1-1/2" COTTER PIN PLATED MS24665289	1/8" X 2" COTTER PIN PLATED MS24665360
1/32" X 1/2" COTTER PIN PLATED MS246659	1/16" X 1/2" COTTER PIN PLATED MS24665132	1/16" X 3/4" COTTER PIN PLATED MS24665134	1/16" X 1" COTTER PIN PLATED MS24665136	1/16" X 1/4" COTTER PIN PLATED MS24665138	1/16" X 1-1/2" COTTER PIN PLATED MS24665140
1/32" X 1/2" COTTER PIN STAINLESS MS2466522	1/16" X 3/8" COTTER PIN STAINLESS MS246651012	1/16" X 1/2" COTTER PIN STAINLESS MS24665151	1/16" X 3/4" COTTER PIN STAINLESS MS24665153	1/16" X 1" COTTER PIN STAINLESS MS24665155	3/32" X 1" COTTER PIN STAINLESS MS24665302

Front of Drawer





Fastener Assortments



1,170 Pieces
(Comes with two PB40 Parts Bins)

Grade 8 Coarse

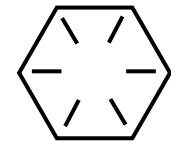
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Grade 8 Bolts (USS Coarse) 1/4" thru 1/2"

Part No. BK8

Available without parts bins as part no. BK8NPB

Dia.	Length	Description	Qty.	Part No.	Dia.	Length	Description	Qty.	Part No.
1/4" – 20		Hex Nut	100	22G	3/8" – 16	1"	Cap Screw	15	22I1
1/4"		Lock Washer	100	25G	3/8" – 16	1-1/2"	Cap Screw	10	22I112
1/4"		Flat Washer	100	23G	3/8" – 16	2"	Cap Screw	10	22I2
1/4" – 20	1/2"	Cap Screw	25	22G12	3/8" – 16	2-1/2"	Cap Screw	5	22I212
1/4" – 20	3/4"	Cap Screw	25	22G34	3/8" – 16	3"	Cap Screw	5	22I3
1/4" – 20	1"	Cap Screw	25	22G1	7/16" – 14		Hex Nut	25	22J
1/4" – 20	1-1/2"	Cap Screw	10	22G112	7/16"		Lock Washer	25	25J
5/16" – 18		Hex Nut	100	22H	7/16"		Flat Washer	25	23J
5/16"		Lock Washer	100	25H	7/16" – 14	1"	Cap Screw	10	22J1
5/16"		Flat Washer	100	23H	7/16" – 14	1-1/2"	Cap Screw	5	22J112
5/16" – 18	3/4"	Cap Screw	25	22H34	7/16" – 14	2"	Cap Screw	5	22J2
5/16" – 18	1"	Cap Screw	25	22H1	1/2" – 13		Hex Nut	25	22K
5/16" – 18	1-1/2"	Cap Screw	25	22H112	1/2"		Lock Washer	25	25K
5/16" – 18	2"	Cap Screw	10	22H2	1/2"		Flat Washer	25	23K
5/16" – 18	2-1/2"	Cap Screw	5	22H212	1/2" – 13	1"	Cap Screw	10	22K1
3/8" – 16		Hex Nut	50	22I	1/2" – 13	1-1/2"	Cap Screw	5	22K112
3/8"		Lock Washer	50	25I	1/2" – 13	2"	Cap Screw	5	22K2
3/8"		Flat Washer	50	23I	1/2" – 13	3"	Cap Screw	5	22K3



Grade 8 Coarse

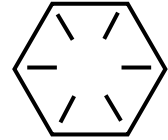
Grade 8 Bolts (USS Coarse) 1/4" thru 1/2"									
Part No. BK8SA									
Dia.	Length	Description	Qty	Part No.	Dia.	Length	Description	Qty	Part No.
1/4" - 20		Hex Nut	50	22G	3/8" - 16	1"	Cap Screw	25	22I1
1/4"		Lock Washer	100	25G	3/8" - 16	1-1/2"	Cap Screw	25	22I112
1/4"		Flat Washer	100	23G	3/8" - 16	2"	Cap Screw	25	22I2
1/4" - 20	1/2"	Cap Screw	25	22G12	3/8" - 16	2-1/2"	Cap Screw	10	22I212
1/4" - 20	3/4"	Cap Screw	25	22G34	7/16" - 14		Hex Nut	25	22J
1/4" - 20	1"	Cap Screw	25	22G1	7/16"		Lock Washer	50	25J
1/4" - 20	1-1/4"	Cap Screw	25	22G114	7/16"		Flat Washer	50	23J
1/4" - 20	1-1/2"	Cap Screw	25	22G112	7/16" - 14	1"	Cap Screw	25	22J1
5/16" - 18		Hex Nut	50	22H	7/16" - 14	1-1/4"	Cap Screw	25	22J114
5/16"		Lock Washer	50	25H	7/16" - 14	1-1/2"	Cap Screw	10	22J112
5/16"		Flat Washer	50	23H	7/16" - 14	2"	Cap Screw	10	22J2
5/16" - 18	3/4"	Cap Screw	25	22H34	7/16" - 14	2-1/2"	Cap Screw	10	22J212
5/16" - 18	1"	Cap Screw	25	22H1	1/2" - 13		Hex Nut	25	22K
5/16" - 18	1-1/4"	Cap Screw	25	22H114	1/2"		Lock Washer	50	25K
5/16" - 18	1-1/2"	Cap Screw	25	22H112	1/2"		Flat Washer	25	23K
5/16" - 18	2"	Cap Screw	25	22H2	1/2" - 13	1-1/4"	Cap Screw	10	22K114
3/8" - 16		Hex Nut	50	22I	1/2" - 13	1-1/2"	Cap Screw	10	22K112
3/8"		Lock Washer	50	25I	1/2" - 13	2"	Cap Screw	10	22K2
3/8"		Flat Washer	50	23I	1/2" - 13	2-1/2"	Cap Screw	10	22K212
3/8" - 16	3/4"	Cap Screw	25	22I34	1/2" - 13	3"	Cap Screw	10	22K3



Fastener Assortments



1,739 Pieces
(Comes with three PB40 Parts Bins)

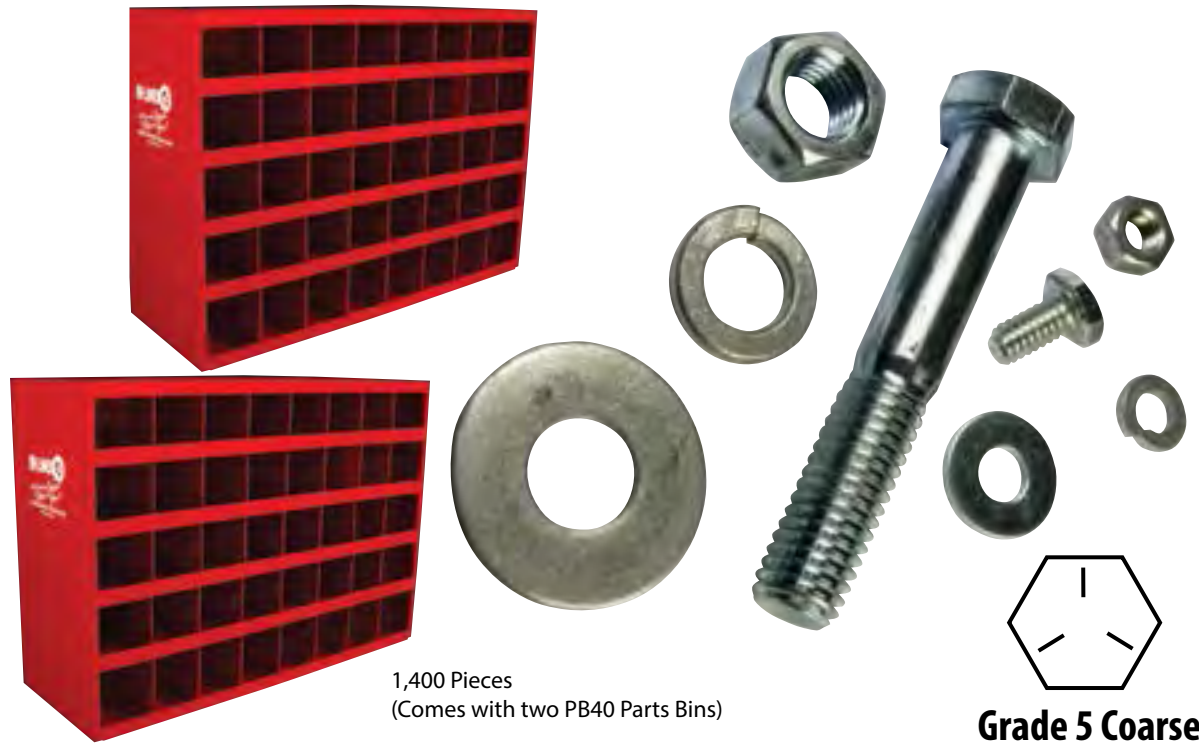


Grade 8 U.S.S

Grade 8 USS Bolts 1/4" thru 1" Part No. BK8141S

Dia.	Length	Description	Qty.	Part No.	Dia.	Length	Description	Qty.	Part No.	Dia.	Length	Description	Qty.	Part No.
1/4" - 20		Hex Nut	50	22G	3/8" - 16	4"	Cap Screw	10	22I4	5/8" - 11	1-3/4"	Cap Screw	5	22M134
1/4"		Lock Washer	50	25G	3/8" - 16	4-1/2"	Cap Screw	5	22I412	5/8" - 11	2"	Cap Screw	5	22M2
1/4"		Flat Washer	50	23G	3/8" - 16	5"	Cap Screw	5	22I5	5/8" - 11	2-1/2"	Cap Screw	5	22M212
1/4" - 20	1/2"	Cap Screw	25	22G12	3/8" - 16	5-1/2"	Cap Screw	5	22I512	5/8" - 11	3"	Cap Screw	5	22M3
1/4" - 20	3/4"	Cap Screw	25	22G34	3/8" - 16	6"	Cap Screw	5	22I6	5/8" - 11	3-1/2"	Cap Screw	5	22M312
1/4" - 20	1"	Cap Screw	25	22G1	7/16"		Hex Nut	50	22J	5/8" - 11	4"	Cap Screw	4	22M4
1/4" - 20	1-1/2"	Cap Screw	25	22G112	7/16"		Lock Washer	50	25J	5/8" - 11	4-1/2"	Cap Screw	4	22M412
1/4" - 20	1-3/4"	Cap Screw	25	22G134	7/16" - 14		Flat Washer	50	23J	5/8" - 11	5"	Cap Screw	4	22M5
1/4" - 20	2"	Cap Screw	25	22G2	7/16" - 14	3/4"	Cap Screw	25	22J34	5/8" - 11	5-1/2"	Cap Screw	4	22M512
1/4" - 20	2-1/2"	Cap Screw	10	22G212	7/16" - 14	1"	Cap Screw	25	22J1	5/8" - 11	6	Cap Screw	4	22M6
1/4" - 20	3"	Cap Screw	10	22G3	7/16" - 14	1-1/2"	Cap Screw	10	22J112	3/4" - 10		Hex Nut	10	22N
1/4" - 20	3-1/2"	Cap Screw	10	22G312	7/16" - 14	2"	Cap Screw	10	22J2	3/4"		Lock Washer	25	25N
1/4" - 20	4"	Cap Screw	10	22G4	7/16" - 14	2-1/2"	Cap Screw	10	22J212	3/4"		Flat Washer	10	23N
1/4" - 20	5"	Cap Screw	10	22G5	7/16" - 14	3"	Cap Screw	10	22J3	3/4" - 10	1"	Cap Screw	4	22N1
1/4" - 20	6"	Cap Screw	5	22G6	7/16" - 14	3-1/2"	Cap Screw	4	22J312	3/4" - 10	1-1/2"	Cap Screw	4	22N112
5/16" - 18		Hex Nut	50	22H	7/16" - 14	4"	Cap Screw	4	22J4	3/4" - 10	1-3/4"	Cap Screw	4	22N134
5/16"		Lock Washer	50	25H	7/16" - 14	4-1/2"	Cap Screw	4	22J412	3/4" - 10	2"	Cap Screw	4	22N2
5/16"		Flat Washer	50	23H	7/16" - 14	5"	Cap Screw	4	22J5	3/4" - 10	2-1/2"	Cap Screw	4	22N212
5/16" - 18	1/2"	Cap Screw	25	22H12	7/16" - 14	5-1/2"	Cap Screw	4	22J512	3/4" - 10	3"	Cap Screw	4	22N3
5/16" - 18	3/4"	Cap Screw	25	22H34	7/16" - 14	6	Cap Screw	4	22J6	3/4" - 10	3-1/2"	Cap Screw	4	22N312
5/16" - 18	1"	Cap Screw	25	22H1	1/2" - 13		Hex Nut	25	22K	3/4" - 10	4"	Cap Screw	4	22N4
5/16" - 18	1-1/2"	Cap Screw	25	22H112	1/2"		Lock Washer	50	25K	3/4" - 10	4-1/2"	Cap Screw	4	22N412
5/16" - 18	1-3/4"	Cap Screw	25	22H134	1/2"		Flat Washer	25	23K	3/4" - 10	5"	Cap Screw	4	22N5
5/16" - 18	2"	Cap Screw	25	22H2	1/2" - 13	3/4"	Cap Screw	4	22K34	3/4" - 10	5-1/2"	Cap Screw	4	22N512
5/16" - 18	2-1/2"	Cap Screw	10	22H212	1/2" - 13	1"	Cap Screw	10	22K1	3/4" - 10	6	Cap Screw	4	22N6
5/16" - 18	3"	Cap Screw	10	22H3	1/2" - 13	1-1/2"	Cap Screw	10	22K112	1" - 8		Hex Nut	5	22P
5/16" - 18	3-1/2"	Cap Screw	10	22H312	1/2" - 13	2"	Cap Screw	10	22K2	1"		Lock Washer	10	25P
5/16" - 18	4"	Cap Screw	10	22H4	1/2" - 13	2-1/2"	Cap Screw	5	22K212	1"		Flat Washer	10	23P
5/16" - 18	5"	Cap Screw	5	22H5	1/2" - 13	3"	Cap Screw	5	22K3	1" - 8	1-1/2"	Cap Screw	4	22P112
5/16" - 18	6"	Cap Screw	5	22H6	1/2" - 13	3-1/2"	Cap Screw	5	22K312	1" - 8	1-3/4"	Cap Screw	4	22P134
3/8" - 16		Hex Nut	50	22I	1/2" - 13	4"	Cap Screw	5	22K4	1" - 8	2"	Cap Screw	4	22P2
3/8"		Lock Washer	50	25I	1/2" - 13	4-1/2"	Cap Screw	4	22K412	1" - 8	2-1/4"	Cap Screw	4	22P214
3/8"		Flat Washer	50	23I	1/2" - 13	5"	Cap Screw	4	22K5	1" - 8	2-1/2"	Cap Screw	4	22P212
3/8" - 16	1/2"	Cap Screw	25	22I12	1/2" - 13	5-1/2"	Cap Screw	4	22K512	1" - 8	3"	Cap Screw	4	22P3
3/8" - 16	1"	Cap Screw	25	22I1	1/2" - 13	6	Cap Screw	4	22K6	1" - 8	3-1/2"	Cap Screw	4	22P312
3/8" - 16	1-1/2"	Cap Screw	25	22I112	5/8" - 11		Hex Nut	25	22M	1" - 8	4"	Cap Screw	4	22P4
3/8" - 16	2"	Cap Screw	25	22I2	5/8"		Lock Washer	25	25M	1" - 8	4-1/2"	Cap Screw	4	22P412
3/8" - 16	2-1/2"	Cap Screw	10	22I212	5/8"		Flat Washer	10	23M	1" - 8	5"	Cap Screw	4	22P5
3/8" - 16	3"	Cap Screw	10	22I3	5/8" - 11	1"	Cap Screw	10	22M1	1" - 8	6"	Cap Screw	4	22P6
3/8" - 16	3-1/2"	Cap Screw	10	22I312	5/8" - 11	1-1/2"	Cap Screw	5	22M112					

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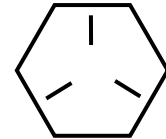
Grade 5 Bolts (USS Coarse)									
Part No. BK									
Available without parts bins as part no. BKNPB									
Dia.	Length	Description	Qty	Part No.	Dia.	Length	Description	Qty	Part No.
1/4" – 20		Hex Nut	100	16G	3/8" – 16	1"	Cap Screw	15	2011
1/4"		Lock Washer	100	34G	3/8" – 16	1-1/2"	Cap Screw	10	220112
1/4"		Flat Washer	100	10G	3/8" – 16	2"	Cap Screw	10	2012
1/4" – 20	1/2"	Cap Screw	50	20G12	3/8" – 16	2-1/2"	Cap Screw	5	201212
1/4" – 20	3/4"	Cap Screw	50	20G34	3/8" – 16	3"	Cap Screw	5	2013
1/4" – 20	1"	Cap Screw	50	20G1	7/16" – 14		Hex Nut	25	16J
1/4" – 20	1-1/2"	Cap Screw	25	20G112	7/16"		Lock Washer	25	34J
5/16" – 18		Hex Nut	100	16H	7/16"		Flat Washer	25	10J
5/16"		Lock Washer	100	34H	7/16" – 14	1"	Cap Screw	15	20J1
5/16"		Flat Washer	100	10H	7/16" – 14	1-1/2"	Cap Screw	10	20J112
5/16" – 18	3/4"	Cap Screw	50	20H34	7/16" – 14	2"	Cap Screw	10	20J2
5/16" – 18	1"	Cap Screw	50	20H1	1/2" – 13		Hex Nut	25	16K
5/16" – 18	1-1/2"	Cap Screw	50	20H112	1/2"		Lock Washer	25	34K
5/16" – 18	2"	Cap Screw	15	20H2	1/2"		Flat Washer	25	10K
5/16" – 18	2-1/2"	Cap Screw	10	20H212	1/2" – 13	1"	Cap Screw	15	20K1
3/8" – 16		Hex Nut	50	16I	1/2" – 13	1-1/2"	Cap Screw	10	20K112
3/8"		Lock Washer	50	34I	1/2" – 13	2"	Cap Screw	5	20K2
3/8"		Flat Washer	50	10I	1/2" – 13	3"	Cap Screw	5	20K3



Fastener Assortments



1,165 Pieces
(Comes with one PB40 Parts Bin)



Grade 5 Coarse

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Grade 5 Bolts (USS Coarse) 1/4" thru 1/2"

Part No. BKSA

Dia.	Length	Description	Qty	Part No.	Dia.	Length	Description	Qty	Part No.
1/4" – 20		Hex Nut	50	16G	3/8" – 16	1"	Cap Screw	25	20I1
1/4"		Lock Washer	50	34G	3/8" – 16	1-1/2"	Cap Screw	25	20I112
1/4"		Flat Washer	50	10G	3/8" – 16	2"	Cap Screw	25	20I2
1/4" – 20	1/2"	Cap Screw	25	20G12	3/8" – 16	2-1/2"	Cap Screw	10	20I212
1/4" – 20	3/4"	Cap Screw	25	20G34	7/16" – 14		Hex Nut	25	16J
1/4" – 20	1"	Cap Screw	25	20G1	7/16"		Lock Washer	50	34J
1/4" – 20	1-1/4"	Cap Screw	25	20G114	7/16"		Flat Washer	50	10J
1/4" – 20	1-1/2"	Cap Screw	25	20G112	7/16" – 14	1"	Cap Screw	25	20J1
5/16" – 18		Hex Nut	50	16H	7/16" – 14	1-1/4"	Cap Screw	25	20J114
5/16"		Lock Washer	50	34H	7/16" – 14	1-1/2"	Cap Screw	10	20J112
5/16"		Flat Washer	50	10H	7/16" – 14	2"	Cap Screw	10	20J2
5/16" – 18	3/4"	Cap Screw	25	20H34	7/16" – 14	2-1/2"	Cap Screw	10	20J212
5/16" – 18	1"	Cap Screw	25	20H1	1/2" – 13		Hex Nut	25	16K
5/16" – 18	1-1/4"	Cap Screw	25	20H114	1/2"		Lock Washer	50	34K
5/16" – 18	1-1/2"	Cap Screw	25	20H112	1/2"		Flat Washer	25	10K
5/16" – 18	2"	Cap Screw	25	20H2	1/2" – 13	1-1/4"	Cap Screw	10	20K114
3/8" – 16		Hex Nut	50	16I	1/2" – 13	1-1/2"	Cap Screw	10	20K112
3/8"		Lock Washer	50	34I	1/2" – 13	2"	Cap Screw	10	20K2
3/8"		Flat Washer	50	10I	1/2" – 13	2-1/2"	Cap Screw	10	20K212
3/8" – 16	3/4"	Cap Screw	25	20I34	1/2" – 13	3"	Cap Screw	10	20K3



Socket Head Cap Screws

Full Assortment

Part No. SCSK

800 Pieces (Comes in a PB32 parts bin)

Back of Drawer

25 #10-32 x 1-1/2" SCKT HD CP SCREW 38EF112	25 #10-32 x 2" SCKT HD CP SCREW 38EF2	25 1/4"-20 x 1/2" SCKT HD CP SCREW 38G12	25 1/4"-20 x 3/4" SCKT HD CP SCREW 38G34	25 1/4"-20 x 1" SCKT HD CP SCREW 38G1	25 1/4"-20 x 1-1/4" SCKT HD CP SCREW 38G114	25 1/4"-20 x 1-1/2" SCKT HD CP SCREW 38G112	25 1/4"-20 x 2" SCKT HD CP SCREW 38G2
25 #10-24 x 1-1/4" SCKT HD CP SCREW 38E114	25 #10-24 x 1-1/2" SCKT HD CP SCREW 38E112	25 #10-24 x 2" SCKT HD CP SCREW 38E2	25 #10-32 x 3/8" SCKT HD CP SCREW 38EF38	25 #10-32 x 1/2" SCKT HD CP SCREW 38EF12	25 #10-32 x 3/4" SCKT HD CP SCREW 38EF34	25 #10-32 x 1" SCKT HD CP SCREW 38EF1	25 #10-32 x 1-1/4" SCKT HD CP SCREW 38EF114
25 #8-32 x 3/4" SCKT HD CP SCREW 38D34	25 #8-32 x 1" SCKT HD CP SCREW 38D1	25 #8-32 x 1-1/4" SCKT HD CP SCREW 38D114	25 #8-32 x 1-1/2" SCKT HD CP SCREW 38D112	25 #10-32 x 3/8" SCKT HD CP SCREW 38E38	25 #10-32 x 1/2" SCKT HD CP SCREW 38E12	25 #10-32 x 3/4" SCKT HD CP SCREW 38E34	25 #10-32 x 1" SCKT HD CP SCREW 38E1
25 #6-32 x 1/4" SCKT HD CP SCREW 38C14	25 #6-32 x 3/8" SCKT HD CP SCREW 38C38	25 #6-32 x 1/2" SCKT HD CP SCREW 38C12	25 #6-32 x 3/4" SCKT HD CP SCREW 38C34	25 #6-32 x 1" SCKT HD CP SCREW 38C1	25 #8-32 x 1/4" SCKT HD CP SCREW 38D14	25 #8-32 x 3/8" SCKT HD CP SCREW 38D38	25 #8-32 x 1/2" SCKT HD CP SCREW 38D12

Front of Drawer

Socket Set Screws

Full Assortment

Part No. SSSK

550 Pieces (Comes in a PB24 parts bin)

Back of Drawer

25 #10-32 x 1/2" SOCKET SET SCREW 51EF12	25 1/4"-20 x 3/16" SOCKET SET SCREW 51G316	25 1/4"-20 x 1/4" SOCKET SET SCREW 51G14	25 1/4-20 X 3/8" SOCKET SET SCREW 51G38		
25 #10-24 x 1/4" SOCKET SET SCREW 51E14	25 #10-24 x 3/8" SOCKET SET SCREW 51E38	25 #10-24 x 1/2" SOCKET SET SCREW 51E12	25 #10-32 x 3/16" SOCKET SET SCREW 51EF316	25 #10-32 x 1/4" SOCKET SET SCREW 51EF14	25 1/4-20 X 3/8" SOCKET SET SCREW 51EF38
25 #6-32 x 1/2" SOCKET SET SCREW 51C12	25 #8-32 x 3/16" SOCKET SET SCREW 51D316	25 #8-32 x 1/4" SOCKET SET SCREW 51D14	25 #8-32 x 3/8" SOCKET SET SCREW 51D38	25 #8-32 x 1/2" SOCKET SET SCREW 51D12	25 #10-24 x 3/16" SOCKET SET SCREW 51E316
25 #4-40 x 3/16" SOCKET SET SCREW 51B316	25 #4-40 x 1/4" SOCKET SET SCREW 51B14	25 #4-40 x 3/8" SOCKET SET SCREW 51B38	25 #6-32 x 3/16" SOCKET SET SCREW 51C316	25 #6-32 x 1/4" SOCKET SET SCREW 51C14	25 #6-32 x 3/8" SOCKET SET SCREW 51C38

Front of Drawer



Fastener Assortments

Machine Screws – Phillips Pan Head

Full Assortment

Part No. PMSK

1500 Pieces (Comes in a PB32 parts bin)

Starter Assortment

Part No. PMSKSA

750 Pieces (Includes a PB32 parts bin)

Back of Drawer

50 / 25 1/4"-20 HEX NUT 08G	50 / 25 1/4"-20 LOCK WASHER 34G	50 / 25 1/4"-20 FLAT WASHER 36G	50 / 25 1/4"-20 x 1/2" 05G12	50 / 25 1/4"-20 x 3/4" 05G34	50 / 25 1/4"-20 x 1" 05G1		
50 / 25 #10-24 x 3/4" 05E34	50 / 25 #10-24 x 1" 05E1	50 / 25 #10-24 x 1-1/2" 05E112	#10-32\" MACH. SCREW HEX NUT 08EF"/> 50 / 25 #10-32" MACH. SCREW HEX NUT 08EF	50 / 25 #10-32 x 1/2" 05EF12	50 / 25 #10-32 x 3/4" 05EF34	50 / 25 #10-32 x 1" 05EF1	50 / 25 #10-32 x 1-1/2" 053EF112
50 / 25 #8 FLAT WASHER 36D	50 / 25 #8-32 x 1/2" 05D12	50 / 25 #8-32 x 3/4" 05D34	50 / 25 #8-32 x 1" 05D1	50 / 25 #10-24 HEX NUT 08E	50 / 25 #10 LOCK WASHER 34E	50 / 25 #10 FLAT WASHER 36E	50 / 25 #10-24 x 1/2" 05E12
50 / 25 #6-32 HEX NUT 08C	50 / 25 #6 LOCK WASHER 34C	50 / 25 #6 FLAT WASHER 36C	50 / 25 #6-32 x 1/2" 05C12	50 / 25 #6-32 x 3/4" 05C34	50 / 25 #6-32 x 1" 05C1	50 / 25 #8-32 HEX NUT 08D	50 / 25 #8 LOCK WASHER 34D

Front of Drawer

Machine Screws – Slotted Round Head

Full Assortment

Part No. MSK

2,075 Pieces (Comes in a PB32 parts bin)

Back of Drawer

100 1/4"-20 MACH. SCREW HEX NUT 08G	100 1/4"-20 SPLIT LOCK WASHER 34G	100 1/4"-20 GRADE 2 FLAT WASHER 36G	50 1/4"-20 x 1/2" SLTD ROUND HD MS 01G12	50 1/4"-20 x 3/4" SLTD ROUND HD MS 01G34	50 1/4"-20 x 1" SLTD ROUND HD MS 01G1		
50 #10-24 x 3/4" SLTD ROUND HD MS 01E34	50 #10-24 x 1" SLTD ROUND HD MS 01E1	25 #10-24 x 1-1/2" SLTD ROUND HD MS 01E112	#10-32\" MACH. SCREW HEX NUT 08EF"/> 100 #10-32" MACH. SCREW HEX NUT 08EF	50 #10-32 x 1/2" SLTD ROUND HD MS 01EF12	50 #10-32 x 3/4" SLTD ROUND HD MS 01EF34	50 #10-32 x 1" SLTD ROUND HD MS 01EF1	25 #10-32 x 1-1/2" SLTD ROUND HD MS 01EF112
100 #8 GRADE 2 FLAT WASHER 36D	50 #8 x 1/2" SLTD ROUND HD MS 01D12	50 #8 x 3/4" SLTD ROUND HD MS 01D34	50 #8 x 1" SLTD ROUND HD MS 01D1	100 #10-24 MACH. SCREW HEX NUT 08E	100 #10 SPLIT LOCK WASHER 34E	100 #10 GRADE 2 FLAT WASHER 36E	50 #10-24 x 1/2" SLTD ROUND HD MS 01E12
100 #6-32 MACH. SCREW HEX NUT 08C	100 #6 SPLIT LOCK WASHER 34C	100 #6 GRADE 2 FLAT WASHER 36C	50 #6-32 x 1/2" SLTD ROUND HD MS 01C12	50 #6-32 x 3/4" SLTD ROUND HD MS 01C34	50 #6-32 x 1" SLTD ROUND HD MS 01C1	100 #8-32 MACH. SCREW HEX NUT 08D	100 #8 SPLIT LOCK WASHER 34D

Front of Drawer



Sheet Metal Screws – Slotted Hex Washer Head*

Full Assortment

Part No. SMH *5/16" Dia. Not Slotted

905 Pieces (Comes in a PB24 parts bin)

Back of Drawer

			10	10	10
50	50	50	50	50	25
50	50	50	50	50	50
50	50	50	50	50	50

Front of Drawer

Sheet Metal Screws – Phillips Pan Head

Full Assortment

Part No. SMPP

975 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. SMPPSA

510 Pieces (Includes a PB24 parts bin)

Back of Drawer

50 / 25	25 / 15	25 / 15	25 / 15	25 / 15	25 / 15
50 / 25	50 / 25	25 / 15	25 / 15	50 / 25	50 / 25
50 / 25	50 / 25	25 / 15	25 / 15	50 / 25	50 / 25
50 / 25	50 / 25	50 / 25	50 / 25	50 / 25	50 / 25

Front of Drawer



Body Bolts & Nuts – Inch

Full Assortment

Part No. **BBNK**

170 Pieces (Comes in a PB20 parts bin)

Back of Drawer

Front of Drawer

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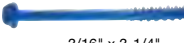
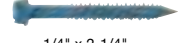

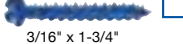
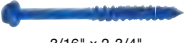
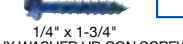

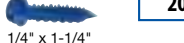

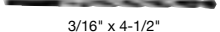


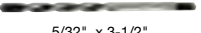
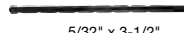
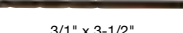


Concrete Screws – Slotted Hex Washer Head

Full Assortment

Part No. CSHHK

160 Pieces (Comes in a PBADJ parts bin)



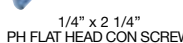




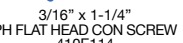




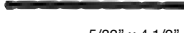
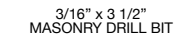
Back of Drawer			
 25 3/16" x 2-1/4" SLTD HX WASHER HD CON SCREW 300E214	 15 3/16" x 3-1/4" SLTD HX WASHER HD CON SCREW 300E314	 20 1/4" x 2-1/4" SLTD HX WASHER HD CON SCREW 300G214	 15 1/4" x 3-1/4" SLTD HX WASHER HD CON SCREW 300G314
 50 3/16" x 1-3/4" SLTD HX WASHER HD CON SCREW 300E134	 25 3/16" x 2-3/4" SLTD HX WASHER HD CON SCREW 300E234	 20 1/4" x 1-3/4" SLTD HX WASHER HD CON SCREW 300G134	
 50 3/16" x 1-1/4" SLTD HX WASHER HD CON SCREW 300E114		 20 1/4" x 1-1/4" SLTD HX WASHER HD CON SCREW 300G114	
 2 1/4" HEX MAGNETIC NUTSETTER MNS4	 1 3/16" x 4-1/2" MASONRY DRILL BIT DBBTGX412	 2 5/16" HEX MAGNETIC NUTSETTER MNS5	 15 1/4" x 2-3/4" SLTD HX WASHER HD CON SCREW 300G234
 1 5/32" x 3-1/2" MASONRY DRILL BIT DBBTEX312	 1 5/32" x 3-1/2" MASONRY DRILL BIT DBBTEX412	 1 3/16" x 3-1/2" MASONRY DRILL BIT DBBTGX312	
Front of Drawer			

Concrete Screws – Phillips Head

Full Assortment

Part No. CSPHK

213 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 25 3/16" x 2-1/4" PH FLAT HEAD CON SCREW 410E214	 15 3/16" x 3 1/4" PH FLAT HEAD CON SCREW 410E314	 20 1/4" x 2 1/4" PH FLAT HEAD CON SCREW 410G214	 15 1/4" x 3-1/4" PH FLAT HEAD CON SCREW 410G314
 25 3/16" x 1-3/4" PH FLAT HEAD CON SCREW 410E134	 25 3/16" x 2 3/4" PH FLAT HEAD CON SCREW 410E234	 20 1/4" x 1 3/4" PH FLAT HEAD CON SCREW 410G134	
 25 3/16" x 1-1/4" PH FLAT HEAD CON SCREW 410E114		 20 1/4" x 1 1/4" PH FLAT HEAD CON SCREW 410G114	 15 1/4" x 2-3/4" PH FLAT HEAD CON SCREW 410G234
2 #2 PHILLIPS - ACR POWER BIT BD2PD	 1 3/16" x 4 1/2" MASONRY DRILL BIT DBBTGX412	2 #3 PHILLIPS - ACR POWER BIT BD3PD	
 1 5/32" x 3 1/2" MASONRY DRILL BIT DBBTEX312	 1 5/32" x 4 1/2" MASONRY DRILL BIT DBBTEX412	 1 3/16" x 3 1/2" MASONRY DRILL BIT DBBTGX312	
Front of Drawer			



Fastener Assortments























Drill Point Screws – Zinc Plated

Full Assortment

Part No. SMTEKZP

753 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 #14 x 3/4" HX WASH HD DRILL POINT 31G34	25	 #14 x 1" HX WASH HD DRILL POINT 31G1	25	 #14 x 1-1/2" HX WASH HD DRILL POINT 31G112	25	 #14 x 2" HX WASH HD DRILL POINT 31G2	25				
 #10 x 2-1/2" HX WASH HD DRILL POINT 31E212	25	 #12 x 3/4" HX WASH HD DRILL POINT 31F34	50	 #12 x 1" HX WASH HD DRILL POINT 31F1	50	 #12 x 1-1/2" HX WASH HD DRILL POINT 31F112	50	 #12 x 2" HX WASH HD DRILL POINT 31F2	25	 #12 x 2-1/2" HX WASH HD DRILL POINT 31F212	25
 #8 x 1-1/2" HX WASH HD DRILL POINT 31D112	50	 #10 x 1/2" HX WASH HD DRILL POINT 31E12	50	 #10 x 3/4" HX WASH HD DRILL POINT 31E34	50	 #10 x 1" HX WASH HD DRILL POINT 31E1	50	 #10 x 1-1/2" HX WASH HD DRILL POINT 31E112	50	 #10 x 2" HX WASH HD DRILL POINT 31E2	25
 1/4" HEX MAGNETIC NUTSETTER MNS4	1	 5/16" HEX MAGNETIC NUTSETTER MNS5	1	 3/8" HEX MAGNETIC NUTSETTER MNS6	1	 #8 x 1/2" HX WASH HD DRILL POINT 31D12	50	 #8 x 3/4" HX WASH HD DRILL POINT 31D34	50	 #8 x 1" HX WASH HD DRILL POINT 31D1	50

Front of Drawer

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Drill Point Screws

Full Assortment

Part No. SMTEK






852 Pieces (Comes in a PB24 parts bin)

Starter Assortment

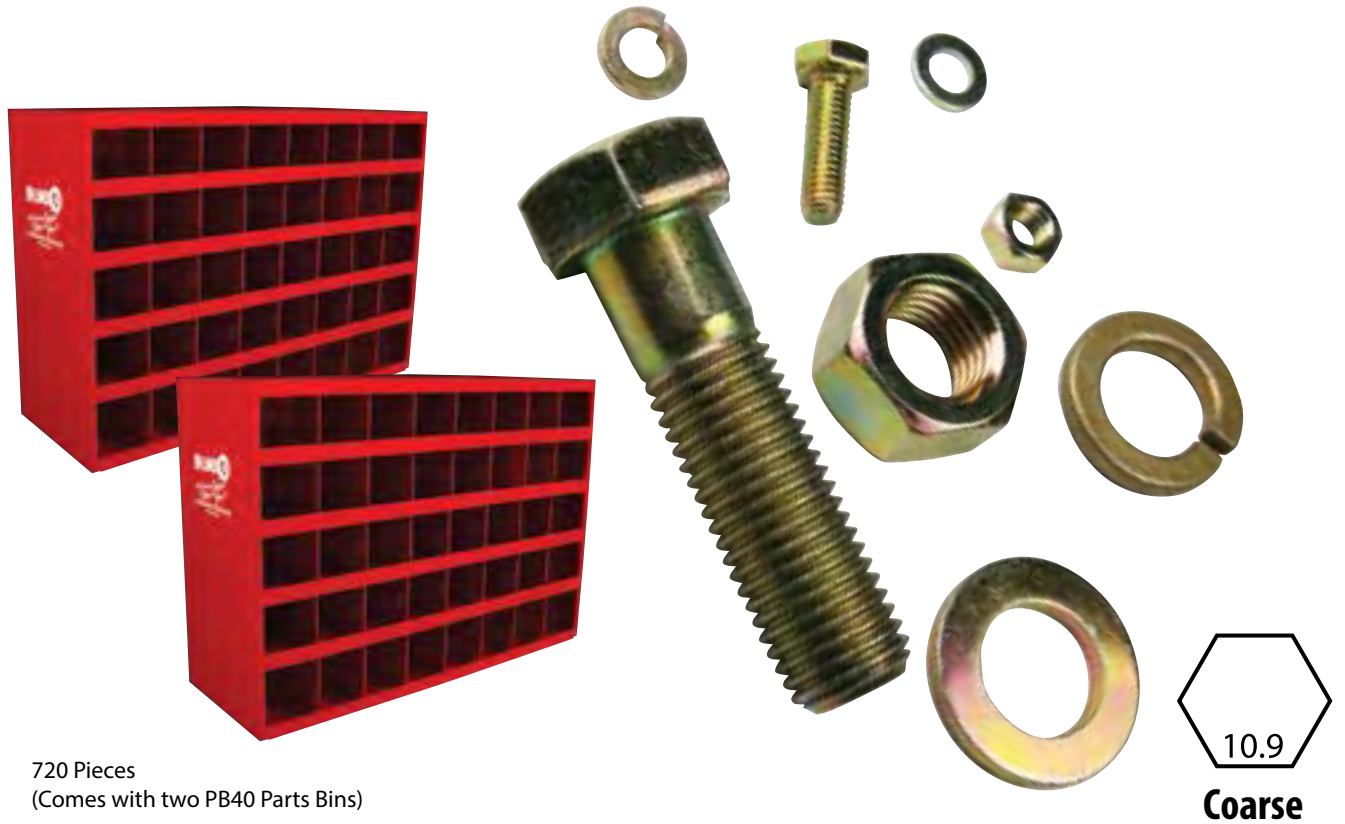
Part No. SMTEKSA

272ww Pieces (Includes a PB24 parts bin)

Back of Drawer

 #12 x 3/4" HX WASH HD DRILL POINT 31F34BK	25 / 10	 #12 x 1" HX WASH HD DRILL POINT 31F1	50 / 15	 #12 x 1" HX WASH HD DRILL POINT 31F1BK	25 / 10	 #12 x 1-1/2" HX WASH HD DRILL POINT 31F112BK	25 / 10				
 #10 x 1" HX WASH HD DRILL POINT 31E1	50 / 15	 #10 x 1" HX WASH HD DRILL POINT 31E1BK	50 / 15	 #10 x 1-1/4" HX WASH HD DRILL POINT 31E114	25 / 15	 #10 x 1-1/4" HX WASH HD DRILL POINT 31E114BK	25 / 10	 #10 x 1-1/2" HX WASH HD DRILL POINT 31E112BK	25 / 10	 #12 x 3/4" HX WASH HD DRILL POINT 31F34	50 / 15
 #8 x 1" HX WASH HD DRILL POINT 31D1	50 / 15	 #8 x 1" HX WASH HD DRILL POINT 31D1BK	50 / 15	 #10 x 1/2" HX WASH HD DRILL POINT 31E12	50 / 15	 #10 x 1/2" HX WASH HD DRILL POINT 31E12BK	50 / 15	 #10 x 3/4" HX WASH HD DRILL POINT 31E34	50 / 15	 #10 x 3/4" HX WASH HD DRILL POINT 31E34BK	50 / 15
 1/4" HEX MAGNETIC NUTSETTER MNS4	1 / 1	 5/16" HEX MAGNETIC NUTSETTER MNS5	1 / 1	 #8 x 1/2" HX WASH HD DRILL POINT 31D12	50 / 15	 #8 x 1/2" HX WASH HD DRILL POINT 31D12BK	50 / 15	 #8 x 3/4" HX WASH HD DRILL POINT 31D34	50 / 15	 #8 x 3/4" HX WASH HD DRILL POINT 31D34BK	50 / 15

Front of Drawer



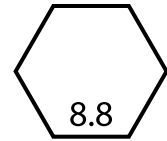
720 Pieces
(Comes with two PB40 Parts Bins)

Coarse

10.9 Metric Bolts Part No. MBK10.9 Available without parts bins as part no. MBK10.9NPB							
Size	Description	Qty	Part No.	Size	Description	Qty	Part No.
6mm × 1.00mm	Hex Nut	50	986100	10mm × 1.50mm × 25mm	Cap Screw	15	991015025
6mm	Lock Washer	50	836	10mm × 1.50mm × 40mm	Cap Screw	10	991015040
6mm	Flat Washer	50	9996	10mm × 1.50mm × 50mm	Cap Screw	5	991015050
6mm × 1.00mm × 12mm	Cap Screw	25	99610012	10mm × 1.50mm × 65mm	Cap Screw	5	991015065
6mm × 1.00mm × 20mm	Cap Screw	25	99610020	12mm × 1.75mm	Hex Nut	15	9812175
6mm × 1.00mm × 25mm	Cap Screw	25	99610025	12mm	Lock Washer	15	8312
6mm × 1.00mm × 40mm	Cap Screw	15	99610040	12mm	Flat Washer	15	99912
8mm × 1.25	Hex Nut	50	988125	12mm × 1.75mm × 25mm	Cap Screw	10	991217525
8mm	Lock Washer	50	838	12mm × 1.75mm × 40mm	Cap Screw	5	991217540
8mm	Flat Washer	50	9998	12mm × 1.75mm × 50mm	Cap Screw	5	991217550
8mm × 1.25 × 20mm	Cap Screw	25	99812520	12mm × 1.75mm × 75mm	Cap Screw	5	991217575
8mm × 1.25 × 25mm	Cap Screw	25	99812525	16mm × 2.00 mm	Hex Nut	15	9816200
8mm × 1.25 × 40mm	Cap Screw	15	99812540	16mm	Lock Washer	15	8316
8mm × 1.25 × 50mm	Cap Screw	10	99812550	16mm	Flat Washer	15	99916
8mm × 1.25 × 65mm	Cap Screw	5	99812565	16mm × 2.00mm × 25mm	Cap Screw	10	991620025
10mm × 1.50mm	Hex Nut	25	9810150	16mm × 2.00mm × 40mm	Cap Screw	5	991620040
10mm	Lock Washer	25	8310	16mm × 2.00mm × 65mm	Cap Screw	5	991620065
10mm	Flat Washer	25	99910	16mm × 2.00mm × 75mm	Cap Screw	5	991620075



Fastener Assortments



Coarse

720 Pieces
(Comes with two PB40 Parts Bins)

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8.8 Metric Bolts Part No. MBK Available without parts bins as part no. MBKNPB Starter Assortment available as part no. MBKSA (Comes with one PB40 Parts Bin)							
Size	Description	Qty	Part No.	Size	Description	Qty	Part No.
6mm × 1.00mm	Hex Nut	50	816100	10mm × 1.50mm × 25mm	Cap Screw	15	801015025
6mm	Lock Washer	50	836	10mm × 1.50mm × 40mm	Cap Screw	10	801015040
6mm	Flat Washer	50	846	10mm × 1.50mm × 50mm	Cap Screw	5	801015050
6mm × 1.00mm × 12mm	Cap Screw	25	80610012	10mm × 1.50mm × 65mm	Cap Screw	5	801015065
6mm × 1.00mm × 20mm	Cap Screw	25	80610020	12mm × 1.75mm	Hex Nut	15	8112175
6mm × 1.00mm × 25mm	Cap Screw	25	80610025	12mm	Lock Washer	15	8312
6mm × 1.00mm × 40mm	Cap Screw	15	80610040	12mm	Flat Washer	15	8412
8mm × 1.25	Hex Nut	50	818125	12mm × 1.75mm × 25mm	Cap Screw	10	801217525
8mm	Lock Washer	50	838	12mm × 1.75mm × 40mm	Cap Screw	5	801217540
8mm	Flat Washer	50	848	12mm × 1.75mm × 50mm	Cap Screw	5	801217550
8mm × 1.25 × 20mm	Cap Screw	25	80812520	12mm × 1.75mm × 75mm	Cap Screw	5	801217575
8mm × 1.25 × 25mm	Cap Screw	25	80812525	16mm × 2.00 mm	Hex Nut	15	8116200
8mm × 1.25 × 40mm	Cap Screw	15	80812540	16mm	Lock Washer	15	8316
8mm × 1.25 × 50mm	Cap Screw	10	80812550	16mm	Flat Washer	15	8416
8mm × 1.25 × 65mm	Cap Screw	5	80812565	16mm × 2.00mm × 25mm	Cap Screw	10	801620025
10mm × 1.50mm	Hex Nut	25	8110150	16mm × 2.00mm × 40mm	Cap Screw	5	801620040
10mm	Lock Washer	25	8310	16mm × 2.00mm × 65mm	Cap Screw	5	801620065
10mm	Flat Washer	25	8410	16mm × 2.00mm × 75mm	Cap Screw	5	801620075



Body Bolts & Nuts – Metric

Full Assortment

Part No. MBBNK

160 Pieces (Comes in a PB20 parts bin)

Back of Drawer

 HEX HEAD LOOSE WASHERBOLT M10-1.50X40MM - 28MM 100101504028	 SPIN NUT M10X1.50 - 15MM HEX 1011015015	 U-NUT (EXTRUDED) M10 X 1.50 - 3/4 THROAT 1021015034		
 HEX HEAD LOOSE WASHER BOLT M8-1.25X25MM - 24MM 10081252524	 HEX HEAD LOOSE WASHER BOLT M8-1.25X30MM - 24MM 10081253024	 SPIN NUT M8X1.25 - 13MM HEX 101812513	 U-NUT (EXTRUDED) M8-1.25 - 9/16 THROAT 1028125916	 U-NUT (EXTRUDED) M8X1.25 - 13/16 THROAT 10281251316
 FREE SPINNING NUT WASHER M6-1.00 - 10MM HEX 103610010	 FREE SPINNING NUT WASHER M6 X 1.00 - 11MM HEX 103610011	 U-NUT (EXTRUDED) M6-1.00 - 17/32 THROAT 10261001732	 U-NUT (EXTRUDED) M6-1.05 - 25/32 THROAT 10261002532	
 HEX HEAD LOOSE WASHER BOLT M6-1.00X20MM - 16MM 10061002016	 HEX HEAD LOOSE WASHER BOLT M6-1.00X20MM - 24MM 10061002024	 HEX HEAD LOOSE WASHER BOLT M6-1.00X25MM - 16MM 10061002516	 HEX HEAD LOOSE WASHER BOLT 1.00X25MM - 24MM 10061002524	

Front of Drawer

Metric Machine Screws – Phillips Pan Head

Full Assortment

Part No. MMSK































1440 Pieces (Comes in a PB32 parts bin)

Starter Assortment

Part No. MMSKSA

480 Pieces (Includes a PB32 parts bin)

Back of Drawer

 M6 - 1.00 x 20 PHILLIPS PAN HD MS 8961020	 M6 - 1.00 x 25 PHILLIPS PAN HD MS 8961025	 M6 - 1.00 x 30 PHILLIPS PAN HD MS 8961030	 M6 - 1.00 x 40 PHILLIPS PAN HD MS 8961040	 M6 - 1.00 x 50 PHILLIPS PAN HD MS 8961050	 M6 - 1.00 x 60 PHILLIPS PAN HD MS 8961060		
 M5 - .80 x 16 PHILLIPS PAN HD MS 8958016	 M5 - .80 x 20 PHILLIPS PAN HD MS 8958020	 M5 - .80 x 25 PHILLIPS PAN HD MS 8958025	 M6 - 1.00 CLASS 8 HEX NUT 816100	 M6 ALLOY LOCKWASHER 836	 M6 - 1.00 x 10 PHILLIPS PAN HD MS 8961010	 M6 - 1.00 x 12 PHILLIPS PAN HD MS 8961012	 M6 - 1.00 x 16 PHILLIPS PAN HD MS 8961016
 M4 - .70 x 10 PHILLIPS PAN HD MS 8947010	 M4 - .70 x 12 PHILLIPS PAN HD MS 8947012	 M4 - .70 x 16 PHILLIPS PAN HD MS 8947016	 M4 - .70 x 20 PHILLIPS PAN HD MS 8947020	 M5 - .80 HEX NUT 81580	 M5 LOCKWASHER 835	 M5 - .80 x 10 PHILLIPS PAN HD MS 8958010	 M5 - .80 x 12 PHILLIPS PAN HD MS 8958012
 M3 - .50 CLASS 8 HEX NUT 81350	 M3 ALLOY LOCKWASHER 833	 M3 - .50 x 6 PHILLIPS PAN HD MS 893506	 M3 - .50 x 10 PHILLIPS PAN HD MS 8935010	 M3 - .50 x 16 PHILLIPS PAN HD MS 8935016	 M4 - .70 CLASS 8 HEX NUT 81470	 M4 ALLOY LOCKWASHER 834	 M4 - .70 x 8 PHILLIPS PAN HD MS 894708

Front of Drawer



Fastener Assortments

Metric Machine Screws – Phillips Pan Head Stainless Steel

Full Assortment

Part No. MMSKSS

1425 Pieces (Comes in a PB32 parts bin)

Back of Drawer

25	15	15	10	10	10		
50	25	25	50	50	25	25	25
50	50	50	50	100	100	50	50
100	100	50	50	50	100	100	15

Front of Drawer

Hex Head Cap Screws – 18-8 Stainless Steel, U.S.S., Coarse Thread

Full Assortment

Part No. MARKSS

375 Pieces (Comes in a PB24 parts bin)

Back of Drawer

25	10	10	10	10	10
10	10	10	10	25	25
10	10	25	25	25	10
25	25	25	10	10	10

Front of Drawer



Socket Head Cap Screws – Stainless Steel

Full Assortment

Part No. SCSKSS

800 Pieces (Comes in a PB32 parts bin)

Back of Drawer

 #10-32 x 1-1/2" 18-8 SKT HD CS 78EF112	 #10-32 x 2" 18-8 SKT HD CS 78EF2	 1/4"-20 x 1/2" 18-8 SKT HD CS 78G12	 1/4"-20 x 3/4" 18-8 SKT HD CS 78G34	 1/4"-20 x 1" 18-8 SKT HD CS 78G1	 1/4"-20 x 1-1/4" 18-8 SKT HD CS 78G114	 1/4"-20 x 1-1/2" 18-8 SKT HD CS 78G112	 1/4"-20 x 2" 18-8 SKT HD CS 78G2
 #10-24 x 1-1/4" 18-8 SKT HD CS 78E114	 #10-24 x 1-1/2" 18-8 SKT HD CS 78E112	 #10-24 x 2" 18-8 SKT HD CS 78E2	 #10-32 x 3/8" 18-8 SKT HD CS 78EF38	 #10-32 x 1/2" 18-8 SKT HD CS 78EF12	 #10-32 x 3/4" 18-8 SKT HD CS 78EF34	 #10-32 x 1" 18-8 SKT HD CS 78EF1	 #10-32 x 1-1/4" 18-8 SKT HD CS 78EF114
 #8-32 x 1/2" 18-8 SKT HD CS 78D12	 #8-32 x 5/8" 18-8 SKT HD CS 78D58	 #8-32 x 3/4" 18-8 SKT HD CS 78D34	 #8-32 x 1" 18-8 SKT HD CS 78D1	 #10-24 x 3/8" 18-8 SKT HD CS 78E38	 #10-24 x 1/2" 18-8 SKT HD CS 78E12	 #10-24 x 3/4" 18-8 SKT HD CS 78E34	 #10-24 x 1" 18-8 SKT HD CS 78E1
 #6-32 x 1/4" 18-8 SKT HD CS 78C14	 #6-32 x 3/8" 18-8 SKT HD CS 78C38	 #6-32 x 1/2" 18-8 SKT HD CS 78C12	 #6-32 x 5/8" 18-8 SKT HD CS 78C58	 #6-32 x 3/4" 18-8 SKT HD CS 78C34	 #6-32 x 1" 18-8 SKT HD CS 78C1	 #8-32 x 1/4" 18-8 SKT HD CS 78D14	 #8-32 x 3/8" 18-8 SKT HD CS 78D38

Front of Drawer




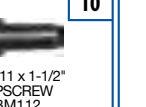
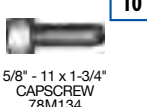


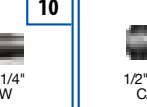

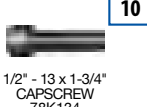




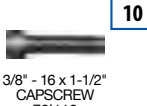


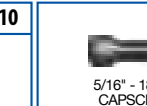
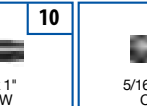
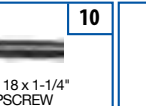

Socket Head Cap Screws – Stainless Steel

Full Assortment

Part No. SCLKSS

210 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 5/8" - 11 x 1" CAPSCREW 78M1	 5/8" - 11 x 1-1/4" CAPSCREW 78M114	 5/8" - 11 x 1-1/2" CAPSCREW 78M112	 5/8" - 11 x 1-3/4" CAPSCREW 78M134	 5/8" - 11 x 2" CAPSCREW 78M2	
 1/2" - 13 x 1" CAPSCREW 78K1	 1/2" - 13 x 1-1/4" CAPSCREW 78K114	 1/2" - 13 x 1-1/2" CAPSCREW 78K112	 1/2" - 13 x 1-3/4" CAPSCREW 78K134	 1/2" - 13 x 2" CAPSCREW 78K2	
 3/8" - 16 x 3/4" CAPSCREW 78I34	 3/8" - 16 x 1" CAPSCREW 78I1	 3/8" - 16 x 1-1/4" CAPSCREW 78I114	 3/8" - 16 x 1-1/2" CAPSCREW 78I112	 3/8" - 16 x 1-3/4" CAPSCREW 78I134	 3/8" - 16 x 2" CAPSCREW 78I2
 5/16" - 18 x 3/4" CAPSCREW 78H34	 5/16" - 18 x 1" CAPSCREW 78H1	 5/16" - 18 x 1-1/4" CAPSCREW 78H114	 5/16" - 18 x 1-1/2" CAPSCREW 78H112	 5/16" - 18 x 2" CAPSCREW 78H2	

Front of Drawer



Fastener Assortments

Socket Set Screws – Stainless Steel

Full Assortment

Part No. SSSKSS

525 Pieces (Comes in a PB24 parts bin)

Back of Drawer

20	20	20	20		
25	25	25	25	25	25
25	25	25	25	25	25
25	25	25	20	25	25

Front of Drawer

Machine Screws – Phillips Pan Head Stainless Steel

Full Assortment

Part No. MSKSS

750 Pieces (Comes in a PB32 parts bin)

Starter Assortment

Part No. MSKSSSA

365 Pieces (Includes a PB32 parts bin)

Back of Drawer

25 15	25 15	25 15	25 10	25 25	25 10		
25 10	25 10	25 10	25 15	25 10	25 10	25 10	25 10
#8 Flat Washer 56D"/> 25 15	25 10	25 10	25 10	#10-24 Hex Nut 50E"/> 25 15	#10 Lock Washer 55E"/> 25 25	#10 Flat Washer 56E"/> 25 15	#10-24 x 1/2\" S/S PH PAN HD M/S 64E12"/> 25 10
#6-32 Hex Nut 50C"/> 25 15	#6 Lock Washer 55C"/> 25 15	#6 Flat Washer 56C"/> 50 15	25 10	25 10	25 10	#6-32 Hex Nut 50D"/> 25 15	#8 Lock Washer 55D"/> 25 15

Front of Drawer



Sheet Metal Screws – Phillips Pan Head, Stainless Steel

Full Assortment Part No. SMPSS 575 Pieces (Comes in a PB24 parts bin)				Starter Assortment Part No. SMPSSA 345 Pieces (Includes a PB24 parts bin)	
Back of Drawer					
#12 x 1-1/2" S/S PH PAN HD SHT MTL SCREW 77F112	1/4" x 3/4" S/S PH PAN HD SHT MTL SCREW 77G34	1/4" x 1" S/S PH PAN HD SHT MTL SCREW 77G1	1/4" x 1-1/4" S/S PH PAN HD SHT MTL SCREW 77G114	1/4" x 1-1/2" S/S PH PAN HD SHT MTL SCREW 77G112	
#10 x 1" S/S PH PAN HD SHT MTL SCREW 77E1	#10 x 1-1/4" S/S PH PAN HD SHT MTL SCREW 77E114	#10 x 1-1/2" S/S PH PAN HD SHT MTL SCREW 77E112	#10 x 2" S/S PH PAN HD SHT MTL SCREW 77E2	#12 x 3/4" S/S PH PAN HD SHT MTL SCREW 77F34	#12 x 1" S/S PH PAN HD SHT MTL SCREW 77F1
#8 x 3/4" S/S PH PAN HD SHT MTL SCREW 77D34	#8 x 1" S/S PH PAN HD SHT MTL SCREW 77D1	#8 x 1-1/4" S/S PH PAN HD SHT MTL SCREW 77D114	#8 x 1-1/2" S/S PH PAN HD SHT MTL SCREW 77D112	#10 x 1/2" S/S PH PAN HD SHT MTL SCREW 77E12	#10 x 3/4" S/S PH PAN HD SHT MTL SCREW 77E34
#6 x 3/8" S/S PH PAN HD SHT MTL SCREW 77C38	#6 x 1/2" S/S PH PAN HD SHT MTL SCREW 77C12	#6 x 3/4" S/S PH PAN HD SHT MTL SCREW 77C34	#6 x 1" S/S PH PAN HD SHT MTL SCREW 77C1	#8 x 3/8" S/S PH PAN HD SHT MTL SCREW 77D38	#8 x 1/2" S/S PH PAN HD SHT MTL SCREW 77D12
Front of Drawer					

Drill Point Screws – Stainless Steel

Full Assortment Part No. SMTEKSS 440 Pieces (Comes in a PB24 parts bin)				Starter Assortment Part No. SMTEKSSA 270 Pieces (Comes in a PB24 parts bin)	
Back of Drawer					
				1/4" x 2" S/S HX WASHER HD TEK SCREW 71G2	1/4" x 3" S/S HX WASHER HD TEK SCREW 71G3
#12 x 1" S/S HX WASHER HD TEK SCREW 71F1	#12 x 1-1/2" S/S HX WASHER HD TEK SCREW 71F112	#12 x 2" S/S HX WASHER HD TEK SCREW 71F2	1/4" x 3/4" S/S HX WASHER HD TEK SCREW 71G34	1/4" x 1" S/S HX WASHER HD TEK SCREW 71G1	1/4" x 1-1/2" S/S HX WASHER HD TEK SCREW 71G112
#8 x 1-1/2" S/S HX WASHER HD TEK SCREW 71D112	#10 x 1/2" S/S HX WASHER HD TEK SCREW 71E12	#10 x 3/4" S/S HX WASHER HD TEK SCREW 71E34	#10 x 1" S/S HX WASHER HD TEK SCREW 71E1	#10 x 1-1/2" S/S HX WASHER HD TEK SCREW 71E112	#12 x 3/4" S/S HX WASHER HD TEK SCREW 71F34
#6 x 3/8" S/S HX WASHER HD TEK SCREW 71C38	#6 x 1/2" S/S HX WASHER HD TEK SCREW 71C12	#6 x 3/4" S/S HX WASHER HD TEK SCREW 71C34	#8 x 1/2" S/S HX WASHER HD TEK SCREW 71D12	#8 x 3/4" S/S HX WASHER HD TEK SCREW 71D34	#8 x 1" S/S HX WASHER HD TEK SCREW 71D1
Front of Drawer					

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Fastener Assortments

Wall Anchors

Full Assortment

Part No. WAK

85 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
	5		5
1-3/8" AOL, USE #6 x 1" SCREW ZIP-IT WALL ANCHOR - NYLON 449NY2		GRIP 1/8" - 13/16" OAL 1-3/4" HOLLOW WALL ANCHOR 447DSL	
	5		5
USE #8 x 1" SCREW ZIP-IT WALL ANCHOR - NYLON 449NY1		GRIP 5/8" - 7/8" OAL 1-3/4" HOLLOW WALL ANCHOR 447DL	
	5		5
USE #8 x 1" SCREW ZIP-IT WALL ANCHOR - METAL 449MZ1		GRIP 1/8"-1/2" OAL 1-1/4" HOLLOW WALL ANCHOR 447DS	
			5
		GRIP 1/16"-1/4" OAL 3/4" HOLLOW WALL ANCHOR 447DXS	
			5
		GRIP 1/8" - 5/8" OAL 2-1/16" HOLLOW WALL ANCHOR 448FS	
			5
		GRIP 1/4" - 1-1/2" OAL 2-1/4" HOLLOW WALL ANCHOR 448DXL	
			5
		GRIP 5/8" - 7/8" OAL 1-5/8" HOLLOW WALL ANCHOR 448DL	
			5
		GRIP 1/8" - 5/8" OAL 2-1/16" HOLLOW WALL ANCHOR 448GS	
			5
		GRIP 1-1/4" - 1-3/4" OAL 3-1/8" HOLLOW WALL ANCHOR 448FXL	
			5
		GRIP 5/8" - 1-3/16" OAL 2-1/2" HOLLOW WALL ANCHOR 448FL	
			5
		GRIP 1-1/4" - 1-3/4" OAL 3-1/8" HOLLOW WALL ANCHOR 448FXL	
			5
		GRIP 1/16" - 1/4" OAL 3/4" HOLLOW WALL ANCHOR 448DXS	
			5
		GRIP 5/8" - 1-3/16" OAL 2-1/2" HOLLOW WALL ANCHOR 448FL	
Front of Drawer			

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E-Clip Retaining Rings

Full Assortment

Part No. ECAK

375 Pieces (Comes in a PB24 parts bin)

Back of Drawer					
	25		25		25
3/4" SHAFT DIA. E-CLIP EC34		7/8" SHAFT DIA. E-CLIP EC78		1" SHAFT DIA. E-CLIP EC10	
	25		25		25
1/4" SHAFT DIA. E-CLIP EC14		5/16" SHAFT DIA. E-CLIP EC516		3/8" SHAFT DIA. E-CLIP EC38	
	25		25		25
1/16" SHAFT DIA. E-CLIP EC116		3/32" SHAFT DIA. E-CLIP EC332		1/8" SHAFT DIA. E-CLIP EC18	
	25		25		25
5/32" SHAFT DIA. E-CLIP EC532		3/16" SHAFT DIA. E-CLIP EC316		7/32" SHAFT DIA. E-CLIP EC732	
	25		25		25
7/16" SHAFT DIA. E-CLIP EC716		1/2" SHAFT DIA. E-CLIP EC12		5/8" SHAFT DIA. E-CLIP EC58	
Front of Drawer					


















Internal Retaining Rings – Small

Full Assortment

Part No. IRSK

270 Pieces (Comes in a PB24 parts bin)






























Back of Drawer					
 10 1-1/2" INTERNAL RETAINING RING IR1012	 10 1-5/8" INTERNAL RETAINING RING IR1058	 10 2" INTERNAL RETAINING RING IR20			
 25 7/8" INTERNAL RETAINING RING IR78	 25 1" INTERNAL RETAINING RING IR10	 10 1-1/8" INTERNAL RETAINING RING IR1018	 10 1-1/4" INTERNAL RETAINING RING IR1014	 10 1-3/8" INTERNAL RETAINING RING IR1038	 10 1-7/16" INTERNAL RETAINING RING IR10716
 25 7/16" INTERNAL RETAINING RING IR716	 25 1/2" INTERNAL RETAINING RING IR12	 25 9/16" INTERNAL RETAINING RING IR916	 25 5/8" INTERNAL RETAINING RING IR58	 25 11/16" INTERNAL RETAINING RING IR1116	 25 3/4" INTERNAL RETAINING RING IR34
Front of Drawer					

Internal Retaining Ring – Large

Full Assortment

Part No. IRLK

470 Pieces (Comes in a PB32 parts bin)

Back of Drawer							
 10 1-3/4" INTERNAL RETAINING RING IR10134	 10 1-13/16" INTERNAL RETAINING RING IR101316	 10 1-7/8" INTERNAL RETAINING RING IR1078	 10 1-15/16" INTERNAL RETAINING RING IR101516	 10 2" INTERNAL RETAINING RING IR20			
 10 1-1/4" INTERNAL RETAINING RING IR1014	 10 1-5/16" INTERNAL RETAINING RING IR10516	 10 1-3/8" INTERNAL RETAINING RING IR1038	 10 1-7/16" INTERNAL RETAINING RING IR10716	 10 1-1/2" INTERNAL RETAINING RING IR1012	 10 1-9/16" INTERNAL RETAINING RING IR10916	 10 1-5/8" INTERNAL RETAINING RING IR1058	 10 1-11/16" INTERNAL RETAINING RING IR101116
 25 3/4" INTERNAL RETAINING RING IR34	 25 13/16" INTERNAL RETAINING RING IR1316	 25 7/8" INTERNAL RETAINING RING IR78	 25 15/16" INTERNAL RETAINING RING IR1516	 10 1" INTERNAL RETAINING RING IR10	 10 1-1/16" INTERNAL RETAINING RING IR10116	 10 1-1/8" INTERNAL RETAINING RING IR1018	 10 1-3/16" INTERNAL RETAINING RING IR10316
 25 1/4" INTERNAL RETAINING RING IR14	 25 5/16" INTERNAL RETAINING RING IR516	 25 3/8" INTERNAL RETAINING RING IR38	 25 7/16" INTERNAL RETAINING RING IR716	 25 1/2" INTERNAL RETAINING RING IR12	 25 9/16" INTERNAL RETAINING RING IR916	 25 5/8" INTERNAL RETAINING RING IR58	 25 11/16" INTERNAL RETAINING RING IR1116
Front of Drawer							



External Retaining Rings – Small

Full Assortment

Part No. ERSK

270 Pieces (Comes in a PB24 parts bin)

Back of Drawer

1-1/2" SHAFT DIA. EXT. RETAINING RING ER1012	1-5/8" SHAFT DIA. EXT. RETAINING RING ER1058	2" SHAFT DIA. EXT. RETAINING RING ER20			
7/8" SHAFT DIA. EXT. RETAINING RING ER78	1" SHAFT DIA. EXT. RETAINING RING ER10	1-1/8" SHAFT DIA. EXT. RETAINING RING ER1018	1-1/4" SHAFT DIA. EXT. RETAINING RING ER1014	1-3/8" SHAFT DIA. EXT. RETAINING RING ER1038	1-7/16" SHAFT DIA. EXT. RETAINING RING ER10716
7/16" SHAFT DIA. EXT. RETAINING RING ER716	1/2" SHAFT DIA. EXT. RETAINING RING ER12	9/16" SHAFT DIA. EXT. RETAINING RING ER916	5/8" SHAFT DIA. EXT. RETAINING RING ER58	11/16" SHAFT DIA. EXT. RETAINING RING ER1116	3/4" SHAFT DIA. EXT. RETAINING RING ER34

Front of Drawer

External Retaining Ring – Large

Full Assortment

Part No. ERLK

420 Pieces (Comes in a PB24 parts bin)

Back of Drawer

1-1/2" SHAFT DIA. EXT. RETAINING RING ER1012	1-9/16" SHAFT DIA. EXT. RETAINING RING ER10916	1-5/8" SHAFT DIA. EXT. RETAINING RING ER1058	1-3/4" SHAFT DIA. EXT. RETAINING RING ER1034	1-7/8" SHAFT DIA. EXT. RETAINING RING ER1078	2" SHAFT DIA. EXT. RETAINING RING ER20
1-1/8" SHAFT DIA. EXT. RETAINING RING ER1018	1-3/16W" SHAFT DIA. EXT. RETAINING RING ER10316	1-1/4" SHAFT DIA. EXT. RETAINING RING ER1014	1-5/16" SHAFT DIA. EXT. RETAINING RING ER10516	1-3/8" SHAFT DIA. EXT. RETAINING RING ER1038	1-7/16" SHAFT DIA. EXT. RETAINING RING ER10716
5/8" SHAFT DIA. EXT. RETAINING RING ER58	11/16" SHAFT DIA. EXT. RETAINING RING ER1116	3/4" SHAFT DIA. EXT. RETAINING RING ER34	13/16" SHAFT DIA. EXT. RETAINING RING ER1316	7/8" SHAFT DIA. EXT. RETAINING RING ER78	1" SHAFT DIA. EXT. RETAINING RING ER10
1/4" SHAFT DIA. EXT. RETAINING RING ER14	5/16" SHAFT DIA. EXT. RETAINING RING ER516	3/8" SHAFT DIA. EXT. RETAINING RING ER38	7/16" SHAFT DIA. EXT. RETAINING RING ER716	1/2" SHAFT DIA. EXT. RETAINING RING ER12	9/16" SHAFT DIA. EXT. RETAINING RING ER916

Front of Drawer

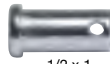

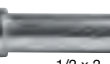



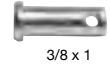




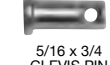



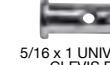









Clevis Pins

Full Assortment

Part No. CLPK

115 Pieces (Comes in a PB24 parts bin)

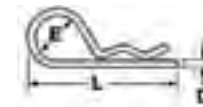
Back of Drawer					
 5 1/2 x 1 CLEVIS PIN 328K1	 5 1/2 x 1-1/2 CLEVIS PIN 328K112	 5 1/2 x 2 CLEVIS PIN 328K2	 5 1/2 x 2-1/2 CLEVIS PIN 328K212	 5 1/2 x 2 UNIVERSAL CLEVIS PIN 328K2U	 5 1/2 x 3 UNIVERSAL CLEVIS PIN 328K3U
 5 3/8 x 1 CLEVIS PIN 328H1	 5 3/8 x 1-1/2 CLEVIS PIN 328H112	 5 3/8 x 2 CLEVIS PIN 328H2	 5 3/8 x 2-1/2 CLEVIS PIN 328H212		 5 3/8 x 2 UNIVERSAL CLEVIS PIN 328H2U
 5 5/16 x 3/4 CLEVIS PIN 328H34	 5 5/16 x 1 CLEVIS PIN 328H1	 5 5/16 x 1 1/2 CLEVIS PIN 328H112	 5 5/16 x 2 CLEVIS PIN 328H2	 5 5/16 x 1 UNIVERSAL CLEVIS PIN 328H1U	 5 5/16 x 2 UNIVERSAL CLEVIS PIN 328H2U
 5 1/4 x 1/2 CLEVIS PIN 328G12	 5 1/4 x 1 CLEVIS PIN 328G1	 5 1/4 x 1-1/2 CLEVIS PIN 328G112	 5 1/4 x 2 CLEVIS PIN 328G2	 5 1/4 x 1 UNIVERSAL CLEVIS PIN 328G1U	 5 1/4 x 2 UNIVERSAL CLEVIS PIN 328G2U
Front of Drawer					

Hitch & Clevis Pins



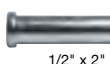

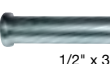





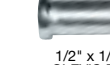











Full Assortment

Part No. HPCPK

221 Pieces (Comes in a PB24 parts bin)



Wire Dia.(D) x Length (L) x Hole Drill Size x Inside Dia. of Eye (E)

Back of Drawer					
 5 1/2" x 1-1/2" CLEVIS PIN 328K112	 5 1/2" x 1-3/4" CLEVIS PIN 328K134	 5 1/2" x 2" CLEVIS PIN 328K2	 5 1/2" x 2-1/2" CLEVIS PIN 328K212	 3 1/2" x 3" CLEVIS PIN 328K3	
 10 1/4" x 1/2" CLEVIS PIN 328G12	 10 1/4" x 1" CLEVIS PIN 328G1	 10 1/4" x 1-1/4" CLEVIS PIN 328G114	 10 1/4" x 1-1/2" CLEVIS PIN 328G112	 5 1/2" x 1" CLEVIS PIN 328K1	 5 1/2" x 1/4" CLEVIS PIN 328K114
 10 .125" x 15/16" x 9/64" x 7/16" HITCH PIN 329X216	 10 .125" x 2-9/16" x 9/64" x 9/16" HITCH PIN 329X211	 5 .148" x 3-5/16" x 5/32" x 3/4" HITCH PIN 329X209	 5 .177" x 3-3/4" x 3/16" x 15/16" HITCH PIN 329X208	 20 .090" x 1-3/16" x 3/32" x 1/4" HITCH PIN 329X213	
 10 .125" x 2-1/2" x 9/64" x 5/8" HITCH PIN 329X227	 10 .148" x 2-5/16" x 5/32" x 3/4" HITCH PIN 329X210	 10 .093" x 2" x 6/64" x 5/8" HITCH PIN 329X228	 10 .093" x 2-1/2" x 7/64" x 9/16" HITCH PIN 329X214	 30 .054" x 3/4" x 1/16" x 1/8" HITCH PIN 329X236	 30 .042" x 1" x 3/64" x 1/4" HITCH PIN 329X223
Front of Drawer					

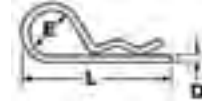


Fastener Assortments

Hitch Pins







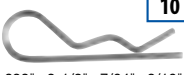





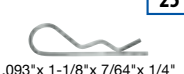
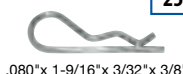
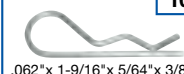

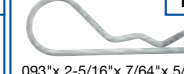
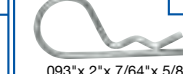
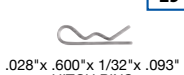
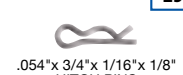
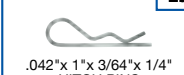
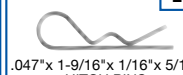
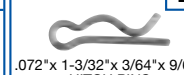
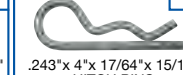
Full Assortment
Part No. HPK

340 Pieces (Comes in a PB24 parts bin)



Wire Dia.(D) x Length (L) x Hole Drill Size x Inside Dia. of Eye (E)

Back of Drawer

 10 .148" x 2-5/16" x 5/32" x 3/4" HITCH PINS 329X210	 10 .148" x 3-5/16" x 5/32" x 3/4" HITCH PINS 329X209	 5 .177" x 3-3/4" x 3/16" x 15/16" HITCH PINS 329X208	 5 .177" x 3-1/2" x 3/16" x 15/16" HITCH PINS 329X229	 25 .090" x 1-3/16" x 3/32" x 1/4" HITCH PINS 329X213	 5 .310" x 4-1/16" x 21/64" x 7/8" HITCH PINS 329X220
 10 .093" x 2-1/2" x 7/64" x 9/16" HITCH PINS 329X214	 10 .152" x 2-9/16" x 9/64" x 1/2" HITCH PINS 329X215	 10 .125" x 1-15/16" x 9/64" x 7/16" HITCH PINS 329X216	 10 .125" x 2-9/16" x 9/64" x 9/16" HITCH PINS 329X211	 10 .125" x 2-1/2" x 9/64" x 5/6" HITCH PINS 329X227	 10 .125" x 3-1/8" x 9/64" x 1" HITCH PINS 329X202
 25 .093" x 1-1/8" x 7/64" x 1/4" HITCH PINS 329X233	 25 .080" x 1-9/16" x 3/32" x 3/8" HITCH PINS 329X217	 10 .062" x 1-9/16" x 5/64" x 3/8" HITCH PINS 329X218	 10 .093" x 1-5/8" x 7/64" x 3/8" HITCH PINS 329X203	 10 .093" x 2-5/16" x 7/64" x 5/8" HITCH PINS 329X207	 10 .093" x 2" x 7/64" x 5/8" HITCH PINS 329X228
 25 .028" x .600" x 1/32" x .093" HITCH PINS 329X231	 25 .054" x 3/4" x 1/16" x 1/8" HITCH PINS 329X236	 25 .042" x 1" x 3/64" x 1/4" HITCH PINS 329X223	 25 .047" x 1-9/16" x 1/16" x 5/16" HITCH PINS 329X224	 25 .072" x 1-3/32" x 3/64" x 9/64" HITCH PINS 329X225	 5 .243" x 4" x 17/64" x 15/16" HITCH PINS 329X219

Front of Drawer

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Cotter Pins – Chisel Point



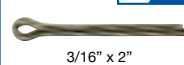
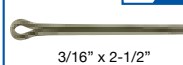













Full Assortment
Part No. CPK

750 Pieces (Comes in a PB24 parts bin)

Starter Assortment
Part No. CPKSA

385 Pieces (Includes a PB24 parts bin)

Back of Drawer

 25 / 15 3/16" x 1" COTTER PIN 33E1	 25 / 15 3/16" x 1-1/2" COTTER PIN 33E112	 50 / 25 3/16" x 2" COTTER PIN 33E2	 25 / 15 3/16" x 2-1/2" COTTER PIN 33E212	 25 / 15 1/4" x 2" COTTER PIN 33G2	
 50 / 25 1/8" x 2" COTTER PIN 33C2	 50 / 25 1/8" x 2-1/2" COTTER PIN 33C212	 50 / 25 5/32" x 1" COTTER PIN 33D1	 50 / 25 5/32" x 1" COTTER PIN 33D112	 50 / 25 5/32" x 2" COTTER PIN 33D2	 50 / 25 5/32" x 2-1/2" COTTER PIN 33D212
 50 / 25 1/16" x 1" COTTER PIN 33A1	 50 / 25 3/32" x 1" COTTER PIN 33B1	 50 / 25 3/32" x 1-1/2" COTTER PIN 33B112	 50 / 25 3/32" x 2" COTTER PIN 33B2	 50 / 25 1/8" x 1" COTTER PIN 33C1	 50 / 25 1/8" x 1-1/2" COTTER PIN 33C112

Front of Drawer



Cotter Pins – Stainless Steel

Full Assortment

Part No. CPKSS

725 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. CPKSSSA

350 Pieces (Includes a PB24 parts bin)

Back of Drawer					
25 / 10 3/16" x 1" COTTER PIN - STAINLESS 73E1	25 / 10 3/16" x 1-1/2" COTTER PIN - STAINLESS 73E112	25 / 10 3/16" x 2" COTTER PIN - STAINLESS 73E2	25 / 10 3/16" x 1-1/2" COTTER PIN - STAINLESS 73E212	25 / 10 1/4" x 2" COTTER PIN - STAINLESS 73G2	
50 / 25 1/8" x 2" COTTER PIN - STAINLESS 73C2	50 / 25 1/8" x 2-1/2" COTTER PIN - STAINLESS 73C212	50 / 25 5/32" x 1" COTTER PIN - STAINLESS 73D1	50 / 25 5/32" x 1-1/2" COTTER PIN - STAINLESS 73D112	50 / 25 5/32" x 2" COTTER PIN - STAINLESS 73D2	50 / 25 5/32" x 2-1/2" COTTER PIN - STAINLESS 73D212
50 / 25 1/16" x 1" COTTER PIN - STAINLESS 73A1	50 / 25 3/32" x 1" COTTER PIN - STAINLESS 73B1	50 / 25 3/32" x 1-1/2" COTTER PIN - STAINLESS 73B112	50 / 25 3/32" x 2" COTTER PIN - STAINLESS 73B2	50 / 25 1/8" x 1" COTTER PIN - STAINLESS 73C1	50 / 25 1/8" x 1-1/2" COTTER PIN - STAINLESS 73C112
Front of Drawer					

Aluminum Blind Rivets

Full Assortment

Part No. PRK

576 Pieces (Comes in a PB21L parts bin)

Starter Assortment

Part No. PRKSA

301 Pieces (Includes a PB21L parts bin)

Back of Drawer					 1 / 0 PULL RIVET HAND TOOL AA44
50 / 25 DIA 3/16" (.187) GRIP .376 - .500 DRILL #11 AA68R	25 / 25 DIA 3/16" (.187) LARGE FLANGE DRILL #11 GRIP .376 - .500 AA68L				
50 / 25 DIA 5/32" (.156) GRIP .126 - .250 DRILL #20 AA54R	50 / 25 DIA 5/32" (.156) GRIP .251 - .375 DRILL #20 AA56R	50 / 25 DIA 5/32" (.156) GRIP .367 - .500 DRILL #20 AA58R	50 / 25 DIA 3/16" (.187) GRIP .126 - .250 DRILL #11 AA64R	50 / 25 DIA 3/16" (.187) GRIP .251 - .375 DRILL #11 AA66R	
50 / 25 DIA 3/32" (.094) GRIP .063 - .125 DRILL #41 AA32R	50 / 25 DIA 3/32" (.094) GRIP .126 - .250 DRILL #41 AA34R	50 / 25 DIA 1/8" (.125) GRIP .063 - .125 DRILL #30 AA42R	50 / 25 DIA 1/8" (.125) GRIP .188 - .250 DRILL #30 AA44R	50 / 25 DIA 1/8" (.125) GRIP .312 - .375 DRILL #30 AA46R	
Front of Drawer					



Fastener Assortments














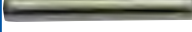





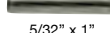
Steel Roll Pins

Full Assortment

Part No. RPK

160 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 3/8" x 2" ROLL PIN 43I2	 1/2" x 1-1/2" ROLL PIN 43K112				
 5/16" x 1" ROLL PIN 43H1	 5/16" x 1 3/4" ROLL PIN 43H134	 5/16" x 1-3/4" ROLL PIN 43H2	 3/8" x 1" ROLL PIN 43I1	 3/8" x 1-1/4" ROLL PIN 43I114	 3/8" x 1-1/2" ROLL PIN 43I112
 3/16" x 1" ROLL PIN 43F1	 3/16" x 1-1/4" ROLL PIN 43F114	 1/4" x 1" ROLL PIN 43G1	 1/4" x 1-1/4" ROLL PIN 43G114	 1/4" x 1-1/2" ROLL PIN 43G112	 1/4" x 2" ROLL PIN 43G2
 3/32" x 1" ROLL PIN 43C1	 1/8" x 1/2" ROLL PIN 43D12	 1/8" x 1/2" ROLL PIN 43D34	 1/8" x 1" ROLL PIN 43D1	 5/32" x 3/4" ROLL PIN 43E34	 5/32" x 1" ROLL PIN 43E1

Front of Drawer

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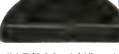
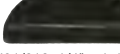

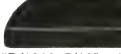
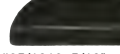

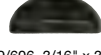
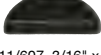

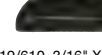
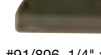












Woodruff Keys

Full Assortment

Part No. WKK

166 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 #A/807 1/4" x 7/8" WOODRUFF KEY 327G78	 #15/808 1/4" x 1" WOODRUFF KEY 327G1	 #21/810 1/4" x 1-1/4" WOODRUFF KEY 327G114	 #B/1008 5/16" x 1" WOODRUFF KEY 327H1	 #D/1010 5/16" x 1-1/4" WOODRUFF KEY 327H114	 #25/1012 5/16" x 1-1/2" WOODRUFF KEY 327H112
 #61/506 3/16" x 5/8" WOODRUFF KEY 327E58	 #9/606 3/16" x 3/4" WOODRUFF KEY 327E34	 #11/607 3/16" x 7/8" WOODRUFF KEY 327E78	 #13/608 3/16" x 1" WOODRUFF KEY 327E1	 #19/610 3/16" x 1-1/4" WOODRUFF KEY 327E114	 #91/806 1/4" x 3/4" WOODRUFF KEY 327G34
 #3/404 1/8" x 1/2" WOODRUFF KEY 327C12	 #5/405 1/8" x 5/8" WOODRUFF KEY 327C58	 #7/406 1/8" x 3/4" WOODRUFF KEY 327C34	 #6/505 5/32" x 5/8" WOODRUFF KEY 327D58	 #8/506 5/32" x 3/4" WOODRUFF KEY 327D34	 #61/506 3/16" x 5/8" WOODRUFF KEY 327D78
 #211/203 1/16" x 3/8" WOODRUFF KEY 327A38	 #1/204 1/16" x 1/2" WOODRUFF KEY 327A12	 #212/303 3/32" x 3/8" WOODRUFF KEY 327B38	 #2/304 3/32" x 1/2" WOODRUFF KEY 327B12	 #4/305 3/32" x 5/8" WOODRUFF KEY 327B58	 #213/403 1/8" x 3/8" WOODRUFF KEY 327C38

Front of Drawer







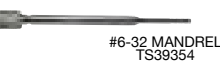

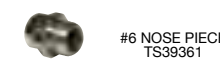
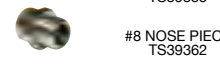
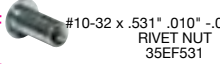
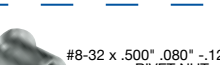
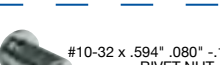
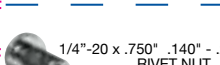



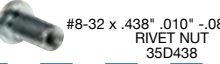
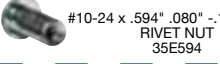
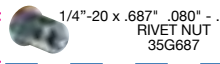


Klik Rivet Nuts

Full Assortment

Part No. KRNK

244 Pieces (Comes in a PBADJ parts bin)




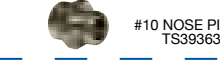






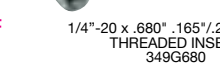
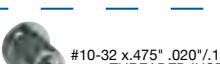
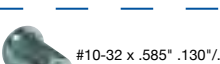
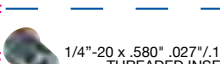



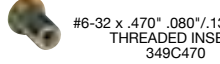
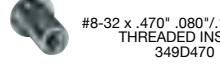
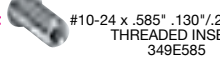
Back of Drawer			Front of Drawer		
 #10-24 MANDREL TS39356 1	 #10-32 MANDREL TS39357 1ea.	 1/4"-20 MANDREL TS39358 1ea.	 #10 NOSE PIECE TS39363 1ea.	 1/4" NOSE PIECE TS39379 1	 RIVET NUT TOOL TS39300 1
 #6-32 MANDREL TS39354 1ea.	 #8-32 MANDREL TS39355 1ea.				
 #6 NOSE PIECE TS39361 25	 #8 NOSE PIECE TS39362 25	 #10-32 x .531" .010"-.080" GRIP RIVET NUT 35EF531 20			
 #8-32 x .500" .080"-.120" GRIP RIVET NUT 35D500 25	 #10-32 x .594" .080"-.130" GRIP RIVET NUT 35EF594 25	 1/4"-20 x .750" .140"-.200" GRIP RIVET NUT 35G750 20			
 #8-32 x .438" .010"-.080" GRIP RIVET NUT 35D438 25	 #10-24 x .594" .080"-.130" GRIP RIVET NUT 35E594 25	 1/4"-20 x .687" .080"-.140" GRIP RIVET NUT 35G687 20			
 #8-32 x .438" .010"-.080" GRIP RIVET NUT 35C438 25	 #10-24 x .531" .010"-.080" GRIP RIVET NUT 35E531 25	 1/4"-20 x .625" .010"-.200" GRIP RIVET NUT 35G625 20			

Knurled Steel Threaded Inserts

Full Assortment

Part No. NKRK

190 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			Front of Drawer		
 #10-24 MANDREL TS39356 1	 #10-32 MANDREL TS39357 1ea.	 1/4"-20 MANDREL TS39358 1ea.	 #10 NOSE PIECE TS39363 1ea.	 1/4" NOSE PIECE TS39379 20	 RIVET NUT TOOL TS39300 1
 #6-32 MANDREL TS39354 1ea.	 #8-32 MANDREL TS39355 1ea.				
 #6 NOSE PIECE TS39361 20	 #8 NOSE PIECE TS39362 20	 1/4"-20 x .680" .165"/.260" GRIP THREADED INSERT 349G680 20			
 #10-32 x .475" .020"/.130" GRIP THREADED INSERT 349EF475 10	 #10-32 x .585" .130"/.225" GRIP THREADED INSERT 349EF585 20	 1/4"-20 x .580" .027"/.165" GRIP THREADED INSERT 349G580 20			
 #6-32 x .470" .080"/.130" GRIP THREADED INSERT 349C470 10	 #8-32 x .470" .080"/.130" GRIP THREADED INSERT 349D470 20	 #10-24 x .585" .130"/.225" GRIP THREADED INSERT 349E585 20			
 #6-32 x .420" .020"/.080" GRIP THREADED INSERT 349C420 10	 #8-32 x .420" .020"/.080" GRIP THREADED INSERT 349D420 20	 #10-24 x .475" .020"/.130" GRIP THREADED INSERT 349E475 20			



Fastener Assortments

Compression & Extension Springs















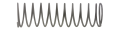



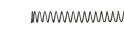





Full Assortment

Part No. SPCEK1

240 Pieces (Comes in a PB24 parts bin)

O.D. x Overall Length x Wire Dia.

Back of Drawer

 3/8" x 2" x .035" EXPANSION SPRING SPE2201	 3/4" x 2-3/16" x .105" EXPANSION SPRING SPE3001	 7/32" x 3-9/16" x .023" EXPANSION SPRING SPE1503	 3/8" x 3" x .041" EXPANSION SPRING SPE2202	 7/16" x 11/16" x .047" EXPANSION SPRING SPE2402	 1/2" x 4-1/2" x .062" EXPANSION SPRING SPE2601
 3/16" x 1-13/16" x .032" EXPANSION SPRING SPE1401	 1/4" x 2-1/2" x .016" EXPANSION SPRING SPE1604	 9/32" x 2-1/2" x .020" EXPANSION SPRING SPE1802	 5/16" x 1-1/8" x .041" EXPANSION SPRING SPE2001	 5/16" x 1-1/2" x .020" EXPANSION SPRING SPE2002	 11/32" x 2" x .035" EXPANSION SPRING SPE2103
 5/16" x 1-1/4" x .041" COMPRESSION SPRING SPC2001	 5/16" x 2" x .047" COMPRESSION SPRING SPC2006	 3/8" x 1-1/4" x .026" COMPRESSION SPRING SPC2201	 3/8" x 1-1/2" x .026" COMPRESSION SPRING SPC2202	 1/8" x 1-7/8" x .016" EXPANSION SPRING SPE1101	 5/32" x 1-7/8" x .020" EXPANSION SPRING SPE1301
 5/32" x 1-3/8" x .026" COMPRESSION SPRING SPC1301	 3/16" x 1" x .013" COMPRESSION SPRING SPC1401	 3/16" x 1-5/16" x .023" COMPRESSION SPRING SPC1404	 3/16" x 1-3/8" x .028" COMPRESSION SPRING SPC1405	 1/4" x 1-7/8" x .023" COMPRESSION SPRING SPC1601	 1/4" x 1-3/8" x .020" COMPRESSION SPRING SPC1602

Front of Drawer

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Compression Springs


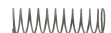
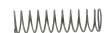




















Full Assortment

Part No. CSK

205 Pieces (Comes in a PB24 parts bin)

O.D. x Overall Length x Wire Dia.

Back of Drawer

 7/16" x 2-1/4" x 19GA/.041" COMPRESSION SPRING SPC2403	 15/32" x 2-3/8" x 14GA/.080" COMPRESSION SPRING SPC2501	 1/2" x 2" x 18GA/.047" COMPRESSION SPRING SPC2601	 1/2" x 2-1/2" x 16GA/.062" COMPRESSION SPRING SPC2602	 1/2" x 3" x 18GA/.047" COMPRESSION SPRING SPC2604	
 3/8" x 1-1/4" x 23GA/.026" COMPRESSION SPRING SPC2201	 3/8" x 1-1/2" x 23GA/.026" COMPRESSION SPRING SPC2202	 3/8" x 1-15/16" x 19GA/.041" COMPRESSION SPRING SPC2203	 3/8" x 3" x 18GA/.047" COMPRESSION SPRING SPC2204	 13/32" x 1" x 18GA/.047" COMPRESSION SPRING SPC2301	 13/32" x 1-3/16" x 18GA/.047" COMPRESSION SPRING SPC2302
 7/32" x 1-3/8" x 25GA/.020" COMPRESSION SPRING SPC1502	 7/32" x 1-3/8" x 22GA/.028" COMPRESSION SPRING SPC1504	 1/4" x 1-7/8" x 24GA/.023" COMPRESSION SPRING SPC1601	 1/4" x 1-3/8" x 25GA/.020" COMPRESSION SPRING SPC1602	 5/16" x 1-1/4" x 19GA/.041" COMPRESSION SPRING SPC2001	 5/16" x 2" x 18GA/.047" COMPRESSION SPRING SPC2006
 1/8" x 1-3/8" x 30GA/.014" COMPRESSION SPRING SPC1101	 5/32" x 1-3/8" x 28GA/.016" COMPRESSION SPRING SPC1301	 3/16" x 1" x 31GA/.013" COMPRESSION SPRING SPC1401	 3/16" x 1-5/16" x 24GA/.023" COMPRESSION SPRING SPC1404	 3/16" x 1-3/8" x 22GA/.028" COMPRESSION SPRING SPC1405	 7/32" x 1-3/4" x 28GA/.016" COMPRESSION SPRING SPC1501

Front of Drawer



Extension Springs




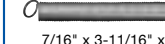


















Full Assortment

Part No. ESK

110 Pieces (Comes in a PB24 parts bin)

O.D. x Overall Length x Wire Dia.

Back of Drawer

 3/8" x 2" x 20GA/.035" EXTENSION SPRING SPE2201	 3/8" x 3" x 19GA/.041" EXTENSION SPRING SPE2202	 7/16" x 2-3/4" x 20GA/.035" EXTENSION SPRING SPE2401	 7/16" x 3-11/16" x 18GA/.047" EXTENSION SPRING SPE2402		
 9/32" x 2-7/16" x 20GA/.035" EXTENSION SPRING SPE1803	 5/16" x 1-1/8" x 19GA/.041" EXTENSION SPRING SPE2001	 5/16" x 1-1/2" x 25GA/.020" EXTENSION SPRING SPE2002	 11/32" x 1-7/8" x 23GA/.026" EXTENSION SPRING SPE2101	 11/32" x 1-1/2" x 22GA/.029" EXTENSION SPRING SPE2102	 11/32" x 2" x 20GA/.035" EXTENSION SPRING SPE2103
 7/32" x 3-9/16" x 24GA/.023" EXTENSION SPRING SPE1503	 5/32" x 1-7/8" x .020" EXTENSION SPRING SPE1602	 1/4" x 2-1/2" x 28GA/.016" EXTENSION SPRING SPE1604	 1/4" x 3" x 22GA/.028" EXTENSION SPRING SPE1605	 9/32" x 1-7/8" x 23GA/.026" EXTENSION SPRING SPE1801	 9/32" x 2-1/2" x 25GA/.020" EXTENSION SPRING SPE1802
 1/8" x 1-7/8" x 28GA/.016" EXTENSION SPRING SPE1101	 5/32" x 1-7/8" x 25GA/.020" EXTENSION SPRING SPE1301	 3/16" x 1-13/16" x 21GA/.032" EXTENSION SPRING SPE1401	 3/16" x 2" x 25GA/.020" EXTENSION SPRING SPE1402	 7/32" x 1-7/8" x 24GA/.023" EXTENSION SPRING SPE1501	 7/32" x 2" x 21GA/.032" EXTENSION SPRING SPE1502

Front of Drawer





Chains & Straps

Wire Rope

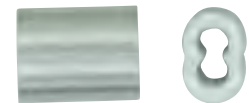


Wire Rope Galvanized		
Diameter	Length	Part No.
1/16"	50'	WRG1
3/32"	50'	WRG1.5
1/8"	50'	WRG2
3/16"	50'	WRG3
1/4"	50'	WRG4

Wire Rope Vinyl Coated, Galvanized		
Diameter	Length	Part No.
1/16"	50'	WRG1C
3/32"	50'	WRG1.5C
1/8"	50'	WRG2C
3/16"	50'	WRG3C
1/4"	50'	WRG4C



Wire Rope Cutter
Size: 1/16 - 1/4 Dia.
Part No: CC1WR



Clip	
Size	Part No.
1/16"	WRC1
3/32"	WRC1.5
1/8"	WRC2
3/16"	WRC3
1/4"	-

Thimble	
Size	Part No.
1/16"	WRT1
3/32"	WRT1.5
1/8"	WRT2
3/16"	WRT3
1/4"	WRT4

End Stop	
Size	Part No.
1/16"	WRES1
3/32"	WRES1.5
1/8"	WRES2
3/16"	WRES3
1/4"	WRES4

Swage Duplex Sleeve	
Size	Part No.
1/16"	WRS1
3/32"	WRS1.5
1/8"	WRS2
3/16"	WRS3
1/4"	WRS4

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Swage Sleeve Crimper
Size: 1/16 - 3/16 Dia.
Part No: RT1WR



Swage Sleeve Crimper
Size: 1/4 Dia.
Part No: RT4WR

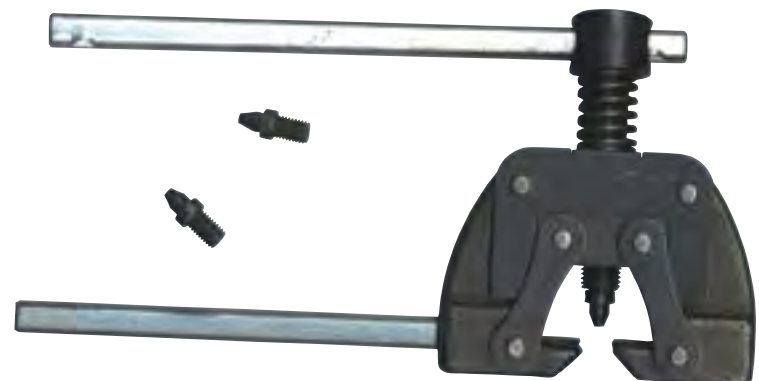




Chain Repair Links			
Description	ASA Chain No.	Pitch	Part No.
Connecting Link, Single Standard	35	3/8	CRL35CL
Connecting Link, Single Standard	40	1/2	CRL40CL
Connecting Link, Single Standard	41	1/2	CRL41CL
Connecting Link, Single Standard	50	5/8	CRL50CL
Connecting Link, Single Standard	60	3/4	CRL60CL
Connecting Link, Single Standard	80	1	CRL80CL
Connecting Link, Single Standard	100	1-1/4	CRL100CL
Connecting Link, Heavy-Duty Single Standard	60H	3/4	CRL60HCL
Connecting Link, Double Pitch	A 2040	1	CRL2040CL
Connecting Link, Double Pitch	A 2050	1-1/4	CRL2050CL
Connecting Link, Double Pitch	A 2060	1-1/2	CRL2060CL
Offset, Single Standard	35	3/8	CRL35OL
Offset, Single Standard	40	1/2	CRL40OL
Offset, Single Standard	41	1/2	CRL41OL
Offset, Single Standard	50	5/8	CRL50OL
Offset, Single Standard	60	3/4	CRL60OL
Offset, Single Standard	80	1	CRL80OL
Offset, Single Standard	100	1-1/4	CRL100OL
Offset, Heavy-Duty Single Standard	60H	3/4	CRL60HOL
Offset, Double Pitch	A 2040	1	CRL2040OL
Offset, Double Pitch	A 2050	1-1/4	CRL2050OL
Offset, Double Pitch	A 2060	1-1/2	CRL2060OL



Roller Chain Tools	
Description	Part No.
For 35/50 Roller Chain	RCT3550
For 60/100 Roller Chain	RCT60100



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Chains & Straps



Cam & Ratchet Vinyl S Hook



Cam & Ratchet Hook & Keeper

Cam and Ratchet-Style Load Hugger

Width	Length	Strength	Buckle	Hook	Part No.
1	15	700	Ratchet	Vinyl S	LPCR003
2	27	10,000	Ratchet	Flat	LPCR013

Tarp Straps with S-Hooks

Length	Part No.
9	STP0001
15	STP0002
21	STP0003
31	STP0004
41	STP0005



Mechanics Wire

A soft annealed bare wire for fastening, securing and many other purposes. 16 and 18 AWG.

Description	Part No.
16 AWG 2 lb	MW16
18 AWG 2 lb	MW18





CABLE TIES



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Cable Ties & Accessories

PANDUIT®

Panduit® Cable Ties are U.L. recognized under the component program via the original manufacturer for use at temperatures not exceeding 85°C (185°F) [FILE NO. E76766(N)]. They also meet U.L. 94V-2 flammability classification and U.L. 94V-0 fire retardant specification (natural only). All black cable ties are weather-resistant, UV-stabilized nylon.

Panduit Cable Ties and Marker Ties with Mil Std. # meet all of the testing requirements of Aerospace Standard SAE-AS23190A (formerly MIL-S-23190E) and dimensional requirements of Aerospace Standards SAE-AS33671 (formerly MS3367) and SAE-AS33681 (formerly MS3368). Black cable ties also meet Weather Resistant per ASTM D 4066-94B.

Nylon						
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil Standard / SAE Standard
3.9	.098 (3/32)	.87	18	Natural	CT4	MS3367-4 / AS33671-4
					CT43*	
				Black	CT4B	
					CT4B3*	
5.6	.098 (3/32)	1.25	18	Natural	CT5	
					CT53*	
				Black	CT5B	
					CT5B3*	
5.6	.142 (9/64)	1.38	40	Natural	CT6	MS3367-5 / AS33671-5
					CT63*	
				Black	CT6B	
					CT6B3*	
7.4	.190 (3/16)	1.88	50	Natural	CT7	MS3367-1 / AS33671-1
					CT73*	
				Black	CT7B	
					CT7B3*	
8	.098 (3/32)	2	18	Natural	CT8	
				Black	CT8B	
8.1	.300 (5/16)	2	120	Natural	CT778	
				Black	CT778B	
11.5	.190 (3/16)	3	50	Natural	CT11	MS3367-7 / AS33671-7
				Black	CT11B	
14.5	.190 (3/16)	4	50	Natural	CT14	MS3367-2 / AS33671-2
				Black	CT14B	
14.5	.300 (5/16)	4	120	Natural	CT15	MS3367-3 / AS33671-3
				Black	CT15B	
20.1	.5	5	250	Black	CT20B	
20.9	.350 (5/16)	6	175	Natural	CT21	
				Black	CT21B	
30.6	.350 (5/16)	9	175	Natural	CT28	MS3367-6 / AS33671-6
				Black	CT28B	
43.3	.350	13	175	Black	CT43LB	



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*Packs of 500.



PANDUIT®

Nylon - Colors						
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil Standard / SAE Standard
3.9	.098 (3/32)	.87	18	Blue	CT4BE	MS3367-4 / AS33671-4
				Brown	CT4BN	
				Green	CT4GN	
				Gray	CT4GY	
				Orange	CT4OE	
				Purple	CT4PE	
				Red	CT4RD	
				White	CT4WE	
				Yellow	CT4YW	
7.4	.190 (3/16)	1.88	50	Blue	CT7BE	MS3367-1 / AS33671-1
				Brown	CT7BN	
				Green	CT7GN	
				Gray	CT7GY	
				Orange	CT7OE	
				Purple	CT7PE	
				Red	CT7RD	
				White	CT7WE	
				Yellow	CT7YW	
11.5	.190 (3/16)	3	50	Blue	CT4BE	MS3367-7 / AS33671-7
				Brown	CT11BN	
				Green	CT11GN	
				Gray	CT11GY	
				Orange	CT11OE	
				Purple	CT11PE	
				Red	CT11RD	
				White	CT11WE	
				Yellow	CT11YW	
14.5	.190 (3/16)	4	50	Blue	CT14BE	MS3367-2 / AS33671-2
				Brown	CT14BN	
				Green	CT14GN	
				Gray	CT14GY	
				Orange	CT14OE	
				Purple	CT14PE	
				Red	CT14RD	
				White	CT14WE	
				Yellow	CT14YW	



Fluorescent Cable Ties

- Great for hard to see areas
- Hard to reach maintenance tagging
- Safety-related tagging



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
3.9	0.098 (3/32)	0.87	18	Orange	CT4FOE
				Yellow	CT4FYW
				Green	CT4FGN
				Pink	CT4FPK
7.4	0.19 (3/16)	1.88	50	Orange	CT7FOE
				Yellow	CT7FYW
				Green	CT7FGN
				Pink	CT7FPK

Ladder Style



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
7	9/64	1-3/4	40	Natural	CT7D
11		3			CT11D

Cable Tie Application Tool

Part No: GS2B

- Adjustable Tension
- **Mil-T-81306A**
- For .098 –.190 inch ties



GS2B

Ergonomic Cable Tie Application Tool

Part No: GS2C

With pre-set tension adjustments for cable ties 3/32–3/16 width. **Mil. Std. MS90387-1**



GS2C

Thomas & Betts Cable Tie Tension Tool

Part No: WT1

With pre-set tension for cable ties 3/32–3/16 width.



WT1



PANDUIT®

Screw Mount						
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Screw Hole Diameter	Color	Part No.
7.9	.190 (3/16)	1.84	50	#10	Natural	CT8R
					Black	CT8RB
15	.190 (3/16)	4	50	#10	Natural	CT16R
15.1	.300 (5/16)	4	150	1/4"	Natural	CT15R
					Black	CT15RB



Thomas & Betts

L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Screw Hole Diameter (in)	Color	Part No.
13.9	.301 (5/16)	3.5	120	1/4	Natural	CTB14R
					Black	CTB14RB



PANDUIT®

Double Loop					
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
14.8	.190 (3/16)	4.1	50	Natural	CT14DL
14.4	.300 (5/16)	3.6	120	Natural	CT15DL
				Black	CT15DLB



PANDUIT®

Marker Style						
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil Standard / SAE Standard
7.4	.185 (3/16)	1.75	50	Natural	CT7M	MS3368-1-9A / AS33681-1-9A

Thomas & Betts

L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil-Standard / SAE Standard
4	.093 (3/32)	.625	18	Natural	CTB4ID	MS33681-1-9A/AS33681-1-9A
8.4		2			CTB8ID	





Cable Ties & Accessories



Polypropylene Metal Detectable Cable Ties & Mounts

For use in processing and packaging areas where aggressive acid and alkaline chemicals are used to clean equipment.



- Excellent chemical resistance for pharmaceutical & food processing
- Max. Temp. 239°F (115°C) continuous
- Meet food, beverage & pharmaceutical safety standards
- Metal impregnated material are easily identifiable by metal detectors & x-ray equipment
- Distinctive dark blue color of ties is an industry standard & aids in visual detections

Cable Ties					
Cross Section	L (in)	W (in)	Max. Bundle Diam.	Tensile Strength (lb)	Part No.
Miniature	3.9	0.098	0.87	15	CT4MDP
Intermediate	8.0	0.135	2	24	CT8MDP
Standard	7.3	0.19	1.85	30	CT7MDP
	11.5	0.19	3		CT11MDP
	14.4	0.19	4		CT14MDP
Lt.-Heavy Duty	11.1	0.3	3	60	CT12MDP
	14.4	0.3	4		CT15MDP



Cable Tie Mounts					
Use with Cable Ties	W (in)	L (in)	H (in)	Mount with Screw Size	Part No.
Min. Int. Std.	0.63	0.422	0.275	#8 (M4)	CTM7
Std., Lt.-H.D.	0.867	0.614	0.373	#8 (M4)	CTM8
				#10 (M5)	CTM9





Clamp Ties **HellermannTyton**

The Clamp tie has triangular shaped tabs extending beneath the head, allowing for optimal surface contact and complete circumferential compression to 360 degrees. The clamps are recommended for soft rubber hose applications including fuel, water and air vacuum lines.



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
4	(3/32)	.51	20	Black	CTC4B
8	(3/16)	1.8	60	Black	CTC8B

Low-Profile **PANDUIT**®

- Prevents protrusion of cut-off tie and reduces overall bundle size
- Fully rounded edges so no sharp edges come in contact with cable jacket
- Parallel-entry design that threads like a belt (180° entry)
- “Finger grip” shaped head assures positive grip during threading of tie



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil-Standard / SAE Standard
8	.190 (3/16)	1.88	50	Natural	CTL8	MS3367-23 / AS33671-23
				Black	CTL8B	
11		3		Natural	CTL11	MS3367-29 / AS33671-29
				Black	CTL11B	
14		4		Natural	CTL14	MS3367-24 / AS33671-24
				Black	CTL14B	

Releasable **PANDUIT**®

- Extended tab permits easy release and re-use
- Useful where changes are anticipated during development, production, or servicing
- To release, grasp the head of the cable tie, deflect release tab, and pull away from the bundle



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
7.4	.190 (3/16)	1.88	50	Natural	CTR7
11.5				3	Black
		14.5			4
Black				CTR11B	
				Natural	CTR14
				Black	CTR14B



Cable Ties & Accessories

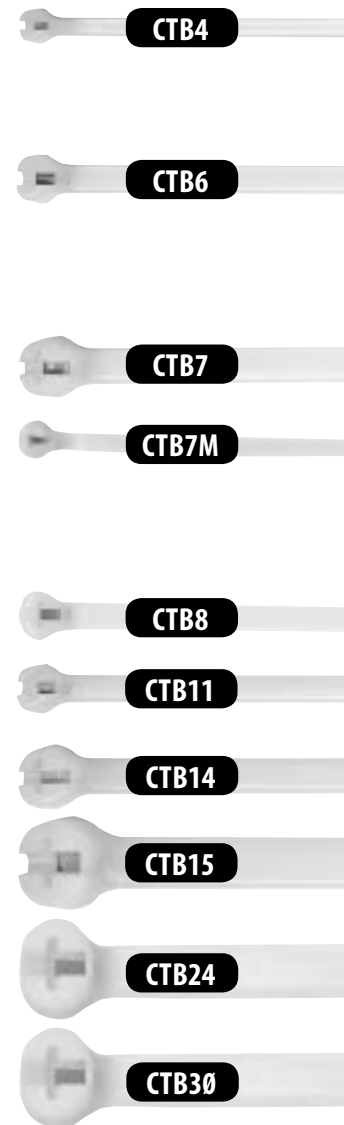
Thomas & Betts

High Performance

Hi-Line's CTB Cable Ties are manufactured by Thomas & Betts using the TY-RAP® trade name. These special nylon cable ties feature a stainless steel locking device in the head to maintain a secure grip and are U.L. listed under FILE NO. E49495. Temp. rating: 40°F–185°F. Flammability rating: U.L. 94Y-2.

All black cable ties are weather-resistant, UV-stabilized nylon.

L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil-Standard / SAE Standard
3.62	.093	.625	18	Natural	CTB4	MS3367-4 / AS33671-4
					CTB43*	
				Black	CTB4B	
					CTB4B3*	
5.5	.140	1.125	40	Natural	CTB6	MS3367-5 / AS33671-5
					CTB63*	
				Black	CTB6B	
					CTB6B3*	
7.31	.185	1.75	50	Natural	CTB7	MS3367-1 / AS33671-1
					CTB73*	
				Black	CTB7B	
					CTB7B3*	
7	.092	1.5	18	Natural	CTB7M	
				Black	CTB7MB	
8.19	.140	2	40	Natural	CTB8	
				Black	CTB8B	
8.75	.270	2	120	Black	CTB9B	
11.1	.140	3	40	Natural	CTB11	
				Black	CTB11B	
14.2	.187	4	50	Natural	CTB14	MS3367-2 / AS33671-2
				Black	CTB14B	
13.4	.270	3.5	120	Natural	CTB15	MS3367-3 / AS33671-3
				Black	CTB15B	
24.3	.270	7	120	Natural	CTB24	
				Black	CTB24B	
30.3w	.270	9	120	Natural	CTB30	MS3367-6 / AS33671-6
				Black	CTB30B	



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Stainless Steel

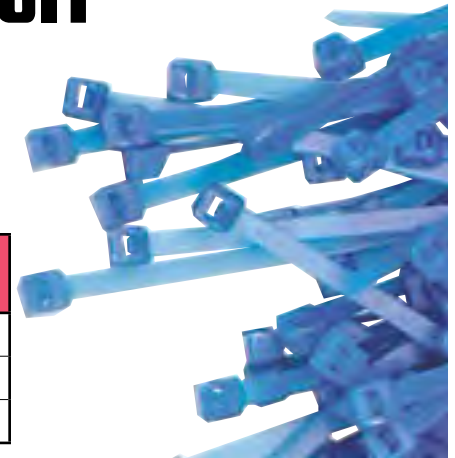
One-piece stainless steel ties, suitable for indoor or outdoor use. Self-locking, requiring no time consuming crimping or folding operations. For standard applications. Perfect for high temperature locations, marine and harsh environments, and automotive plants. -130°F (-80°C) to 1000°F (538°C)



304 Stainless Steel				
L (in)	W (in)	Max Bundle Dia. (in.)	Tensile Strength (lb)	Part No.
7.9	.18	2	200	CTS8
14.3		4		CTS14
20.5		6		CTS20
26.8	.310	8	450	CTS27
33		10		CTS33
39.3		12		CTS39

ETFE

7", 11", 14" Aqua blue color. **Temp. rating up to 338°F (170°C).** Ideal for applications requiring resistance to environmental stresses such as chemical attack, gamma radiation, UV radiation and extreme temps. In addition, ETFE has a U.L. flammability rating of 94V-0.



L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
7.4	.190 (3/16)	1.88	50	Aqua-Blue	CT7T
11.6		3			CT11T
14.6		4			CT14T



Hook & Loop Cable Ties

- Strip Ties with slot that allows pre-wrapping of bundles.
- Can be used with #10 truss head screw.



L (in)	W (in)	Max Bundle Dia. (in.)	Tensile Strength (lb)	Part No.
8	.5	1.91	40	CT8HL
12	.5	3.18	40	CT12HL





Universal Clamp

Rivet-style head for a visually attractive, finished appearance. Constructed of black, UV-sensitized nylon for harsh environments.

CTB9UC



L (in)	W (in)	Mounting Hole Size (in)	Clamping Range (in)	Tensile Strength (lb)	Part No.
9.6	.225	.320 to .680	.060 to 2.27	65	CTB9UC
14.8	.300	.316 to .820	.060 to 4	120	CTB15UC

Cable Tie Mounts



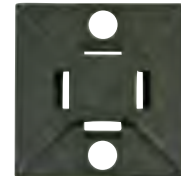
CTM2M



CTM2MB



CTM2



CTM2B



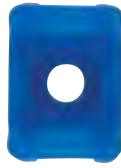
CTM5



CTM10

4-Way Adhesive Back, #6 Screw Mount

Size (in)	Max Cable Tie Width (in)	Color	Part No.
3/4 × 3/4	0.142	Natural	CTM2M
3/4 × 3/4	0.142	Black	CTM2MB
1 × 1	0.19	Natural	CTM2
1 × 1	0.19	Black	CTM2B
1-1/2 × 1-1/2	0.35	Natural	CTM5
2 × 2	0.35	Natural	CTM10



CTM1T



CTM2T



CTM4



CTM6B

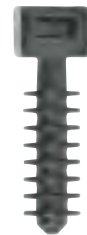
Screw Cradle Mount					
Description	Material	Max Cable Tie Width (in)	Size (in)	Color	Part No.
#10 Screw	ETFE	0.3	7/8 × 5/8 × 3/8	Aqua	CTM1T
#8 Screw		0.3	7/8 × 5/8 × 3/8	Aqua	CTM2T
#10 Screw	Nylon	0.3	7/8 × 5/8	Natural	CTM4
#10 Screw		0.301	9/16 × 15/16	Black	CTM6B

Screw Mount				
Description	Size (in)	Max Cable Tie Width (in)	Color	Part No.
#10 Screw	3/4 × 3/8	0.19	Natural	CTM3



CTM3

Masonry Plug Base				
Description	Size (in)	Max Cable Tie Width (in)	Color	Part No.
Maximum width 3/16"	Hole 1/4	0.19	Black	CMM14
Maximum width 1/2"	Hole 3/8	0.5	Black	CMM38



CMM14

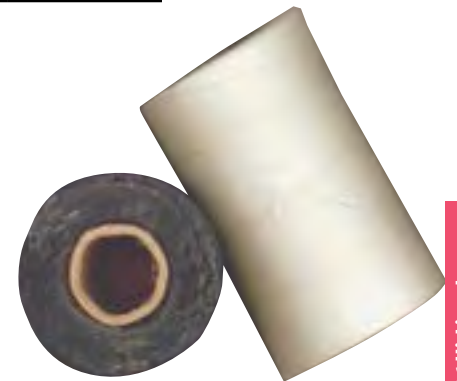


CMM38

Lacing Twine



Flat braided high-tenacity nylon yarn impregnated with microcrystalline fungicidal wax or impregnations to meet military specifications. Provides excellent knot retention and is suitable for either lacing or spot ties. Operational temp. range: -67°F to 250°F. A-A-52080 (formerly MIL-T-43435 Type 1). Mil Spec size 3. Finish B.



Width (in)	Thickness (in)	Strength (lb)	Put Up (yd)	Color	Part No.
.090	.014	50	500	White	LCW09
.090	.014	50	500	Black	LCB09



Cable Tie Assortments

Full Assortment
Product Quantity



50 / 20

.75" x .75"
CABLE TIE MOUNTING BASE
PRESSURE ADHESIVE BACK
CTM2MB

Starter Assortment
Product Quantity



You can choose between a full quantity assortment or partial "starter" assortment quantity.

Nylon Cable Ties – Black

Full Assortment

Part No. CTKB







875 Pieces (Comes in a PB6L parts bin)

Starter Assortment

Part No. CTKBSA

450 Pieces (Includes a PB6L parts bin)






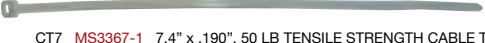
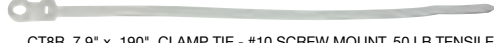
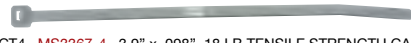

Back of Drawer

	50 / 20
CT15B MS3367-3 14.5" x .30", 120 LB TENSILE STRENGTH CABLE TIE	
	100 / 50
CT14B MS3367-2 14.5" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	100 / 50
CT11B MS3367-7 11.5" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	50 / 20
.75" x .75" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2MB	
	100 / 50
CT7B MS3367-1 7.4" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	50 / 40
CT8RB 7.9" x .190" CLAMP TIE - #10 SCREW MOUNT, 50 LB TENSILE STRENGTH	
	200 / 100
CT4B MS3367-4 3.9" x .098", 18 LB TENSILE STRENGTH CABLE TIE	
	200 / 100
CT5B 5.6" x .098", 18 LB TENSILE STRENGTH CABLE TIE	

Front of Drawer



Nylon Cable Ties – Natural

Full Assortment Part No. CTK 875 Pieces (Comes in a PB6L parts bin)	
Back of Drawer	
	50
CT15 MS3367-3 14.5" x .30", 120 LB TENSILE STRENGTH CABLE TIE	
	100
CT14 MS3367-2 14.5" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	100
CT11 MS3367-7 11.5" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	25
1" x 1" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2	
	50
.75" x .75" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2M	
	100
CT7 MS3367-1 7.4" x .190", 50 LB TENSILE STRENGTH CABLE TIE	
	50
CT8R 7.9" x .190" CLAMP TIE - #10 SCREW MOUNT, 50 LB TENSILE STRENGTH	
	200
CT4 MS3367-4 3.9" x .098", 18 LB TENSILE STRENGTH CABLE TIE	
	200
CT5 5.6" x .098", 18 LB TENSILE STRENGTH CABLE TIE	
Front of Drawer	

Nylon Cable Ties – Color

Full Assortment Part No. CTKC 600 Pieces (Comes in a PB6L parts bin)	
3.9" x .098" BLUE, 18 LB TENSILE CABLE TIE MS3367-4 CT4BE	50
7.4" x .190" BLUE, 50 LB TENSILE CABLE TIE MS3367-1 CT7BE	50
3.9" x .098" GREEN, 18 LB TENSILE CABLE TIE MS3367-4 CT4GN	50
7.4" x .190" GREEN, 50 LB TENSILE CABLE TIE MS3367-1 CT7GN	50
3.9" x .098" ORANGE, 18 LB TENSILE CABLE TIE MS3367-4 CT4OE	50
7.4" x .190" ORANGE, 50 LB TENSILE CABLE TIE MS3367-1 CT7OE	50
3.9" x .098" PURPLE, 18 LB TENSILE CABLE TIE MS3367-4 CT4PE	50
7.4" x .190" PURPLE, 50 LB TENSILE CABLE TIE MS3367-1 CT7PE	50
3.9" x .098" RED, 18 LB TENSILE CABLE TIE MS3367-4 CT4RD	50
7.4" x .190" RED, 50 LB TENSILE CABLE TIE MS3367-1 CT7RD	50
3.9" x .098" YELLOW, 18 LB TENSILE CABLE TIE MS3367-4 CT4YW	50
7.4" x .190" YELLOW, 50 LB TENSILE CABLE TIE MS3367-1 CT7YW	50



Cable Tie Assortments

Natural Ty-Rap®

Full Assortment
Part No. CTBK

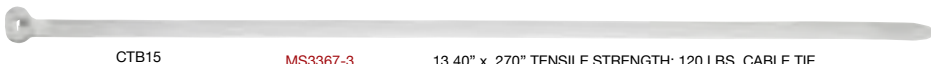




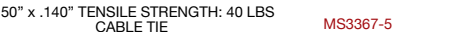


500 Pieces (Comes in a PB6L parts bin)

Starter Assortment

Part No. CTBKSA

240 Pieces (Includes a PB6L parts bin)

Back of Drawer

	CTB15	MS3367-3	13.40" x .270" TENSILE STRENGTH: 120 LBS, CABLE TIE	25 / 10
	CTB14	MS3367-2	14.20" x .187" TENSILE STRENGTH: 50 LBS, CABLE TIE	25 / 10
	CTB11		11.10" x .140" TENSILE STRENGTH: 40 LBS, CABLE TIE	100 / 50
	CTB7	MS3367-1	7.31" x 1.85" TENSILE STRENGTH: 50 LBS, CABLE TIE	100 / 50
	.75" x .75" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2M			25 / 10
	5.50" x .140" TENSILE STRENGTH: 40 LBS CABLE TIE	MS3367-5	CTB6	100 / 50
	1" x 1" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2			25 / 10
	3.62" x .093" TENSILE STRENGTH: 18 LBS CABLE TIE	MS3367-4	CTB4	100 / 50

Front of Drawer

Black Ty-Rap®

Full Assortment
Part No. CTBBK









500 Pieces Comes in a PB6L parts bin)

Starter Assortment

Part No. CTBBKSA

240 Pieces (Includes a PB6L parts bin)

Back of Drawer

	CTB15B	MS3367-3	13.40" x .270" TENSILE STRENGTH: 120 LBS, CABLE TIE	25 / 10
	CTB14B	MS3367-2	14.20" x .187" TENSILE STRENGTH: 50 LBS, CABLE TIE	25 / 10
	CTB11B		11.10" x .140" TENSILE STRENGTH: 30 LBS, CABLE TIE	100 / 50
	CTB7B	MS3367-1	7.31" x 1.85" TENSILE STRENGTH: 50 LBS, CABLE TIE	100 / 50
	.75" x .75" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2MB			25 / 10
	5.50" x .140" TENSILE STRENGTH: 40 LBS, CABLE TIE	MS3367-5	CTB6B	100 / 50
	1" x 1" CABLE TIE MOUNTING BASE PRESSURE ADHESIVE BACK CTM2B			25 / 10
	3.62" x .093" TENSILE STRENGTH: 18 LBS, CABLE TIE	MS3367-4	CTB4B	100 / 50

Front of Drawer



Metal Detectable Cable Ties

Full Assortment

Part No. AST0205

54 Pieces (Comes in a PB6L parts bin)

Back of Drawer			
14.4" L X .3" W - 60LB TENSILE CABLE TIE - METAL DETECTABLE CT15MDP		10	
14.4" L X .19" W - 30LB TENSILE CABLE TIE - METAL DETECTABLE CT14MDP		25	
11.5" L X .19" W - 30LB TENSILE CABLE TIE - METAL DETECTABLE CT11MDP		25	
7.3" L X .19" W - 30LB TENSILE CABLE TIE - METAL DETECTABLE CT7MDP		25	
#10(M5) SCREW .867" X .614" CABLE TIE MOUNT - METAL DETECTABLE CTM9		10	
			3.9" L X .098" W - 15LB TENSILE CABLE TIE - METAL DETECTABLE CT4MDP
#8 (M4) SCREW .63" X .42" CABLE TIE MOUNT - METAL DETECTABLE CTM7		10	
			#8 (M4) SCREW .867" X .614" CABLE TIE MOUNT - METAL DETECTABLE CTM8
Front of Drawer			





FLUID POWER

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AN/MS/NAS Aerospace Aluminum Hydraulic Fittings Adapters

37° Flare



Pressure Plug AN806/MS24404/AS5168	
Tube Size	Part No.
3/16	AN8063D
1/4	AN8064D
5/16	AN8065D
3/8	AN8066D
1/2	AN8068D
5/8	AN80610D
3/4	AN80612D

Tee AN824/MS24402	
Tube Size	Part No.
1/4	AN8244D
3/8	AN8246D
1/2	AN8248D
5/8	AN82410D

Bulkhead Nut AN924/MS24400/AS5178	
Tube Size	Part No.
1/4	AN9244D
3/8	AN9246D
1/2	AN9248D
5/8	AN92410D

Union AN815/MS24392/AS5174	
Tube Size	Part No.
1/4	AN8154D
3/8	AN8156D
1/2	AN8158D
5/8	AN81510D



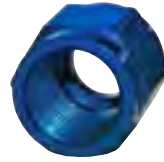
MPT=Male Pipe Thread, FPT=Female Pipe Thread



37° Flare



Cross AN827/MS24403/AS1036	
Tube Size	Part No.
1/4	AN8274D
3/8	AN8276D



Tube Nut AN818/AS5175	
Tube Size	Part No.
1/4	AN8184D
3/8	AN8186D
1/2	AN8188D
5/8	AN81810D



90° Elbow AN821/MS24401/AS1034	
Tube Size	Part No.
1/4	AN8214D
3/8	AN8216D
1/2	AN8218D
5/8	AN82110D



Pressure Cap AN929/AS5177	
Tube Size	Part No.
3/16	AN9293D
1/4	AN9294D
3/8	AN9296D
5/16	AN9295D
1/2	AN9298D
5/8	AN92910D



Male to Male 37° AN919/MS24399/AS5174	
Size To Size	Part No.
3/8 – 1/4	AN9196D
1/2 – 1/4	AN91910D
1/2 – 3/8	AN91912D



Female to Male Str. 37° Flare AN894/MS24398/AS5173		
Female Size	Male Size	Part No.
3/8	1/4	AN894D64
1/2	1/4	AN894D84
	3/8	AN894D86



Female 37° to Male 37° NAS1564		
Female Size	Male Size	Part No.
3/8	1/4	NAS156464D
1/2	1/4	NAS156484D
	3/8	NAS156486D
5/8	3/8	NAS1564106D

Pipe To 37° Flare



Pipe to 37° Flare Male Str. AN816/AS5194		
Tube Size	NPT Size	Part No.
1/4	1/8	AN8164D
3/8	1/4	AN8166D
1/2	3/8	AN8168D
5/8	1/2	AN81610D



Pipe to 37° Flare 90° Elbow AN822/MS20822/AS5195		
Tube Size	NPT Size	Part No.
1/4	1/8	MS208224D
3/8	1/4	MS208226D
1/2	3/8	MS208228D
5/8	1/2	MS2082210D



Pipe to 37° Flare 45° Elbow AN823/MS20823/AS5196		
Tube Size	NPT Size	Part No.
1/4	1/8	MS208234D
3/8	1/4	MS208236D
1/2	3/8	MS208238D
5/8	1/2	MS2082310D



AN/MS/NAS Fittings Adapters

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Pipe To 37° Flare



Hose Nipple



Pipe on Side AN825/MS20825/AS5197		
Tube Size	NPT Size	Part No.
1/4	1/8	MS208254D
3/8	1/4	MS208256D
1/2	3/8	MS208258D

Pipe on Run AN826/MS20826/AS5198		
Tube Size	NPT Size	Part No.
1/4	1/8	MS208264D
3/8	1/4	MS208266D
1/2	3/8	MS208268D

Straight Nipple AN840/AS5183		
Hose I.D.	NPT Size	Part No.
1/4	1/8	AN8404D
3/8	1/4	AN8406D
1/2	3/8	AN8408D
5/8	1/2	AN84010D

Pipe

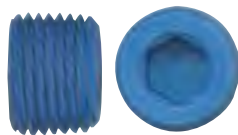


Coupling AN910/AS4589	
NPT Size	Part No.
1/4	AN9102D
3/8	AN9103D
1/2	AN9104D

Female 90° Elbow AN916/AS4856	
NPT Size	Part No.
3/8	AN9163D

Nipple AN911/AS4860	
NPT Size	Part No.
1/4	AN9112D
3/8	AN9113D
1/2	AN9114D

M/F 90° Elbow AN914/AS4854	
NPT Size	Part No.
1/4	AN9142D
3/8	AN9143D
1/2	AN9144D



Hex Plug AN932/MS27769/AS4864	
NPT Size	Part No.
1/4	MS277693D
3/8	MS277694D
1/2	MS277695D

Female Tee AN917/AS4857	
NPT Size	Part No.
1/4	AN9172D
3/8	AN9173D
1/2	AN9174D

Pipe Reducer Bushing AN912/AS4861		
Male Size	Female Size	Part No.
1/4	1/8	AN9121D
3/8	1/4	AN9122D
	1/8	AN9123D
1/2	3/8	AN9124D



Non-Threaded Tapered Caps & Plugs

The following can be used as either caps or plugs. Because they are tapered in design and made from highly pliable (or flexible) polyethylene, they can be applied to fit snugly but are readily removable...whether used for capping or plugging. Applicable Specs: MIL-C-52078, NAS-834, MIL-C-5501/7



Caps for NPT Pipe	
Size	Part No.
1/8	CCT4
1/4	CCT6
3/8	CCT8X
1/2	CCT11
3/4	CCT13X
1	CCT15X
1-1/4	CCT18
1-1/2	CCT20
2	CCT240

Caps for Unthreaded Schedule 40 Pipe	
Size	Part No.
1/8	CCT4
1/4	CCT6X
3/8	CCT8X
1/2	CCT11
3/4	CCT13X
1	CCT16
1-1/4	CCT18X
1-1/2	CCT210
2	CCT240

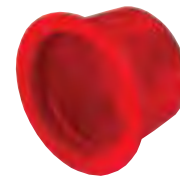
Caps for Tube & Hydraulic Fittings			
Tubing O.D.	Dash Size	Thread Size	Part No.
1/8	2	5/16-24	CCT2
3/16	3	3/8-24	CCT3X
1/4	4	7/16-20	CCT4X
5/16	5	1/2-20	CCT5
3/8	6	9/16-18	CCT6X
1/2	8	3/4-16	CCT9X
5/8	10	7/8-14	CCT11X
3/4	12	1-1/16-12	CCT13X
1	16	1-5/16-12	CCT15X
1-1/4	20	1-5/8-12	CCT18
1-1/2	24	1-7/8-12	CCT20
1-3/4	28	2-1/4-12	CCT230
2	32	2-1/2-12	CCT250



Plugs for NPT Pipe	
Size	Part No.
1/8	PT2X
1/4	PT4
3/8	PT6X
1/2	PT9
3/4	PT12X
1	PT14
1-1/4	PT17S
1-1/2	PT20S
2	PT24S

Plugs for Unthreaded Schedule 40 Pipe	
Size	Part No.
1/8	PT1
1/4	PT2X
3/8	PT5
1/2	PT7
3/4	PT10
1	PT13
1-1/4	PT16
1-1/2	PT18
2	PT220

Plugs for Tube & Hydraulic Fittings			
Tubing O.D.	Dash Size	Thread Size	Part No.
1/8	2	5/16-24	PT1
3/16	3	3/8-24	PT2
1/4	4	7/16-20	PT3
5/16	5	1/2-20	PT4
3/8	6	9/16-18	PT5
1/2	8	3/4-16	PT8
5/8	10	7/8-14	PT10
3/4	12	1-1/16-12	PT12X
1	16	1-5/16-12	PT14X
1-1/4	20	1-5/8-12	PT17S
1-1/2	24	1-7/8-12	PT19
1-3/4	28	2-1/4-12	PT221
2	32	2-1/2-12	PT240





Caps & Plugs



Threaded Caps & Plugs

High-density polyethylene Caps and Plugs are ideal for keeping moisture and debris from threaded ports. They will seal low pressure with light finger tightening.

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Threaded Plugs for JIC 37° Hydraulic Fittings			
MIL-C-52078, MIL-C-5501/1, NAS-833			
Tubing O.D.	Dash Size	Thread Size	Part No.
1/8	2	5/16-24	PPD20
3/16	3	3/8-24	PPD30
1/4	4	7/16-20	PPD40
5/16	5	1/2-20	PPD50
3/8	6	9/16-18	PPD60
1/2	8	3/4-16	PPD80
5/8	10	7/8-14	PPD100
3/4	12	1-1/16-12	PPD120
1	16	1-5/16-12	PPD160
1-1/4	20	1-5/8-12	PPD200
1-1/2	24	1-7/8-12	PPD240
2	32	2-1/2-12	PPD320

Threaded Caps for JIC 37° Hydraulic Fittings			
MIL-C-52078, MIL-C-5501/1, NAS-814, NAS-832, MIL-C-5501/3R			
Tubing O.D.	Dash Size	Thread Size	Part No.
3/16	3	3/8-24	CCD3
1/4	4	7/16-20	CCD4
5/16	5	1/2-20	CCD5
3/8	6	9/16-18	CCD6
1/2	8	3/4-16	CCD8
5/8	10	7/8-14	CCD10
3/4	12	1-1/16-12	CCD12
7/8	14	1-3/16-12	CCD14
1	16	1-5/16-12	CCD16
1-1/4	20	1-5/8-12	CCD20
1-1/2	24	1-7/8-12	CCD24



Threaded Plugs for O-Ring Boss Fittings			
Tubing O.D.	Dash Size	Thread Size	Part No.
1/4	4	7/16-20	PPD0104
5/16	5	1/2-20	PPD0105
3/8	6	9/16-18	PPD0106
1/2	8	3/4-16	PPD0108
5/8	10	7/8-14	PPD0110
3/4	12	1-1/16-12	PPD0112
1	16	1-5/16-12	PPD0116
1-1/4	20	1-5/8-12	PPD0120

Threaded Plugs for Flat face O-Ring Fittings			
Tubing O.D.	Dash Size	Thread Size	Part No.
1/4	4	9/16-18	PPDF40
3/8	6	11/16-16	PPDF60
1/2	8	13/16-16	PPDF80
5/8	10	1-14	PPDF100
3/4	12	1-3/16-12	PPDF120
1	16	1-7/16-12	PPDF160



**MADE IN
USA**



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Threaded Caps for NPT Pipe

FPT	Part No.
3/8-18	CPC.375
1/2-14	CPC.50
3/4-14	CPC.75
1-11-1/2	CPC1
1-1/4-11-1/2	CPC1.25
1-1/2-11-1/2	CPC1.5
2-11-1/2	CPC2

Threaded Plugs for NPT Pipe

MIL-C-52078, MIL-C-5501/5, NAS-840

FPT	Part No.
1/8-27	PP18
1/4-18	PP28
3/8-18	PP38
1/2-14	PP48
3/4-14	PP68H
1-11-1/2	PP88H
1-1/4-11-1/2	PP108





Double-Ferrule Tube Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread

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Double-Ferrule Tube Fittings – Stainless Steel



Union	
Tube O.D.	Part No.
1/8	BIN24030202SS
1/4	BIN24030404SS
3/8	BIN24030606SS
1/2	BIN24030808SS



Reducing Union		
Tube O.D.	Tube O.D.	Part No.
1/4	1/8	BIN24030402SS
3/8	1/4	BIN24030604SS
1/2	3/8	BIN24030806SS



Bulkhead Union	
Tube O.D.	Part No.
1/8	BIN2700LN22SS
1/4	BIN2700LN44SS
3/8	BIN2700LN66SS
1/2	BIN2700LN88SS



Union Cross	
Tube O.D.	Part No.
1/8	BIN26502222SS
1/4	BIN26504444SS
3/8	BIN26506666SS
1/2	BIN26508888SS



Nut	
Tube O.D.	Part No.
1/8	BIN031802SS
1/4	BIN031804SS
3/8	BIN031806SS
1/2	BIN031808SS



Ferrule Set	
Tube O.D.	Part No.
1/8	BIN0319S02SS
1/4	BIN0319S04SS
3/8	BIN0319S06SS
1/2	BIN0319S08SS



Plug	
Tube O.D.	Part No.
1/8	BIN0304C02SS
1/4	BIN0304C04SS
3/8	BIN0304C06SS
1/2	BIN0304C08SS



Cap	
Tube O.D.	Part No.
1/8	BIN240802SS
1/4	BIN240804SS
3/8	BIN240806SS
1/2	BIN240808SS

Interchangeability

Brennan Instrumentation Double-Ferrule Tube Fittings are manufactured to be totally interchangeable and fully component intermixable with the Swagelok® and Parker A-LOK® tube fittings brands.

Brennan Double-Ferrule

Compression Tube Fittings are totally interchangeable with tube fittings of certain other manufacturers including Parker CPITM and HOKE Gyrolok®.



MPT=Male Pipe Thread, FPT=Female Pipe Thread



Male Connector		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN24040202SS
1/4	1/8	BIN24040402SS
	1/4	BIN24040404SS
3/8	1/4	BIN24040604SS
	3/8	BIN24040606SS
1/2	3/8	BIN24040806SS
	1/2	BIN24040808SS



Female Connector		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN24050202SS
1/4	1/8	BIN24050402SS
	1/4	BIN24050404SS
3/8	1/4	BIN24050604SS
	3/8	BIN24050606SS
1/2	3/8	BIN24050806SS
	1/2	BIN24050808SS



Male Elbow		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN25010202SS
1/4	1/8	BIN25010402SS
	1/4	BIN25010404SS
3/8	1/4	BIN25010604SS
	3/8	BIN25010606SS
	1/2	BIN25010608SS
1/2	1/2	BIN25010808SS



Female Elbow		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN25020202SS
1/4	1/8	BIN25020402SS
	1/4	BIN25020404SS
3/8	1/4	BIN25020604SS
	3/8	BIN25020606SS
1/2	3/8	BIN25020806SS
	1/2	BIN25020808SS



Union Elbow	
Tube O.D.	Part No.
1/8	BIN25000202SS
1/4	BIN25000404SS
3/8	BIN25000606SS
1/2	BIN25000808SS



Union Tee	
Tube O.D.	Part No.
1/8	BIN2603222SS
1/4	BIN2603444SS
3/8	BIN2603666SS
1/2	BIN2603888SS





Double-Ferrule Tube Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread

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Double-Ferrule Tube Fittings – Stainless Steel



Male Branch Tee		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN2601222SS
1/4	1/8	BIN2601442SS
	1/4	BIN2601444SS
3/8	1/4	BIN2601664SS
	3/8	BIN2601666SS
1/2	1/2	BIN2601888SS



Male Run Tee		
Tube O.D.	MPT	Part No.
1/8	1/8	BIN2605222SS
1/4	1/8	BIN2605424SS
	1/4	BIN2605444SS
3/8	1/4	BIN2605646SS
1/2	3/8	BIN2605868SS
	1/2	BIN2605888SS

Eaton's Weatherhead Catalogs

Hi-Line is a full-line Weatherhead distributor. We are displaying only a few of the top sellers. Many other sizes, shapes and styles are available. Please see your local Hi-Line Territory Manager and/or refer to the Eaton/Weatherhead catalogs for details. You can view the Eaton/Weatherhead literature library at www.eaton.com.

Brass Catalog

Part No: PWHDBF



Hose Catalog

Part No: PWHDHA





MPT=Male Pipe Thread, FPT=Female Pipe Thread

D.O.T. Air Brake Fittings

Compression Air Brake Fittings



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Union	
Tube O.D.	Part No.
1/4	1462x4
3/8	1462x6
1/2	1462x8
5/8	1462x10



Male Connector		
Tube O.D.	MPT	Part No.
1/4	1/8	1468x4
	1/4	1468x4x4
3/8	1/4	1468x6
	3/8	1468x6x6
1/2	3/8	1468x8
	1/2	1468x8x8



90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	1469x4
	1/4	1469x4x4
3/8	1/4	1469x6
	3/8	1469x6x6
1/2	3/8	1469x8
	1/2	1469x8x8



Nut	
Tube O.D.	Part No.
1/4	1461x4
3/8	1461x6
1/2	1461x8



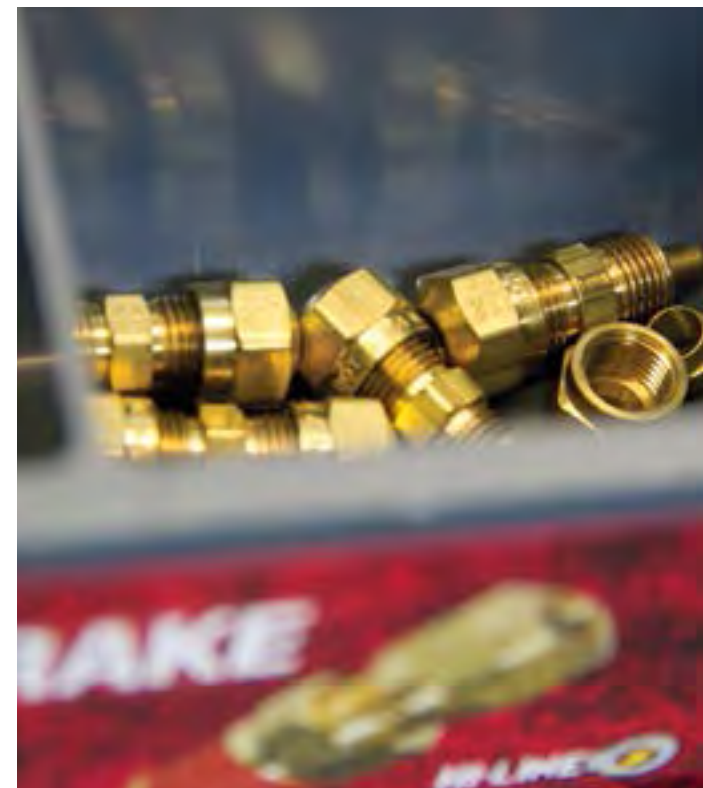
Sleeve	
Tube O.D.	Part No.
1/4	1460x4
3/8	1460x6
1/2	1460x8



Scan to watch a D.O.T. Brass Quick Connect Air Brake Fittings video on your phone.



Nylon Air Brake Tubing			
SAEJ844 Type A & B DOT, FMVSS 571.106			
Tube O.D.	Length	Color	Part No.
1/4	100'	Black	4247-0410-0100
3/8			3270-0610-0100
1/2			3270-0810-0100





D.O.T. Tube Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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QCAB Quick-Connect Air Brake – Brass



Union	
Tube O.D.	Part No.
5/32	1862x2.5
3/16	1862x3
1/4	1862x4
3/8	1862x6
1/2	1862x8
5/8	1862x10

Male Connector		
Tube O.D.	MPT	Part No.
1/4	1/8	1868x4
	1/4	1868x4x4
3/8	1/4	1868x6
	3/8	1868x6x6
1/2	3/8	1868x8
	1/2	1868x8x8

90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	1869x4
	1/4	1869x4x4
3/8	1/4	1869x6
	3/8	1869x6x6
1/2	3/8	1869x8
	1/2	1869x8x8



Union Tee	
Tube O.D.	Part No.
1/4	1864x4
3/8	1864x6
1/2	1864x8



Quick Connect Air Brake – Composite



45° Q-CAB Connection to Male Pipe		
Tube O.D.	MPT	Part No.
1/4	1/8	217-35004-03
	1/4	217-38404-03
3/8	1/4	217-35006-03
	3/8	217-38606-03
1/2	3/8	217-35008-03
	1/2	217-38808-03
5/8	3/8	217-38610-03
	1/2	217-35010-03

90° Q-CAB Connection to Male Pipe		
Tube O.D.	MPT	Part No.
1/4	1/8	217-40004-03
	1/4	217-43404-03
	3/8	217-43604-03
3/8	1/8	217-43206-03
	1/4	217-40006-03
	3/8	217-43606-03
1/2	3/8	217-40008-03
	1/2	217-43808-03
5/8	3/8	217-43610-03
	1/2	217-40010-03



MPT=Male Pipe Thread, FPT=Female Pipe Thread

Composite D.O.T. Push to Connect Tube Fittings



Union	
Tube O.D.	Part No.
1/8	B1862x2
5/32	B1862x2.5
3/16	B1862x3
1/4	B1862x4
3/8	B1862x6
1/2	B1862x8
5/8	B1862x10



Male Connector		
Tube O.D.	MPT	Part No.
5/32	1/8	B1868x2.5x2
	1/4	B1868x2.5x4
3/16	1/8	B1868x3x2
	1/4	B1868x3x4
1/4	1/8	B1868x4x2
	1/4	B1868x4x4
	3/8	B1868x4x6
3/8	1/4	B1868x6x4
	3/8	B1868x6x6
	1/2	B1868x6x8
1/2	3/8	B1868x8x6
	1/2	B1868x8x8



Female Connector		
Tube O.D.	MPT	Part No.
5/32	1/8	B1866x2.5x2
	1/4	B1866x2.5x4
3/16	1/8	B1866x3x2
1/4	1/8	B1866x4x2
	1/4	B1866x4x4
3/8	1/4	B1866x6x4
	3/8	B1866x6x6



Male 90° Swivel Elbow		
Tube O.D.	NPT	Part No.
1/8	1/8	B1869x2x2
5/32	1/8	B1869x2.5x2
3/16	1/8	B1869x3x2
1/4	1/8	B1869x4x2
	1/4	B1869x4x4
	3/8	B1869x4x6
3/8	1/4	B1869x6x4
	3/8	B1869x6x6
	1/2	B1869x6x8
1/2	1/4	B1869x8x4
	3/8	B1869x8x6
	1/2	B1869x8x8
5/8	3/8	B1869x10x6
	1/2	B1869x10x8
3/4	1/2	B1869x12x8



Union 90° Elbow	
Tube O.D.	Part No.
5/32	B1865x2.5
3/16	B1865x3
1/4	B1865x4
3/8	B1865x6
1/2	B1865x8



Male 45° Swivel Elbow		
Tube O.D.	NPT	Part No.
1/8	1/8	B1880x2x2
1/4	1/8	B1880x4x2
	1/4	B1880x4x4
	3/8	B1880x4x6
3/8	1/4	B1880x6x4
	3/8	B1880x6x6
	1/2	B1880x6x8
1/2	3/8	B1880x8x6
	1/2	B1880x8x8





D.O.T. Tube Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread

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Composite D.O.T. Push to Connect Tube Fittings



Union Tee	
Tube O.D.	Part No.
5/32	B1864x2.5
3/16	B1864x3
1/4	B1864x4
3/8	B1864x6
1/2	B1864x8

Male Swivel Branch Tee		
Tube O.D.	NPT	Part No.
5/32	1/8	B1872x2.5x2
	1/4	B1872x2.5x4
3/16	1/8	B1872x3x2
1/4	1/8	B1872x4x2
	1/4	B1872x4x4
	3/8	B1872x4x6
3/8	1/4	B1872x6x4
	3/8	B1872x6x6
	1/2	B1872x6x8
1/2	1/4	B1872x8x4
	3/8	B1872x8x6
	1/2	B1872x8x8

Male Run Tee		
Tube O.D.	NPT	Part No.
5/32	1/8	B1871x2.5x2
	1/4	B1871x2.5x4
3/16	1/8	B1871x3x2
1/4	1/8	B1871x4x2
	1/4	B1871x4x4
	3/8	B1871x4x6
3/8	1/4	B1871x6x4
	3/8	B1871x6x6
	1/2	B1871x6x8
1/2	1/4	B1871x8x4
	3/8	B1871x8x6
	1/2	B1871x8x8



"Y" Male Connector		
Tube O.D.	NPT	Part No.
5/32	1/8	B1898x2.5x2
	1/4	B1898x2.5x4
1/4	1/8	B1898x4x2
	1/4	B1898x4x4

Union "Y"	
Tube O.D.	Part No.
5/32	B1895x2.5
1/4	B1895x4
3/8	B1895x6

Bulkhead Union	
Tube O.D.	Part No.
5/32	B1874x2.5
1/4	B1874x4
3/8	B1874x6
1/2	B1874x8



MPT=Male Pipe Thread, FPT=Female Pipe Thread



Transmission Fittings



Transmission Male Connector		
Tube O.D.	MPT	Part No.
1/8	1/16	PH68TF21
1/8	1/8	PH68TF22
5/32	1/16	PH68TF5321
5/32	1/8	PH68TF5322



Transmission 90° Male Elbow		
Tube O.D.	MPT	Part No.
1/8	1/8	PH269TF22
5/32	1/8	PH269TF5322



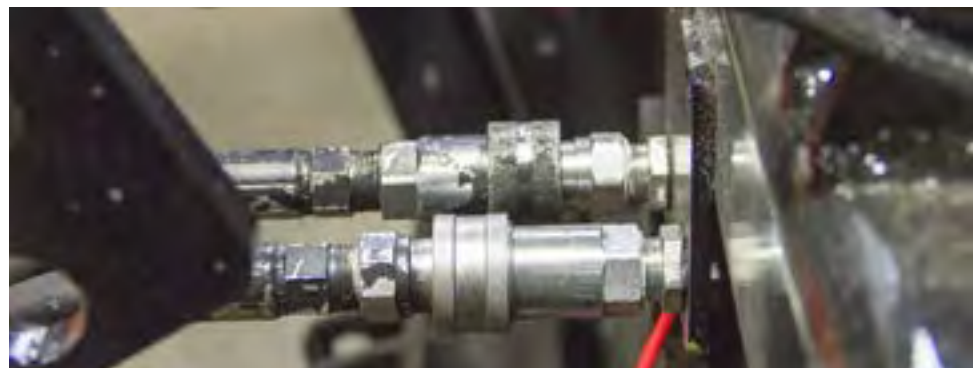
Transmission Nut	
Tube O.D.	Part No.
1/8	PH61TF2
5/32	PH61TF532



Transmission Sleeve	
Tube O.D.	Part No.
1/8	PH60TF2
5/32	PH60TF532



Transmission Union	
Tube O.D.	Part No.
1/8	PH62TF2
5/32	PH62TF532





Tube Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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SAE 45° Flare Fittings



Union	
Tube O.D.	Part No.
1/4	42x4
5/16	42x5
3/8	42x6
1/2	42x8
5/8	42x10



Male Connector		
Tube O.D.	MPT	Part No.
1/4	1/8	48x4
	1/4	48x4x4
5/16	1/8	48x5
3/8	1/4	48x6
	3/8	48x6x6
1/2	3/8	48x8
	1/2	48x8x8



90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	49x4
	1/4	49x4x4
5/16	1/8	49x5
3/8	1/4	49x6
	3/8	49x6x6
1/2	3/8	49x8



Long Nut	
Tube O.D.	Part No.
1/4	41x4
3/8	41x6
1/2	41x8



Cap	
Tube O.D.	Part No.
1/4	40x4
5/16	40x5
3/8	40x6



Union	
Tube O.D.	Part No.
3/16	302x3
1/4	302x4
5/16	302x5
3/8	302x6

Inverted Flare Fittings



Male Connector		
Tube O.D.	MPT	Part No.
3/16	1/8	202x3
1/4	1/8	202x4
	1/4	202x4x4
5/16	1/8	202x5
	1/4	202x5x4
3/8	1/4	202x6



90° Male Elbow		
Tube O.D.	MPT	Part No.
3/16	1/8	402x3
1/4	1/8	402x4
	1/4	402x4x4
5/16	1/8	402x5
	1/4	402x5x4
3/8	1/4	402x6



Tube Nut	
Tube O.D.	Part No.
3/16	105x3
1/4	105x4
5/16	105x5
3/8	105x6



MPT=Male Pipe Thread, FPT=Female Pipe Thread



Union	
Tube O.D.	Part No.
1/8	1162x2
1/4	1162x4
3/8	1162x6
1/2	1162x8

Push Connect

- Nickel-plated brass
- Up to 250 psi
- Excellent for assembly equipment and cylinder controls
- Popular in food processing plants
- For additional shapes refer to Eaton/Weatherhead Brass Catalog



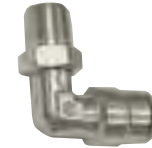
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Male Connector		
Tube O.D.	MPT	Part No.
1/8	1/8	1168x2
1/4	1/8	1168x4
	1/4	1168x4x4
3/8	1/4	1168x6
	3/8	1168x6x6
1/2	3/8	1168x8



Swivel 90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	1169x4S
	1/4	1169x4x4S
3/8	1/4	1169x6S
	3/8	1169x6x6S
1/2	3/8	1169x8S
	1/2	1169x8x8S



90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	1169x4
	1/4	1169x4x4
3/8	1/4	1169x6
	3/8	1169x6x6

Compression Fittings



Union	
Tube O.D.	Part No.
1/8	62x2
3/16	62x3
1/4	62x4
5/16	62x5
3/8	62x6



Male Connector		
Tube O.D.	MPT	Part No.
1/8	1/8	68x2
1/4	1/8	68x4
	1/4	68x4x4
5/16	1/8	68x5
3/8	1/4	68x6



90° Male Elbow		
Tube O.D.	MPT	Part No.
1/4	1/8	69x4
	1/4	69x4x4
5/16	1/8	69x5
3/8	1/4	69x6
	3/8	69x6x6



Nut	
Tube O.D.	Part No.
1/8	61x2
1/4	61x4
3/8	61x6



Sleeve	
Tube O.D.	Part No.
1/8	60x2
1/4	60x4
3/8	60x6



Brass Pipe Fittings

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Brass Pipe Fittings



Coupling	
FPT	Part No.
1/8	3300x2
1/4	3300x4
3/8	3300x6
1/2	3300x8



Bushing		
MPT	FPT	Part No.
1/4	1/8	3220x4x2
3/8	1/8	3220x6x2
	1/4	3220x6x4
1/2	1/8	3220x8x2
	1/4	3220x8x4
	3/8	3220x8x6
3/4	3/8	3220x12x6
	1/2	3220x12x8



Reducer Coupling		
FPT	FPT	Part No.
1/4	1/8	3300x4x2
3/8	1/8	3300x6x2
	1/4	3300x6x4
1/2	3/8	3300x8x6



Adapter		
FPT	MPT	Part No.
1/8	1/8	3200x2
1/4	1/8	3200x4x2
	1/4	3200x4
3/8	1/4	3200x6x4
	3/8	3200x6
1/2	3/8	3200x8x6



Hex Nipple		
MPT	FPT	Part No.
1/8	1/8	3325x2
1/4	1/4	3325x4
	1/8	3325x4x2
3/8	3/8	3325x6
	1/8	3325x6x2
	1/4	3325x6x4
1/2	1/2	3325x8



Close Nipple	
MPT	Part No.
1/8	3326x2
1/4	3326x4
3/8	3326x6
1/2	3326x8



Long Nipple		
MPT	Length	Part No.
1/8	1.50"	3327x2
1/4	1.50"	3327x4
	2.00"	3328x4
3/8	1.50"	3327x6



90° Street Elbow		
MPT	FPT	Part No.
1/8	1/8	3400x2
1/4	1/4	3400x4
3/8	3/8	3400x6
1/2	1/2	3400x8

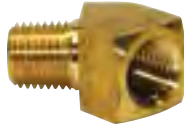


90° Female Elbow	
MPT	Part No.
1/8	3500x2
1/4	3500x4
3/8	3500x6
1/2	3500x8



MPT=Male Pipe Thread, FPT=Female Pipe Thread

Brass Pipe Fittings



45° Street Elbow		
FPT	MPT	Part No.
1/8	1/8	3350x2
1/4	1/4	3350x4
3/8	3/8	3350x6
1/2	1/2	3350x8



Male Branch Tee		
FPT	MPT	Part No.
1/8	1/8	3600x2
1/4	1/4	3600x4
3/8	3/8	3600x6
1/2	1/2	3600x8



Street Tee		
FPT	MPT	Part No.
1/8	1/8	3750x2
1/4	1/4	3750x4
3/8	3/8	3750x6
1/2	1/2	3750x8



Tee	
FPT	Part No.
1/8	3700x2
1/4	3700x4
3/8	3700x6
1/2	3700x8



Hex Head Plug	
MPT	Part No.
1/8	3152x2
1/4	3152x4
3/8	3152x6
1/2	3152x8
3/4	3152x12



Square Head Plug	
MPT	Part No.
1/8	3151x2
1/4	3151x4
3/8	3151x6
1/2	3151x8



Thread Sealant

Part No: CHST05

9GM. Quick Stick cures rapidly. Immediate low pressure sealing to 100 psi. Controlled lubricity prevents galling. Protects threaded areas from rust and corrosion. Provides exceptional fluid compatibility and chemical resistance. Will not contaminate or clog lines. Eases disassembly.





Steel Adapters

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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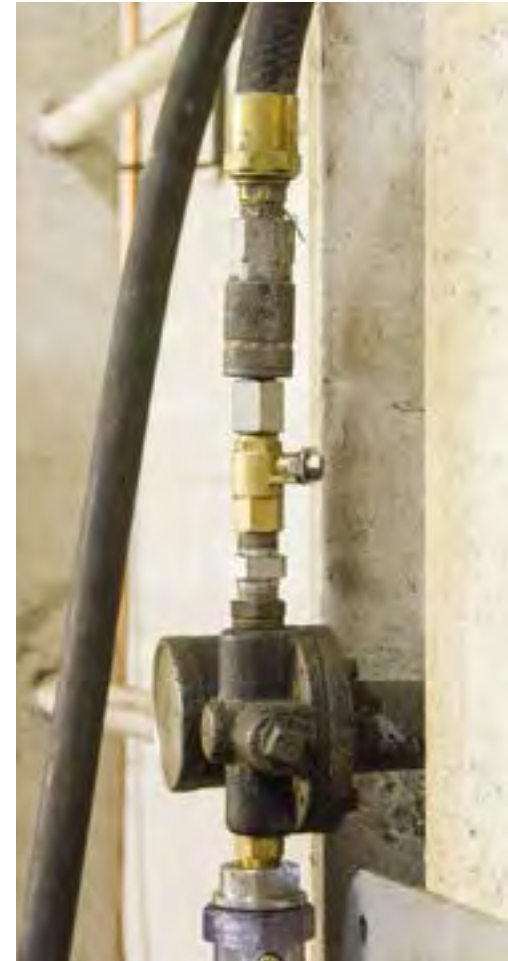
Steel Adapters



Coupling	
MPT	Part No.
1/8	C3309x2
1/4	C3309x4
3/8	C3309x6
1/2	C3309x8

Hex Nipple	
MPT	Part No.
1/8	C3069x2
1/4	C3069x4
3/8	C3069x6
1/2	C3069x8

Hex Plug	
MPT	Part No.
1/8	C3159x2
1/4	C3159x4
3/8	C3159x6
1/2	C3159x8



Bushing		
MPT	FPT	Part No.
1/4	1/8	C3109x4x2
3/8	1/4	C3109x6x4
1/2	1/4	C3109x8x4
	3/8	C3109x8x6
3/4	1/2	C3109x12x8

Adapter		
FPT	MPT	Part No.
1/4	1/8	C3209x4x2
3/8	1/4	C3209x6x4
1/2	1/4	C3209x8x4
1/2	3/8	C3209x8x6



90° Elbow		
FPT	FPT	Part No.
1/4	1/4	C3509x4
3/8	1/4	C3509x6x4
	3/8	C3509x6
1/2	1/2	C3509x8

90° Street Elbow		
MPT	FPT	Part No.
1/8	1/8	C3409x2
1/4	1/4	C3409x4
3/8	3/8	C3409x6
1/2	1/2	C3409x8

Stainless Steel Hex Head Plug	
MPT	Part No.
1/8	3171x2
1/4	3171x4
3/8	3171x6
1/2	3171x8



MPT=Male Pipe Thread, FPT=Female Pipe Thread

Steel Adapters



O-Ring Flat Face Seal Cap	
Tube O.D.	Part No.
1/4	4129x4
3/8	4129x6
1/2	4129x8
5/8	4129x10
3/4	4129x12



O-Ring Flat Face Seal Plug	
Tube O.D.	Part No.
1/4	4229x4
3/8	4229x6
1/2	4229x8
5/8	4229x10
3/4	4229x12



Flat Face Seal to Straight Thread O-Ring		
Tube O.D.	Port Size	Part No.
1/4	1/4	4315x4
	3/8	4315x4x6
3/8	1/4	4315x6x4
	3/8	4315x6



Flat Face Seal Male Connector		
Tube O.D.	MPT	Part No.
3/8	3/8	4205x6x6
1/2	3/8	4205x8
	1/2	4205x8x8
5/8	1/2	4205x10



Seal-Nut For Male Pipe Threads (Steel With PTFE Seal)	
MPT	Part No.
1/8	C3059x2
1/4	C3059x4
3/8	C3059x6
1/2	C3059x8



JIC 37° Flare Cap	
Tube O.D.	Part No.
1/4	C5129x4
3/8	C5129x6
1/2	C5129x8
5/8	C5129x10
3/4	C5129x12



JIC 37° Flare Plug	
Tube O.D.	Part No.
1/4	C5229x4
3/8	C5229x6
1/2	C5229x8
5/8	C5229x10
3/4	C5229x12



JIC 37° Hex Union		
Tube O.D.	Tube O.D.	Part No.
1/4	1/4	C5305x4
3/8	3/8	C5305x6
1/2	1/2	C5305x8
5/8	5/8	C5305x10
3/4	3/4	C5305x12



JIC 37° Male Connector		
Tube O.D.	MPT	Part No.
1/4	1/8	C5205x4
	1/4	C5205x4x4
3/8	1/4	C5205x6
	3/8	C5205x6x6
1/2	1/4	C5205x8x4

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Hose Ends

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Hose Ends

Application: General purpose low, medium and high pressure hydraulic.

U Series

Compatible Hose: H017, H039, H104, H114, H115, H145, H146, H245, H324, H325, H350, H425, H545, H900, H1812, H0105, H0106, H116, H1981, H1982, H9949, H1776, H1777, H1571, H6002 (-8 & -20)



Male Pipe Rigid		
Tube O.D.	MPT	Part No.
1/4	1/4	04U104
3/8	3/8	06U106
1/2	1/2	08U108



Male Pipe Swivel		
Hose I.D.	MPT	Part No.
1/4	1/4	04UJ04
3/8	1/4	06UJ04
	3/8	06UJ06
	1/2	06UJ08
1/2	3/8	08UJ06
	1/2	08UJ08



Female Pipe Swivel		
Hose I.D.	FPT	Part No.
1/4	1/4	04U054
3/8	3/8	06U056
1/2	1/2	08U058
3/4	3/4	12U062



JIC 37° Male Rigid		
Hose I.D.	Tube Size	Part No.
1/4	1/4	04U504
3/8	3/8	06U506
	1/2	06U508



JIC 37° Female Swivel		
Hose I.D.	Tube Size	Part No.
1/4	1/4	04U604*
	3/8	04U606
3/8	3/8	06U606
	1/2	06U608*
1/2	1/2	08U608*
	5/8	08U610*



JIC 37° Female Swivel 45° Elbow		
Hose I.D.	Tube Size	Part No.
1/4	1/4	04U684*
3/8	1/4	06U684*
	3/8	06U686
1/2	1/2	08U688*



JIC 37° Female Swivel 90° Elbow		
Hose I.D.	Tube Size	Part No.
1/4	1/4	04U664*
3/8	3/8	06U666
	1/2	06U668*
1/2	1/2	08U668*
3/4	3/4	12U672





MPT=Male Pipe Thread, FPT=Female Pipe Thread

Barb Hose Fittings



100B Barb-Tite 90° Male Elbow

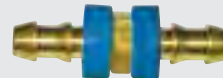
Hose I.D.	MPT	Part No.
3/8	1/8	10006BC102
3/8	1/4	10006BC104

Application: Low pressure shop or service air lines.
Often used for low pressure lube and oil lines.
Compatible Hose: H100, H101, H201, H332



100B Barb-Tite Male Pipe Fittings

Hose I.D.	MPT	Part No.
1/4	1/4	10004B104
3/8	1/4	10006B104
	3/8	10006B106



100B Barb-Tite Hose Mender

Hose I.D.	Part No.
1/4	10004BY04
3/8	10006BY06



100B Barb-Tite JIC 37° Female Swivel

Hose I.D.	Tube Size	Part No.
1/4	1/4	10004B604
3/8	3/8	10006B606



057B Barbed Hose Nipple

Hose I.D.	MPT	Part No.
1/4	1/4	05704B104
5/16	1/4	05705B104
3/8	1/4	05706B104

For use with fuel line hose.



Barbed Hose Mender

Hose I.D.	Part No.
1/8	4200X2
3/16	4200X3
1/4	PH122HBL4
5/16	PH122HBL5
3/8	PH122HBL6
1/2	PH122HBL8
5/8	4200X10
3/4	4200X12
1	4200X16



105 Barbed Hose Nipple

Hose I.D.	MPT	Part No.
1/4	1/4	10504B104
3/8	1/4	10506B104
	3/8	10506B106
1/2	1/2	10508B108



Hose & Accessories

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Air Brake Hose H338 Field Attachable			
Description	Hose I.D.	Pipe Size	Part No.
Sleeve	3/8	-	33806A
	1/2	-	33808A
Nut	3/8	-	33806B
	1/2	-	33808B
Hose Mender	3/8	-	33806BY06
	1/2	-	33008BY08
Male Connector	3/8	1/4	33806BY24
		3/8	33806BY26
		1/2	33806BY28
	1/2	3/8	33808BY26
		1/2	33808BY28
		1/2	33808BY28
Male Connector with Spring Guard	3/8	1/4	33806BY34
		3/8	33806BY36
		1/2	33806BY38
	1/2	3/8	33808BY36
		1/2	33808BY36
		1/2	33808BY38

Use with EC038 Air Brake Hose.

Refer to Eaton/Weatherhead catalogs for additional product.



Male Connector with Spring Guard



Hose Mender



Nut



Male Connector



Sleeve

Hose Holders and Separators		
Description	Hose I.D.	Part No.
2 Hose Separator	3/8	HH238
4 Hose Separator		HH438
2 Hose Separator	1/2	HH212
4 Hose Separator		HH412



HH238



HH212



HH438



HH412

DOT Air Brake Hose Repair Fitting

- Kit for easy repair of rubber air brake hose
- One package contains two fittings and one hex installation tool, all in a clamshell
- One Package will repair two rubber air brake hoses
- Male fittings feature pre-applied sealant
- Meets DOT 106 SAE J1402 requirements

Hose I.D.	Part No.
3/8	FLP0100
1/2	FLP0101



FLP0101



MPT=Male Pipe Thread, FPT=Female Pipe Thread

Low Pressure Hose



Vacuum Hose		
Length (ft)	Hose	Part No.
50	7/64	VH76450
	5/32	VH53250
	7/32	VH73250



Fuel Line Hose		
Length (ft)	Hose	Part No.
25	3/16	H0570325R
	1/4	H0570425R
	5/16	H0570525R
	3/8	H0570625R
	7/16	H0570725R

Use 057B Hose Ends. Good for up to 10% Ethanol.

Glad Hands & Tank Valves

Description	Part No.
Service (Blue) Gladhand	W79850
Emergency (Red) Gladhand	W79851
Universal (Black) Gladhand	W76150



W79851

W76150

W79850

Glad Hand Seals & Accessories

Description	Part No.
Red-Emergency, Polyurethane	FLP0001
Blue-Service, Polyurethane	FLP0002
Black-Universal, Rubber	W14630
Black-Universal with Flap, Buna N	FLP0092
Seal Screen	FLP0098
"Pacifier" Glad Hand Seal	FLP0099



FLP0001



W14630



FLP0002



FLP0092



FLP0098



FLP0099



Steel Pipe Fittings – SCH. 80

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Forged Steel Pipe Fittings



- Class 3000 forged steel fittings or use with **Schedule 80 pipe**
- Use with air, water, oil, natural gas and steam
- Black finish
- Maximum Pressure: 3,000 lbs. at 72°F, meets ASME B16.11 & B1.20.1
- National pipe taper (NPT) threads
- Made in the USA



90° Elbow	
Pipe Size	Part No.
1/8	FS1018
1/4	FS1014
3/8	FS1038
1/2	FS1012
3/4	FS1034
1	FS101
1-1/4	FS10114
1-1/2	FS10112
2	FS102



90° Street Elbow	
Pipe Size	Part No.
1/8	FS3018
1/4	FS3014
3/8	FS3038
1/2	FS3012
3/4	FS3034
1	FS301
1-1/4	FS30114
1-1/2	FS30112
2	FS302



45° Elbow	
Pipe Size	Part No.
1/8	FS2018
1/4	FS2014
3/8	FS2038
1/2	FS2012
3/4	FS2034
1	FS201
1-1/4	FS20114
1-1/2	FS20112
2	FS202



Tee	
Pipe Size	Part No.
1/8	FS8018
1/4	FS8014
3/8	FS8038
1/2	FS8012
3/4	FS8034
1	FS801
1-1/4	FS80114
1-1/2	FS80112
2	FS802



Cap	
Pipe Size	Part No.
1/8	FS11018
1/4	FS11014
3/8	FS11038
1/2	FS11012
3/4	FS11034
1	FS1101
1-1/4	FS110114
1-1/2	FS110112
2	FS1102



Coupling	
Pipe Size	Part No.
1/8	FS13018
1/4	FS13014
3/8	FS13038
1/2	FS13012
3/4	FS13034
1	FS1301
1-1/4	FS130114
1-1/2	FS130112
2	FS13202



Reducer Coupling		
Pipe Size A	Pipe Size B	Part No.
1/4	1/8	FS5014x18
3/8	1/8	FS5038x18
	1/4	FS5038x14
1/2	1/8	FS5012x18
	1/4	FS5012x14
	3/8	FS5012x38
3/4	3/8	FS5034x38
	1/2	FS5034x12
1	1/2	FS501x12
	3/4	FS501x34
1-1/4	3/4	FS50114x34
	1	FS50114x1
1-1/2	1	FS50112x1
	1-1/4	FS50112x114
2	1-1/4	FS502x114
	1-1/2	FS502x112



Hex Bushing		
MPT	FPT	Part No.
1/4	1/8	FS7014x18
3/8	1/8	FS7038x18
	1/4	FS7038x14
1/2	1/8	FS7012x18
	1/4	FS7012x14
	3/8	FS7012x38
3/4	3/8	FS7034x38
	1/2	FS7034x12
1	1/2	FS701x12
	3/4	FS701x34
1-1/4	3/4	FS70114x34
	1	FS70114x1
1-1/2	1	FS70112x1
	1-1/4	FS70112x114
2	1-1/4	FS702x114
	1-1/2	FS702x112



Square Head Plug	
Pipe Size	Part No.
1/8	FS10018
1/4	FS10014
3/8	FS10038
1/2	FS10012
3/4	FS10034
1	FS1001
1-1/4	FS100114
1-1/2	FS100112
2	FS1002



Hex Head plug	
Pipe Size	Part No.
1/8	FS14018
1/4	FS14014
3/8	FS14038
1/2	FS14012
3/4	FS14034
1	FS1401
1-1/4	FS140114
1-1/2	FS140112
2	FS14202



Steel Pipe Fittings – SCH. 80

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Forged Steel Pipe Fittings



- Class 3000 forged steel fittings or use with **Schedule 80 pipe**
- Use with air, water, oil, natural gas and steam
- Black finish
- Maximum Pressure: 3,000 lbs. at 72°F, meets ASME B16.11 & B1.20.1
- National pipe taper (NPT) threads
- Made in the USA



Seamless Nipples								
Pipe Size A	Length	Part No.	Pipe Size A	Length	Part No.	Pipe Size A	Length	Part No.
1/8	Close	FS6018xCL	1/2	Close	FS6012xCL	1-1/4	Close	FS60114xCL
	1-1/2	FS6018x112		1-1/2	FS6012x112		1-1/2	FS60114x112
	2	FS6018x2		2	FS6012x2		2	FS60114x2
	2-1/2	FS6018x212		2-1/2	FS6012x212		2-1/2	FS60114x212
	3	FS6018x3		3	FS6012x3		3	FS60114x3
	3-1/2	FS6018x312		3-1/2	FS6012x312		3-1/2	FS60114x312
	4	FS6018x4		4	FS6012x4		4	FS60114x4
	4-1/2	FS6018x412		4-1/2	FS6012x412		4-1/2	FS60114x412
	5	FS6018x5		5	FS6012x5		5	FS60114x5
6	FS6018x6	6	FS6012x6	6	FS60114x6			
1/4	Close	FS6014xCL	3/4	Close	FS6034xCL	1-1/2	Close	FS60112xCL
	1-1/2	FS6014x112		1-1/2	FS6034x112		1-1/2	FS60112x112
	2	FS6014x2		2	FS6034x2		2	FS60112x2
	2-1/2	FS6014x212		2-1/2	FS6034x212		2-1/2	FS60112x212
	3	FS6014x3		3	FS6034x3		3	FS60112x3
	4	FS6014x4		4	FS6034x4		4	FS60112x4
	4-1/2	FS6014x412		4-1/2	FS6034x412		4-1/2	FS60112x412
	5	FS6014x5		5	FS6034x5		5	FS60112x5
	6	FS6014x6		6	FS6034x6		6	FS60112x6
3/8	Close	FS6038xCL	1	Close	FS601xCL	2	Close	FS602xCL
	1-1/2	FS6038x112		1-1/2	FS601x112		1-1/2	FS602x112
	2	FS6038x2		2	FS601x2		2	FS602x2
	2-1/2	FS6038x212		2-1/2	FS601x212		2-1/2	FS602x212
	3	FS6038x3		3	FS601x3		3	FS602x3
	3-1/2	FS6038x312		3-1/2	FS601x312		3-1/2	FS602x312
	4	FS6038x4		4	FS601x4		4	FS602x4
	4-1/2	FS6038x412		4-1/2	FS601x412		4-1/2	FS602x412
	5	FS6038x6		5	FS601x5		5	FS602x5
6	FS6038x6	6	FS601x6	6	FS602x6			



Schedule 40 Black & Galvanized Pipe Fittings

- Class 150 psi
- Steam 150 psi
- Liquid and Gas 300 psi

Note: Plugs are not identified by pressure class.



45° Elbow Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP2018	GP2018
1/4	BP2014	GP2014
3/8	BP2038	GP2038
1/2	BP2012	GP2012
3/4	BP2034	GP2034
1	BP201	GP201
1-1/4	BP20114	GP20114
1-1/2	BP20112	GP20112
2	BP202	GP202

90° Elbow Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP1018	GP1018
1/4	BP1014	GP1014
3/8	BP1038	GP1038
1/2	BP1012	GP1012
3/4	BP1034	GP1034
1	BP101	GP101
1-1/4	BP10114	GP10114
1-1/2	BP10112	GP10112
2	BP102	GP102



90° Street Elbow Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP3018	GP3018
1/4	BP3014	GP3014
3/8	BP3038	GP3038
1/2	BP3012	GP3012
3/4	BP3034	GP3034
1	BP301	GP301
1-1/4	BP30114	GP30114
1-1/2	BP30112	GP30112
2	BP302	GP302

45° Street Elbow Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP4018	GP4018
1/4	BP4014	GP4014
3/8	BP4038	GP4038
1/2	BP4012	GP4012
3/4	BP4034	GP4034
1	BP401	GP401
1-1/4	BP40114	GP40114
1-1/2	BP40112	GP40112
2	BP402	GP402



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Steel Pipe Fittings – SCH. 40



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Reducer Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/4 × 1/8	BP5014x18	GP5014x18
3/8 × 1/8	BP5038x18	GP5038x18
3/8 × 1/4	BP5038x14	GP5038x14
1/2 × 3/8	BP5012x38	GP5012x38
3/4 × 1/2	BP5034x12	GP5034x12
1 × 1/2	BP501x12	GP501x12
1 × 3/4	BP501x34	GP501x34
1-1/4 × 1	BP50114x1	GP50114x1
1-1/2 × 1-1/4	BP50112x114	GP50112x114
2 × 1-1/2	BP502x112	GP502x112



45° Y-Branch Class 150		
Size (in)	Black Pipe	Galvanized Pipe
3/8	BP8138	GP8138
1/2	BP8112	GP8112
3/4	BP8134	GP8134
1	BP811	GP811
1-1/4	BP81114	GP81114
1-1/2	BP81112	GP81112
2	BP812	GP812



Tee Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP8018	GP8018
1/4	BP8014	GP8014
3/8	BP8038	GP8038
1/2	BP8012	GP8012
3/4	BP8034	GP8034
1	BP801	GP801
1-1/4	BP80114	GP80114
1-1/2	BP80112	GP80112
2	BP802	GP802
3/8 × 3/8 × 1/4	BP8038x38x14	GP8038x38x14
1/2 × 1/2 × 3/8	BP8012x12x38	GP8012x12x38
3/4 × 1/2 × 1/2	BP8034x12x12	GP8034x12x12
3/4 × 1/2 × 3/4	BP8034x12x34	GP8034x12x34



Ground Joint Union Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP9018	GP9018
1/4	BP9014	GP9014
3/8	BP9038	GP9038
1/2	BP9012	GP9012
3/4	BP9034	GP9034
1	BP901	GP901
1-1/4	BP90114	GP90114
1-1/2	BP90112	GP90112
2	BP902	GP902



Cap Class 150		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP11018	GP11018
1/4	BP11014	GP11014
3/8	BP11038	GP11038
1/2	BP11012	GP11012
3/4	BP11034	GP11034
1	BP1101	GP1101
1-1/4	BP110114	GP110114
1-1/2	BP110112	GP110112
2	BP1102	GP1102



Regular Plug		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP10018	GP10018
1/4	BP10014	GP10014
3/8	BP10038	GP10038
1/2	BP10012	GP10012
3/4	BP10034	GP10034
1	BP1001	GP1001
1-1/4	BP100114	GP100114
1-1/2	BP100112	GP100112
2	BP1002	GP1002

Note: Plugs are not identified by pressure class.



Merchant Steel Coupling		
Size (in)	Black Pipe	Galvanized Pipe
1/8	BP13018	GP13018
1/4	BP13014	GP13014
3/8	BP13038	GP13038
1/2	BP13012	GP13012
3/4	BP13034	GP13034
1	BP1301	GP1301
1-1/4	BP130114	GP130114
1-1/2	BP130112	GP130112
2	BP1302	GP1302



Hex Bushing		
Size (in)	Black Pipe	Galvanized Pipe
1/4 × 1/8	BP7014x18	GP7014x18
3/8 × 1/8	BP7038x18	GP7038x18
3/8 × 1/4	BP7038x14	GP7038x14
1/2 × 1/8	BP7012x18	GP7012x18
1/2 × 1/4	BP7012x14	GP7012x14
1/2 × 3/8	BP7012x38	GP7012x38
3/4 × 1/8	BP7034x18	GP7034x18
3/4 × 1/4	BP7034x14	GP7034x14
3/4 × 3/8	BP7034x38	GP7034x38
3/4 × 1/2	BP7034x12	GP7034x12
1 × 1/8	BP701x18	GP701x18
1 × 1/4	BP701x14	GP701x14
1 × 3/8	BP701x38	GP701x38
1 × 1/2	BP701x12	GP701x12
1 × 3/4	BP701x34	GP701x34
1-1/4 × 3/8	BP70114x38	GP70114x38
1-1/4 × 3/4	BP70114x34	GP70114x34
1-1/4 × 1	BP70114x1	GP70114x1
1-1/2 × 1	BP70112x1	GP70112x1
1-1/2 × 1-1/4	BP70112x114	GP70112x114
2 × 1	BP702x1	GP702x1
2 × 1-1/4	BP702x114	GP702x114
2 × 1-1/2	BP702x112	GP702x112

Note: Bushings are not identified by pressure class.





Steel Pipe Fittings – SCH. 40



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Welded Steel Nipple		
Size (in)	Black Pipe	Galvanized Pipe
1/8 × Close	BP6018xCL	GP6018xCL
1/8 × 1-1/2	BP6018x112	GP6018x112
1/8 × 2	BP6018x2	GP6018x2
1/8 × 2-1/2	BP6018x212	GP6018x212
1/8 × 3	BP6018x3	GP6018x3
1/8 × 3-1/2	BP6018x312	GP6018x312
1/8 × 4	BP6018x4	GP6018x4
1/8 × 4-1/2	BP6018x412	GP6018x412
1/8 × 5	BP6018x5	GP6018x5
1/8 × 6	BP6018x6	GP6018x6
1/4 × Close	BP6014xCL	GP6014xCL
1/4 × 1-1/2	BP6014x112	GP6014x112
1/4 × 2	BP6014x2	GP6014x2
1/4 × 2-1/2	BP6014x212	GP6014x212
1/4 × 3	BP6014x3	GP6014x3
1/4 × 3-1/2	BP6014x312	GP6014x312
1/4 × 4	BP6014x4	GP6014x4
1/4 × 4-1/2	BP6014x412	GP6014x412
1/4 × 5	BP6014x5	GP6014x5
1/4 × 6	BP6014x6	GP6014x6
3/8 × Close	BP6038xCL	GP6038xCL
3/8 × 1-1/2	BP6038x112	GP6038x112
3/8 × 2	BP6038x2	GP6038x2
3/8 × 2-1/2	BP6038x212	GP6038x212
3/8 × 3	BP6038x3	GP6038x3
3/8 × 3-1/2	BP6038x312	GP6038x312
3/8 × 4	BP6038x4	GP6038x4
3/8 × 4-1/2	BP6038x412	GP6038x412
3/8 × 5	BP6038x5	GP6038x5
3/8 × 6	BP6038x6	GP6038x6
1/2 × Close	BP6012xCL	GP6012xCL
1/2 × 1-1/2	BP6012x112	GP6012x112
1/2 × 2	BP6012x2	GP6012x2
1/2 × 2-1/2	BP6012x212	GP6012x212
1/2 × 3	BP6012x3	GP6012x3
1/2 × 3-1/2	BP6012x312	GP6012x312
1/2 × 4	BP6012x4	GP6012x4
1/2 × 4-1/2	BP6012x412	GP6012x412
1/2 × 5	BP6012x5	GP6012x5
1/2 × 6	BP6012x6	GP6012x6
3/4 × Close	BP6034xCL	GP6034xCL
3/4 × 1-1/2	BP6034x112	GP6034x112

Welded Steel Nipple		
Size (in)	Black Pipe	Galvanized Pipe
3/4 × 2	BP6034x2	GP6034x2
3/4 × 2-1/2	BP6034x212	GP6034x212
3/4 × 3	BP6034x3	GP6034x3
3/4 × 3-1/2	BP6034x312	GP6034x312
3/4 × 4	BP6034x4	GP6034x4
3/4 × 4-1/2	BP6034x412	GP6034x412
3/4 × 5	BP6034x5	GP6034x5
3/4 × 6	BP6034x6	GP6034x6
1 × Close	BP601xCL	GP601xCL
1 × 2	BP601x2	GP601x2
1 × 2-1/2	BP601x212	GP601x212
1 × 3	BP601x3	GP601x3
1 × 3-1/2	BP601x312	GP601x312
1 × 4	BP601x4	GP601x4
1 × 5	BP601x5	GP601x5
1 × 6	BP601x6	GP601x6
1-1/4 × Close	BP60114xCL	GP60114xCL
1-1/4 × 2	BP60114x2	GP60114x2
1-1/4 × 2-1/2	BP60114x212	GP60114x212
1-1/4 × 3	BP60114x3	GP60114x3
1-1/4 × 3-1/2	BP60114x312	GP60114x312
1-1/4 × 4	BP60114x4	GP60114x4
1-1/4 × 4-1/2	BP60114x412	GP60114x412
1-1/4 × 5	BP60114x5	GP60114x5
1-1/4 × 6	BP60114x6	GP60114x6
1-1/2 × Close	BP60112xCL	GP60112xCL
1-1/2 × 2	BP60112x2	GP60112x2
1-1/2 × 2-1/2	BP60112x212	GP60112x212
1-1/2 × 3	BP60112x3	GP60112x3
1-1/2 × 3 1/2	BP60112x312	GP60112x312
1-1/2 × 4	BP60112x4	GP60112x4
1-1/2 × 4-1/2	BP60112x412	GP60112x412
1-1/2 × 5	BP60112x5	GP60112x5
1-1/2 × 6	BP60112x6	GP60112x6
2 × Close	BP602xCL	GP602xCL
2 × 2-1/2	BP602x212	GP602x212
2 × 3	BP602x3	GP602x3
2 × 3-1/2	BP602x312	GP602x312
2 × 4	BP602x4	GP602x4
2 × 4-1/2	BP602x412	GP602x412
2 × 5	BP602x5	GP602x5
2 × 6	BP602x6	GP602x6



Copper Tubing, Soft Annealed Seamless 50' Coils

Size (in)	Wall Thickness	Part No.
1/8	0.03	CPT18
3/16	0.03	CPT316
1/4	0.03	CPT14
5/16	0.032	CPT516
3/8	0.032	CPT38
1/2	0.032	CPT12
5/8	0.035	CPT58
3/4	0.035	CPT34



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Hose Clamps

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Full & Micro Size All Stainless Steel Clamps



For chemical, marine, food processing, dairy, automotive, electrical and plumbing industries.

Clamp Size	Minimum Diameter (in)	Maximum Diameter (in)	Nominal Diameter (in)	Part No.
004	7/32	5/8	1/4	6206004*
006	5/16	7/8	1/2	6206006*
006	3/8	7/8	1/2	6204006
008	7/16	1	9/16	6204008
010	9/16	1-1/16	5/8	6204010
012	9/16	1-1/4	3/4	6204012
016	11/16	1-1/2	1	6204016
020	3/4	1-3/4	1-1/4	6204020
024	1-1/16	2	1-1/2	6204024
028	1-5/16	2-1/4	1-3/4	6204028
032	1-9/16	2-1/2	2	6204032
036	1-13/16	2-3/4	2-1/4	6204036
040	2-1/16	3	2-1/2	6204040
044	2-5/16	3-1/4	2-3/4	6204044
048	2-9/16	3-1/2	3	6204048
052	2-13/16	3-3/4	3-1/4	6204052
056	3-1/16	4	3-1/2	6204056
064	3-9/16	4-1/2	4	6204064
072	4-1/16	5	4-1/2	6204072
080	4-5/8	5-1/2	5	6204080
088	4-3/32	6	5-1/2	6204088
096	4-1/2	6-1/2	6	6204096
104	6	7	6-1/2	6204104



Our best selling hose clamps!

Stainless

*Micro Size Clamp

Stainless Steel Hose Clamp Assortment

Part No: HCRK

For details, see assortments at end of section





Full & Micro Size Partial Stainless Steel Clamps

General purpose clamps. 300 Series stainless steel band and housing with a steel case-hardened, zinc-plated and chromate-dipped screw.



Clamp Size	Minimum Diameter (in)	Maximum Diameter (in)	Nominal Diameter (in)	Part No.
004	7/32	5/8	1/4	6205004*
006	5/16	7/8	1/2	6205006*
006	3/8	7/8	1/2	6203006
008	7/16	1	9/16	6203008
010	9/16	1-1/16	5/8	6203010
012	9/16	1-1/4	3/4	6203012
016	11/16	1-1/2	1	6203016
020	3/4	1-3/4	1-1/4	6203020
024	1-1/6	2	1-1/2	6203024
028	1-5/16	2-1/4	1-3/4	6203028
032	1-9/16	2-1/2	2	6203032
036	1-13/16	2-3/4	2-1/4	6203036
040	2-1/16	3	2-1/2	6203040
044	2-5/16	3-1/4	2-3/4	6203044
048	2-9/16	3-1/2	3	6203048
052	2-13/16	3-3/4	3-1/4	6203052
056	3-1/16	4	3-1/2	6203056
064	3-9/16	4-1/2	4	6203064
072	4-1/16	5	4-1/2	6203072
080	4-5/8	5-1/2	5	6203080
088	4-3/32	6	5-1/2	6203088
096	4-1/2	6-1/2	6	6203096
104	6	7	6-1/2	6203104

*Micro Size Clamp





Hose Clamps



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Make-A-Clamp – Stainless Steel



Minimize “down” time. Minimize repair time. Minimize your hose clamp inventory in sizes, dollars and shelf space. This is a maintenance “clamp system” in a box including banding and/or fasteners. By simply cutting off a piece of banding from a continuous roll, you can make any size 100% stainless steel worm-drive clamp from 3" diameter on up.

Everything you need for small clamp jobs. 8-1/2" ft band, 3 fasteners, 1 extender. This kit covers all sizes from 3 in. to 2-1/2 ft. Fits in tool box. Perfect for small jobs, field assignments, or to keep on location or in vehicles for clamping emergencies.

- Use for temporary or permanent repairs for securing, mounting, strapping, clamping and positioning.
- Hang, strap, or secure anything to poles, beams, pipes, etc.
- Hold or clamp units together during welding or assembly.
- Use for all conventional clamping jobs.

Description	Part No.
Make-A-Clamp	6204000



Silicone Hose Liner Clamps Stainless Steel



With an extend inner liner, covering the worm-gear slots, liner clamps provide a true concentric seal and provide maximum protection to expensive silicone and other soft hoses. 100% stainless steel—important because silicone hose can last up to 10 years or more, and clamps that are not stainless can rust out in less than 2 years.



Clamp Size	Minimum Diameter (in)	Maximum Diameter (in)	Part No.
006	7/16	25/32	6209406
008	1/2	29/32	6209408
010	9/16	1-1/16	6209410
012	11/16	1-1/4	6209412
016	13/16	1-1/2	6209416
020	13/16	1-3/4	6209420
024	1-1/16	2	6209424
028	1-5/16	2-1/4	6209428
032	1-9/16	2-1/2	6209432
040	2-1/16	3	6209440
048	2-9/16	3-1/2	6209448
064	3-9/16	4-1/2	6209464





**MADE IN
USA**

Constant Torque Hose Clamps

A revolutionary clamp that reacts to changes in hose systems by actually increasing or decreasing its own diameter as the system expands or contracts. Used for leakage or rupture problems because of "cold flow" or changes in environmental or operational temperatures.

Aero-Seal construction for use on small diameter applications-torque rated 30-70 in./lbs. Heavy-duty construction for use on large diameter applications-torque rated 50-125 in./lbs.



Range (in)	Part No.
9/16 to 1-1/16	HCB110
11/16 to 1-1/4	HCB112
13/16 to 1-1/2	HCB116
13/16 to 1-3/4	HCB120
1-1/16 to 2	HCB124
1-3/4 to 2-5/8	HCB125
2-1/4 to 3-1/8	HCB130
2-3/4 to 3-5/8	HCB135
3-1/4 to 4-1/8	HCB140

**MADE IN
USA**

Spring-Loaded T-Bolt Hose Clamps

Heavy-duty assembling of hose ducting connections and tubing. For vehicle, construction, military and commercial application. Carbon steel bolt and nut.



Range (in)	Part No.
3-1/16 to 3-3/8	HCB4306
3-9/16 to 3-7/8	HCB4356
4-1/16 to 4-3/8	HCB4406
4-9/16 to 4-7/8	HCB4456

**MADE IN
USA**

High-Torque Hose Clamps

The strongest worm-gear clamp made in the world today. Withstands more than 4 times the SAE torque requirements for Type F worm-drive clamps. Eight screw threads are engaged in the band simultaneously for incredible torquing drive (over 200 in./lbs.), sealing pressure and vibration resistance.



Range (in)	Part No.
3-3/4 to 4-5/8	HCB245
4-1/4 to 5-1/8	HCB250
4-3/4 to 5-5/8	HCB255
5-1/4 to 6-1/8	HCB260
5-3/4 to 6-5/8	HCB265
7-1/4 to 8-1/8	HCB280
8-1/4 to 9-1/8	HCB290



Hose Clamps

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Hose Clamps



Diameter Range				Part No.
Minimum		Maximum		
in	mm	in	mm	
7/16	11	11/16	17	CMA22
1/2	13	3/4	19	CMA24
9/16	14	13/16	21	CMA26
11/16	17	15/16	23.8	CMA30
13/16	21	1-1/16	27	CMA34
15/16	23.8	1-3/16	30	CMA38
61/64	24.2	1-3/8	35	CMA44
1	25	1-7/16	37	CMA46
1-3/64	27	1-1/2	38	CMA48
61/64	24.2	1-1/2	38	CMA4448
1-24/64	34	1-3/4	44	CMA56
1-3/8	35	1-13/16	46	CMA58
1-5/8	41	2-1/16	52	CMA66
1-21/64	34	2-1/16	52	CMA5666
1-7/8	48	2-5/16	59	CMA74
2-1/8	54	2-9/16	65	CMA82
2-13/32	61	2-27/32	72	CMA91
1-7/8	48	2-27/32	72	CMA7491
2-5/8	67	3-1/16	73	CMA98
2-29/32	71	3-11/32	85	CMA107
3-1/8	79	3-9/16	90	CMA114
2-5/8	67	3-9/16	90	CMA98114

Diameter Range				Part No.
Minimum		Maximum		
in	mm	in	mm	
7/16	11	25/32	20	CMA10
11/16	17	1-1/4	32	CMA11
1-1/16	27	2	51	CMA12
1-13/16	46	2-3/4	70	CMA13
2-9/16	65	3-1/2	89	CMA14
3-5/16	84	4-1/4	108	CMA15
4-1/8	105	7	178	CMA16



Thumb (Wing) Screw Hose Clamp AN737TW

Primarily an aircraft application clamp.



Slotted Hex Head Screw Hose Clamp MIL-C-35842

Primarily a military vehicle and ordinance clamp. Low pressure, type "F".

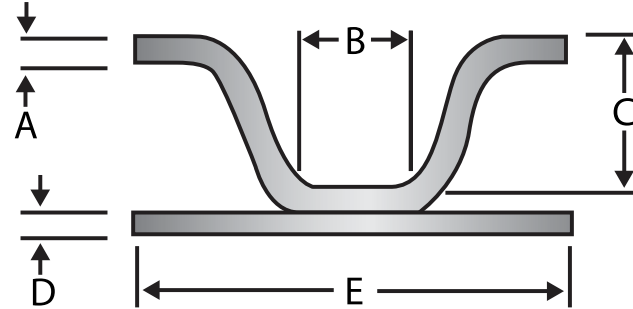




T-Bolt V-Band Flange Joint Clamps



T-Bolt V-Band clamps provide fast, secure coupling for connecting flanged joints. The V-Band clamp features high strength and positive sealing integrity.



Nominal Diameter (in)	A (in)	B (in)	C (in)	D (in)	E (in)	Part No.
3.21	0.05	0.262	0.141	0.035	0.75	HCB5321
3.82	0.077	0.207	0.281	0.04	0.875	HCB5382
3.88	0.05	0.4	0.281	0.04	0.875	HCB5388
4.06	0.077	0.239	0.281	0.05	0.875	HCB5406
4.19	0.05	0.4	0.281	0.04	0.875	HCB5419
4.5	0.05	0.262	0.141	0.035	0.75	HCB5450
4.61	0.05	0.156	0.218	0.035	0.75	HCB5461
4.75	0.05	0.4	0.281	0.04	0.875	HCB5475
5.25	0.05	0.262	0.141	0.035	0.75	HCB5525
5.88	0.05	0.4	0.281	0.04	0.875	HCB5588
5.88	0.05	0.4	0.281	n/a	n/a	HCB5881





Hose Clamps

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Two Ear Hose Clamps

This is a medium pressure clamp and is widely used for maintenance and OEM applications. SAE 1008/1010 (DIN 1.0338) zinc plated carbon steel. Clamps “breathe” and adapt to the expansion and contraction of hose affected by thermodynamics or aging—no need to retighten. Provides a tamper-proof seal without damage to the hose.

Nominal Diameter (in)	No. on clamp size ref. (mm)	Range open/closed	Band Width (in)	Part Number
5/32	4.1	.122 – .161	1/8	OC532
3/16	5	.134 – .197	3/16	OC316
1/4	7	.197 – .276	1/4	OC14
5/16	9	.276 – .354	1/4	OC516
3/8	11	.319 – .433	1/4	OC38
7/16	13	.435 – .512	1/4	OC716
1/2	15	.492 – .591	1/4	OC12
9/16	17	.551 – .669	9/32	OC916
5/8	18	.591 – .709	5/16	OC58
3/4	20	.638 – .787	11/32	OC34
7/8	23	.748 – .906	11/32	OC78
1	27	.886 – 1.063	13/32	OC1
1-1/16	28	.945 – 1.102	13/32	OC116
1-1/8	31	1.035 – 1.221	13/32	OC118
1-5/16	34	1.154 – 1.339	13/32	OC1516
1-7/16	37	1.260 – 1.457	13/32	OC1716
1-1/2	40	1.378 – 1.693	13/32	OC112



OC1516
Two Ear Hose Clamp

Pincer Tools

The dual purpose Side Jaw Pincer design allows clamps to be applied or removed in confined areas with pincers held parallel to the hose. It may also be used like Standard Jaw Pincers.

Jaw Pincer Tool	Part No.
Standard	OCSTAND
Side	OCSIDE
Narrow	OCNARROW



OCSTAND
Standard Pincer Tool



OCSIDE
Side Pincer Tool



Grease Fittings

Grease Fittings

Thick-wall construction for strength. Made of high-grade steel, case hardened and zinc plated for greatest resistance to nicks, corrosion and wear. Conforms to SAE lubrication specifications.



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Grease Fittings - Inch			
Thread	Description	Industry No.	Part No.
1/4" Pipe	7/8" Straight	1627-B	GF1410PT
	67-1/2°	1629-B	GF1467PT
1/4" - 28 Taper	Short, Straight	1641-B	GF141S
	Long, Straight	1652-B	GF142S
	1-5/8" Long, Straight	3014-B	GF3014B
1/8" Pipe	90°	1613-B	GF1890
	65°	1612-B	GF1865
	45°	1688-B	GF1845
	30°	1611-B	GF1830
	1-3/4", Straight	1669-B	GF183S
	1-1/4", Straight	1607-B	GF182S
	11/16", Straight	1610-BL	GF181S
	Straight, Female	1618-B	GF180F
1/4" - 28 Taper	45°	1637-BI	GF1445
	90°	1911-BI	GF1490
3/16"	Drive type	1728-B	GF316D
1/4"	Drive type	1743-B	GF14D
5/16"	Drive type	1608-B	GF516D

Inch





Grease Fittings

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Grease Fittings - Metric			
Thread	Description	Industry No.	Part No.
10 mm × 1 mm	Straight	2109	GF1010M
	45°	MGF10145	GF1045M
	90°	MGF10190	GF1090M
6 mm × 1 mm	Straight	2106	GF610M
	45°	2107	GF645M
	90°	2108	GF690M
8 mm × 1 mm	Straight	2103	GF810M
	45°	MGF8145	GF845M
	90°	2105	GF890M

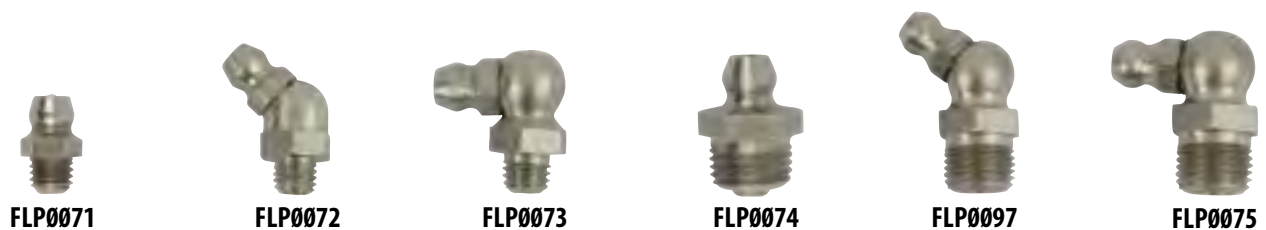
Metric

Stainless Steel Grease Fittings

- Corrosion resistant for marine and industrial environments.
- Great temperature range – sub-zero to 600°F.
- All stainless steel fittings have two notches for easy identification.

Stainless Steel Grease Fittings - Inch Fractional					
Thread	Configuration	Hex (in)	O.A.L. (in)	Industry No.	Part No.
1/4-28 taper	Straight	5/16	17/32	1966S	FLP0071
	45°	3/8	13/16	1637S	FLP0072
	90°	3/8	3/4	1911S	FLP0073
1/8 pipe	Straight	7/16	3/4	1961S	FLP0074
	45°	7/16	15/16	1688S	FLP0097
	90°	7/16	7/8	1613S	FLP0075

Stainless - Inch





GF610MSS GF645MSS GF690MSS GF810MSS GF845MSS GF890MSS GF1010MSS GF1045MSS GF1090MSS

Stainless Steel Grease Fittings - Metric				
Thread	Configuration	Hex (mm)	O.A.L. (mm)	Part No.
M6-1.00	Straight	7	13.2	GF610MSS
	45°	9	22.6	GF645MSS
	90°	9	18	GF690MSS
M8-1.00	Straight	9	14.9	GF810MSS
	45°	9	22.4	GF845MSS
	90°	9	18	GF890MSS
M10-1.00	Straight	11	15.2	GF1010MSS
	45°	11	23.1	GF1045MSS
	90°	11	19	GF1090MSS

**Stainless
- Metric**



Relief Fitting

Used on gearbox housings & bearings (king pins, universal joints etc.) where excessive lubrication pressure is not desired. Steel.



Relief Pressure (PSI)		Thread	Industry No.	Part No.
Min	Max			
1	5	1/8 pipe	47200	FLP0076



Grease Fittings



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Grease Fitting Adapters

Configuration	Male	Female	Part No.
Straight	1/4"-28 Taper	1/8" FPT	GFA1418S
45°	1/4"-28 Taper	1/8" FPT	GFA141845
45°	1/8" MPT	1/8" FPT	GFA1845
90°	1/4"-28 Taper	1/8" FPT	GFA141890
90°	1/8" MPT	1/8" FPT	GFA1890



GFA1418S



GFA141845



GFA1845



GFA141890



GFA1890

Grease Fitting Caps

Color	Part No.
Red	FLP0077
Green	FLP0078
Yellow	FLP0079
Blue	FLP0080
Black	FLP0081
White	FLP0082



Ball Valves

- Full-port valve, threaded ends
- Forged brass body & ball
- 150 lbs. Rating/Steam
- 600 lbs. Rating/WOG (Water, Oil, Gas)
- UL Approval 1/4NPS/8DN - 2NPS/50 DN. 870 PSI, Temperature Rating -40°F-400°F.

Description	Part No.
1/4" D-NPT, .354 DN	BV101
3/8" D-NPT, .394 DN	BV102
1/2" D-NPT, .591 DN	BV103
3/4" D-NPT, .787 DN	BV104
1" D-NPT, .984 DN	BV105
1-1/4" D-NPT, 1.26 DN	BV106
1-1/2" D-NPT, 1.575 DN	BV107
2" D-NPT, .394 DN	BV108

See our Eaton/Weatherhead Brass catalog for additional valves.

Drain Cocks

MPT	Part No.
1/8	135
1/4	145



Tank Valve

Description	Part No.
Air Tank Drain Valve (24" cable)	142124





BUNA-N O-Rings

-40°F to 248°F, 70 Durometer

Thick (in)	I.D. (in)	O.D. (in)	Part No.	
3/64	3/64	9/64	OR002	
1/16	1/16	3/16	OR003	
	5/64	13/64	OR004	
	3/32	7/32	OR005	
	1/8	1/4	OR006	
	5/32	9/32	OR007	
	3/16	5/16	OR008	
	7/32	11/32	OR009	
	1/4	3/8	OR010	
	5/16	7/16	OR011	
	3/8	1/2	OR012	
	7/16	9/16	OR013	
	1/2	5/8	OR014	
	9/16	11/16	OR015	
	5/8	3/4	OR016	
	11/16	13/16	OR017	
	3/4	7/8	OR018	
	13/16	15/16	OR019	
	7/8	1	OR020	
	15/16	1-1/16	OR021	
	1	1-1/8	OR022	
	1-1/16	1-3/16	OR023	
	1-1/8	1-1/4	OR024	
	3/32	3/8	9/16	OR110
		7/16	5/8	OR111
1/2		11/16	OR112	
9/16		3/4	OR113	
5/8		13/16	OR114	
11/16		7/8	OR115	
3/4		15/16	OR116	
13/16		1	OR117	
7/8		1-1/16	OR118	
15/16		1-1/8	OR119	
1		1-3/16	OR120	
1-1/16		1-1/4	OR121	
1-1/8		1-5/16	OR122	
1-3/16		1-3/8	OR123	
1-1/4		1-7/16	OR124	
1-5/16		1-1/2	OR125	

Thick (in)	I.D. (in)	O.D. (in)	Part No.	
1/8	3/4	1	OR210	
	13/16	1-1/16	OR211	
	7/8	1-1/8	OR212	
	15/16	1-3/16	OR213	
	1	1-1/4	OR214	
	1-1/16	1-5/16	OR215	
	1-1/8	1-3/8	OR216	
	1-3/16	1-7/16	OR217	
	1-1/4	1-1/2	OR218	
	1-5/16	1-9/16	OR219	
	1-3/8	1-5/8	OR220	
	1-7/16	1-11/16	OR221	
	1-1/2	1-3/4	OR222	
	3-1/8	3-3/8	OR235	
	3-1/4	3-1/2	OR236	
	3-3/8	3-5/8	OR237	
	3-1/2	3-3/4	OR238	
	3-5/8	3-7/8	OR239	
	3/16	1-1/2	1-7/8	OR325
		1-5/8	2	OR326
1-3/4		2-1/8	OR327	
1-7/8		2-1/4	OR328	
2		2-3/8	OR329	
2-1/8		2-1/2	OR330	
2-1/4		2-5/8	OR331	
2-3/8		2-3/4	OR332	
2-1/2		2-7/8	OR333	
2-5/8		3	OR334	
2-3/4		3-1/8	OR335	
2-7/8		3-1/4	OR336	



For replacement O-Rings on steel adapters, refer to the Eaton/Weatherhead Hose Catalog under adapters.





O-Rings



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O-Rings – Viton®

All Viton® O-Rings temperature range -13°F to 392°F, 75 Durometer.

Thick (in)	I.D. (in)	O.D. (in)	Part No.
1/32	3/64	9/64	ORV002
1/16	1/16	3/16	ORV003
	5/64	13/64	ORV004
	3/32	7/32	ORV005
	1/8	1/8	ORV006
	5/32	9/32	ORV007
	3/16	5/16	ORV008
	7/32	11/32	ORV009
	1/4	3/8	ORV010
	5/16	7/16	ORV011
	3/8	1/2	ORV012
	7/16	9/16	ORV013
	1/2	5/8	ORV014
	9/16	11/16	ORV015
	5/8	3/4	ORV016
	11/16	13/16	ORV017
	3/4	7/8	ORV018
	13/16	15/16	ORV019
	7/8	1	ORV020
	15/16	1-1/16	ORV021
	1	1-1/8	ORV022
1-1/16	1-3/16	ORV023	
1-1/8	1-1/4	ORV024	
3/32	3/8	9/16	ORV110
	7/16	5/8	ORV111
	1/2	11/16	ORV112
	9/16	3/4	ORV113
	5/8	13/16	ORV114
	11/16	7/8	ORV115
	3/4	15/16	ORV116
	13/16	1	ORV117
	7/8	1-1/16	ORV118
	15/16	1-1/8	ORV119
	1	1-3/16	ORV120
	1-1/16	1-1/4	ORV121
	1-1/8	1-5/16	ORV122
	1-3/16	1-3/8	ORV123
1-1/4	1-7/16	ORV124	
1-5/16	1-1/2	ORV125	

Thick (in)	I.D. (in)	O.D. (in)	Part No.
1/8	3/4	1	ORV210
	13/16	1-1/16	ORV211
	7/8	1-1/8	ORV212
	15/16	1-3/16	ORV213
	1	1-1/4	ORV214
	1-1/16	1-5/16	ORV215
	1-1/8	1-3/8	ORV216
	1-3/16	1-7/16	ORV217
	1-1/4	1-1/2	ORV218
	1-5/16	1-9/16	ORV219
	1-3/8	1-5/8	ORV220
	1-7/16	1-11/16	ORV221
	1-1/2	1-3/4	ORV222
	3-3/8	3-3/8	ORV235
	3-1/2	3-1/2	ORV236
	3-5/8	3-5/8	ORV237
	3-3/4	3-3/4	ORV238
	3-7/8	3-7/8	ORV239
	3/16	1-1/2	1-7/8
1-5/8		2	ORV326
1-3/4		2-1/8	ORV327
1-7/8		2-1/4	ORV328
2		2-3/8	ORV329
2-1/8		2-1/2	ORV330
2-1/4		2-5/8	ORV331
2-3/8		2-3/4	ORV332
2-1/2		2-7/8	ORV333
2-5/8		3	ORV334
2-3/4		3-1/8	ORV335
2-7/8	3-1/4	ORV336	



BUNA-N O-Rings – Metric
-40°F to 248°F, 70 Durometer

Thick (mm)	I.D. (mm)	O.D. (mm)	Part No.	Thick (mm)	I.D. (mm)	O.D. (mm)	Part No.
1.0	2.0	4.0	ORM1.0x2.0	2.4	4.3	9.1	ORM2.4x4.3
	3.0	5.0	ORM1.0x3.0		5.3	10.1	ORM2.4x5.3
	4.0	6.0	ORM1.0x4.0		7.6	12.4	ORM2.4x7.6
	5.0	7.0	ORM1.0x5.0		8.3	13.1	ORM2.4x8.3
	6.0	8.0	ORM1.0x6.0	2.5	8.0	13.0	ORM2.5x8.0
	10.0	12.0	ORM1.0x10.0		10.0	15.0	ORM2.5x10.0
	15.0	17.0	ORM1.0x15.0		11.0	16.0	ORM2.5x11.0
1.5	5.0	8.0	ORM1.5x5.0		12.0	17.0	ORM2.5x12.0
	6.5	9.5	ORM1.5x6.5		13.0	18.0	ORM2.5x13.0
	9.0	12.0	ORM1.5x9.0		14.0	19.0	ORM2.5x14.0
	13.0	16.0	ORM1.5x13.0		16.0	21.0	ORM2.5x16.0
	14.0	17.0	ORM1.5x14.0		17.0	22.0	ORM2.5x17.0
	16.0	19.0	ORM1.5x16.0		18.0	23.0	ORM2.5x18.0
	25.0	28.0	ORM1.5x25.0		19.0	24.0	ORM2.5x19.0
1.6	3.1	6.3	ORM1.6x3.1	20.0	25.0	ORM2.5x20.0	
	4.1	7.3	ORM1.6x4.1	3.0	9.0	15.0	ORM3.0x9.0
	7.1	10.3	ORM1.6x7.1		10.0	16.0	ORM3.0x10.0
	9.1	12.3	ORM1.6x9.1		11.0	17.0	ORM3.0x11.0
	10.1	4.3	ORM1.6x10.1		19.0	25.0	ORM3.0x19.0
	13.1	16.3	ORM1.6x13.1		20.0	26.0	ORM3.0x20.0
2.0	3.0	7.0	ORM2.0x3.0		22.0	28.0	ORM3.0x22.0
	4.0	8.0	ORM2.0x4.0		24.0	30.0	ORM3.0x24.0
	5.0	9.0	ORM2.0x5.0		25.0	31.0	ORM3.0x25.0
	6.0	10.0	ORM2.0x6.0		27.0	33.0	ORM3.0x27.0
	7.0	11.0	ORM2.0x7.0		28.0	34.0	ORM3.0x28.0
	8.0	12.0	ORM2.0x8.0		30.0	36.0	ORM3.0x30.0
	9.0	13.0	ORM2.0x9.0		32.0	38.0	ORM3.0x32.0
	10.0	14.0	ORM2.0x10.0		33.0	39.0	ORM3.0x33.0
	11.0	15.0	ORM2.0x11.0		35.0	41.0	ORM3.0x35.0
	12.0	16.0	ORM2.0x12.0	36.0	42.0	ORM3.0x36.0	
	13.0	17.0	ORM2.0x13.0	38.0	44.0	ORM3.0x38.0	
	14.0	18.0	ORM2.0x14.0	45.0	51.0	ORM3.0x45.0	
	15.0	19.0	ORM2.0x15.0	3.5	28.0	35.0	ORM3.5x28.0
	16.0	20.0	ORM2.0x16.0		29.0	36.0	ORM3.5x29.0
	19.0	23.0	ORM2.0x19.0		30.0	37.0	ORM3.5x30.0
	20.0	24.0	ORM2.0x20.0		31.0	38.0	ORM3.5x31.0
	25.0	29.0	ORM2.0x25.0		32.0	39.0	ORM3.5x32.0
	28.0	32.0	ORM2.0x28.0		33.0	40.0	ORM3.5x33.0
	50.0	54.0	ORM2.0x50.0		34.0	41.0	ORM3.5x34.0



O-Rings

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BUNA-N O-Rings – Metric			
Thick (mm)	I.D. (mm)	O.D. (mm)	Part No.
3.5	35.0	42.0	ORM3.5x35.0
	36.0	43.0	ORM3.5x36.0
	37.0	44.0	ORM3.5x37.0
	38.0	45.0	ORM3.5x38.0
	40.0	47.0	ORM3.5x40.0
	42.0	49.0	ORM3.5x42.0
	43.0	50.0	ORM3.5x43.0
	44.0	51.0	ORM3.5x44.0
	45.0	52.0	ORM3.5x45.0
4.0	27.0	35.0	ORM4.0x27.0
	36.0	44.0	ORM4.0x36.0
	37.0	45.0	ORM4.0x37.0
	38.0	46.0	ORM4.0x38.0
	39.0	47.0	ORM4.0x39.0
	40.0	48.0	ORM4.0x40.0
	41.0	49.0	ORM4.0x41.0
	42.0	50.0	ORM4.0x42.0
	44.0	52.0	ORM4.0x44.0
	45.0	53.0	ORM4.0x45.0
	46.0	54.0	ORM4.0x46.0
	47.0	55.0	ORM4.0x47.0
	48.0	56.0	ORM4.0x48.0
	50.0	58.0	ORM4.0x50.0
	52.0	60.0	ORM4.0x52.0
	53.0	61.0	ORM4.0x53.0
	54.0	62.0	ORM4.0x54.0
	55.0	63.0	ORM4.0x55.0
	56.0	64.0	ORM4.0x56.0
	57.0	65.0	ORM4.0x57.0
58.0	66.0	ORM4.0x58.0	
60.0	68.0	ORM4.0x60.0	
5.0	40.0	50.0	ORM5.0x40.0
	45.0	55.0	ORM5.0x45.0
	50.0	60.0	ORM5.0x50.0
	55.0	65.0	ORM5.0x55.0
	60.0	70.0	ORM5.0x60.0

Viton® O-Rings–Metric			
Thick (mm)	I.D. (mm)	O.D. (mm)	Part No.
2.0	3.0	7.0	ORMV2.0x3.0
	4.0	8.0	ORMV2.0x4.0
	5.0	9.0	ORMV2.0x5.0
	6.0	10.0	ORMV2.0x6.0
	7.0	11.0	ORMV2.0x7.0
	8.0	12.0	ORMV2.0x8.0
	10.0	14.0	ORMV2.0x10.0
	2.5	10.0	15.0
11.0		16.0	ORMV2.5x11.0
12.0		17.0	ORMV2.5x12.0
14.0		19.0	ORMV2.5x14.0
16.0		21.0	ORMV2.5x16.0
17.0		22.0	ORMV2.5x17.0
19.0		24.0	ORMV2.5x19.0
3.0	19.0	25.0	ORMV3.0x19.0
	20.0	26.0	ORMV3.0x20.0
	22.0	28.0	ORMV3.0x22.0
	24.0	30.0	ORMV3.0x24.0
	25.0	31.0	ORMV3.0x25.0
	27.0	33.0	ORMV3.0x27.0
	28.0	34.0	ORMV3.0x28.0
	30.0	36.0	ORMV3.0x30.0
	32.0	38.0	ORMV3.0x32.0
	33.0	39.0	ORMV3.0x33.0
	35.0	41.0	ORMV3.0x35.0
	36.0	42.0	ORMV3.0x36.0
4.0	38.0	46.0	ORMV4.0x38.0
	41.0	49.0	ORMV4.0x41.0
	44.0	52.0	ORMV4.0x44.0



Mil-Spec O-Rings (Nitrile)



Use in MIL-H-5606, aircraft hydraulic fluid applications. Meets Mil-P-25732 Specification. Supersedes AN6227, AN6230. Temp. range: -65°F to +275°F. Color is black.



Thick (in)	I.D. (in)	Part No./Mil-Spec
0.07	0.113	MS28775006
	0.145	MS28775007
	0.176	MS28775008
	0.208	MS28775009
	0.239	MS28775010
	0.301	MS28775011
	0.364	MS28775012
	0.426	MS28775013
	0.489	MS28775014
	0.551	MS28775015
0.103	0.362	MS28775110
	0.424	MS28775111
	0.487	MS28775112
	0.549	MS28775113
	0.612	MS28775114
	0.674	MS28775115
	0.737	MS28775116
0.139	0.734	MS28775210
	0.796	MS28775211
	0.859	MS28775212
	0.921	MS28775213
	0.984	MS28775214
1.046	MS28775215	

Thick (in)	I.D. (in)	Part No./Mil-Spec
0.139	1.109	MS28775216
	1.171	MS28775217
	1.234	MS28775218
	1.296	MS28775219
	1.359	MS28775220
	1.421	MS28775221
	1.484	MS28775222
	1.609	MS28775223
	1.726	MS28775224
	1.85	MS28775225
	1.98	MS28775226
	2.11	MS28775227
	2.334	MS28775228
	2.359	MS28775229
	2.484	MS28775230
	2.729	MS28775232
	3.114	MS28775235
	3.484	MS28775238
6.507	MS28775260	
0.21	1.725	MS28775327
	1.85	MS28775328
	1.975	MS28775329
	2.1	MS28775330



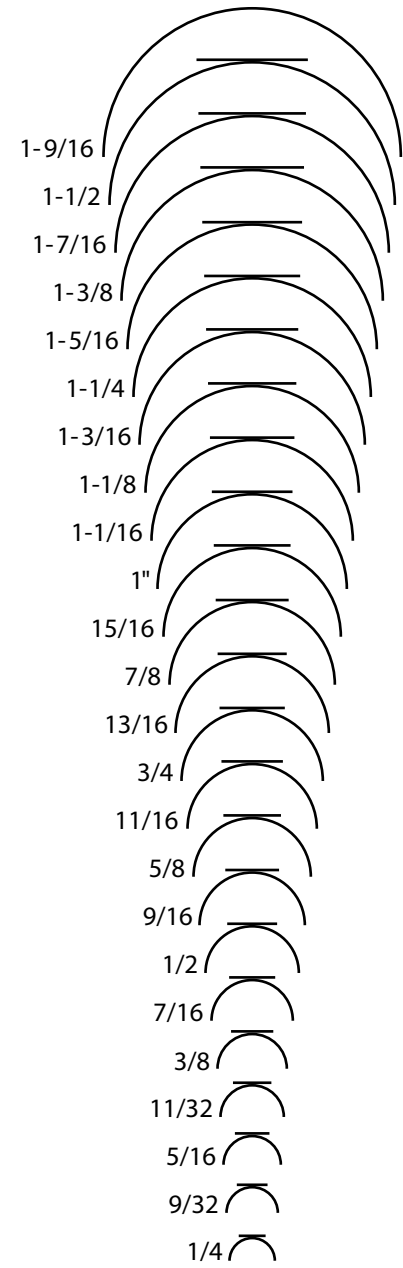
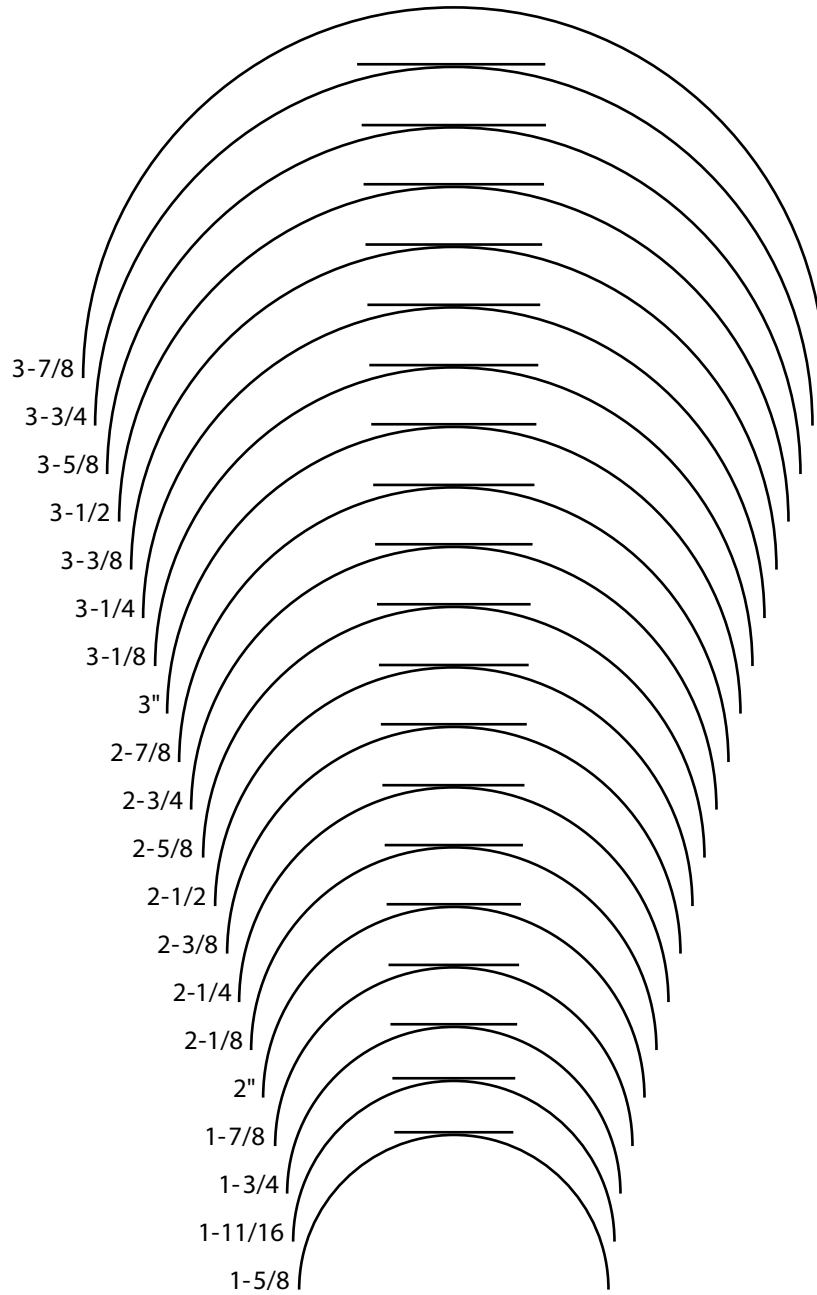


O-Rings

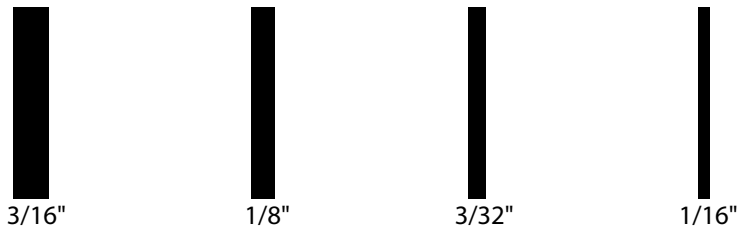
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O-Ring Gauge Inches

1. Determine width using thickness gauge.
2. Lay O-Ring on page until I.D. or O.D. is determined.



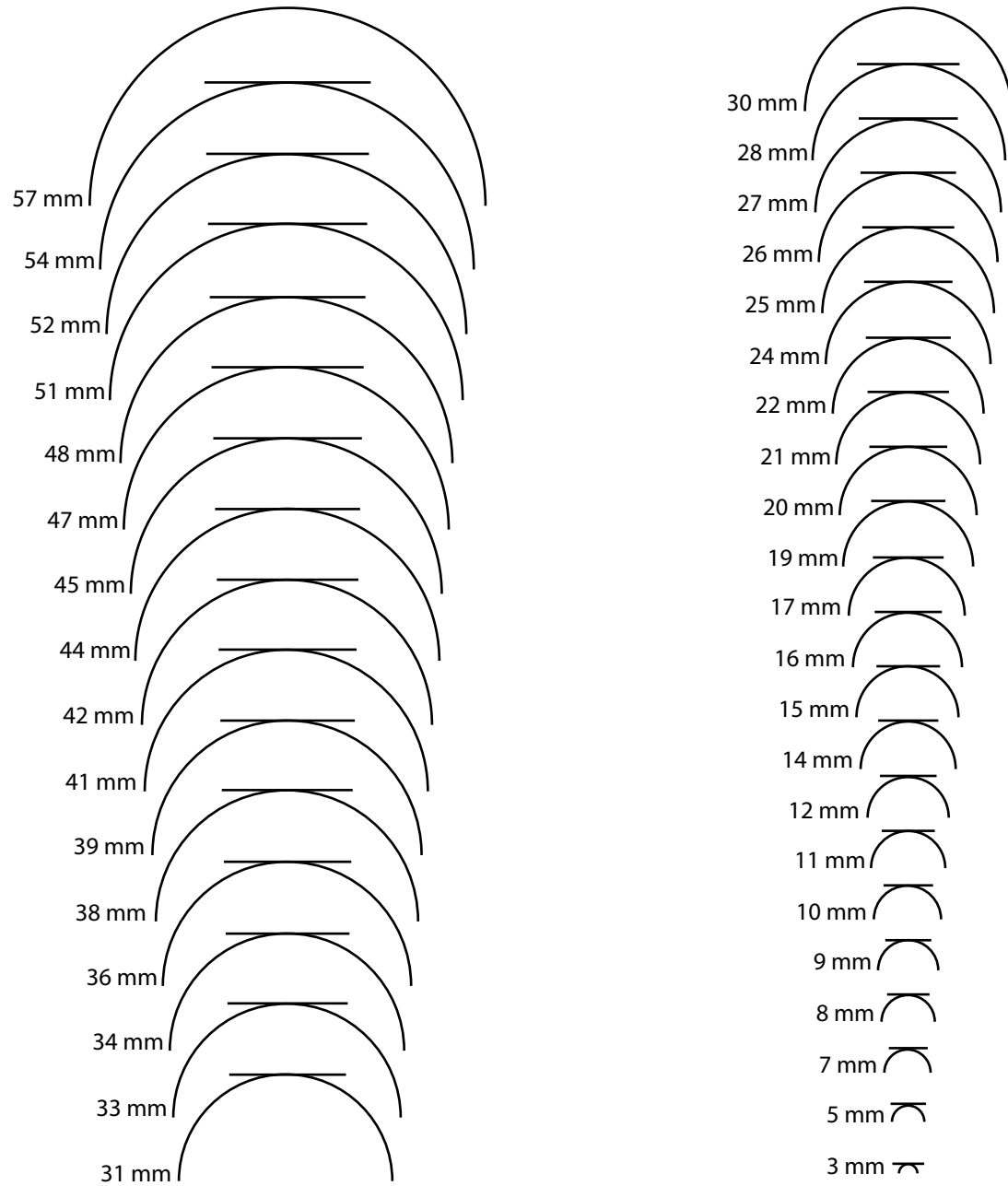
Thickness Gauge



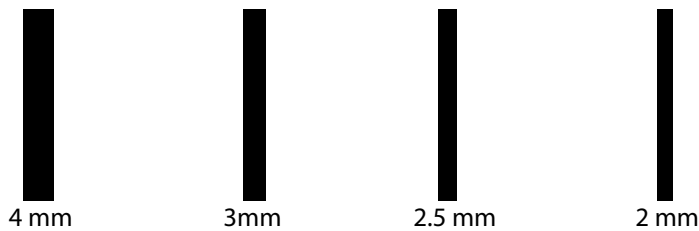


O-Ring Gauge Metric

1. Determine width using thickness gauge.
2. Lay O-Ring on page until I.D. or O.D. is determined.



Cross Section Gauge





Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Milton Pneumatic Couplers

Several different styles of couplers/plugs are in current industrial use. Originally developed by different manufacturers, they all perform equal if built to the same quality. The most popular styles are the Industrial Interchanges (M, H, G). Use the full size drawings to identify your plug.

Normally the various styles are not interchangeable. The G-style industrial interchange coupler will work with the G-style / Tru-Flate plugs. There are also 3-way couplers that will work with M,T & A style plugs.

Basic size defines the air handling capacity. The most common is 1/4".

1/4" basic size will handle 40 standard cubic feet per minute (SCFM).

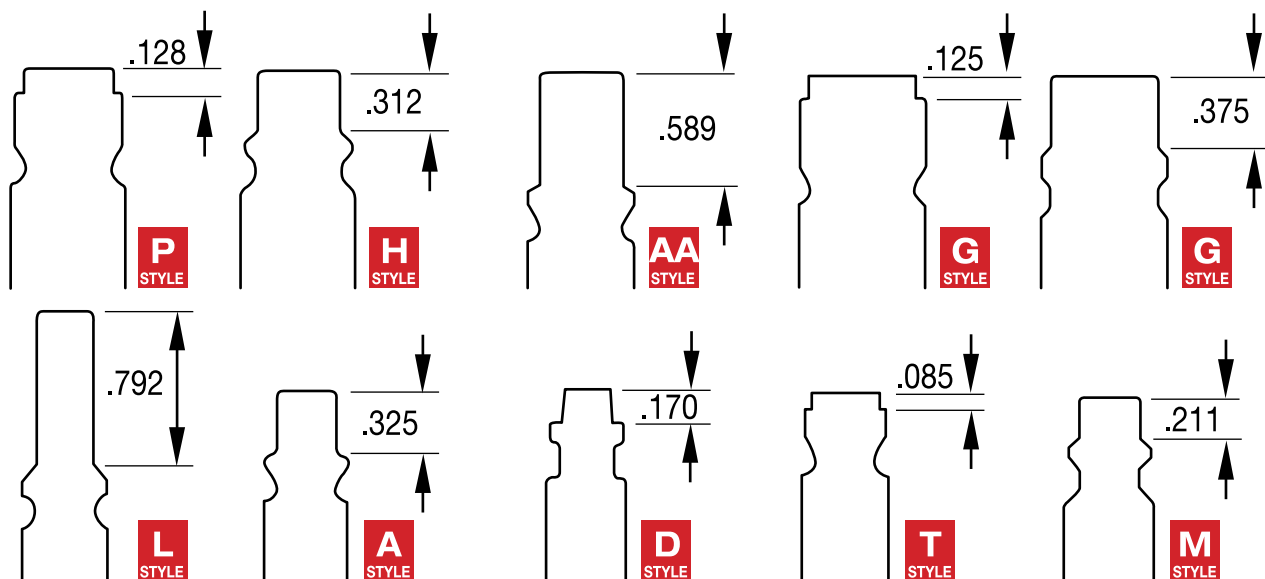
3/8" will handle 60 SCFM and 1/2" exceeding 60 SCFM. The two larger sizes are not intended to be connected or disconnected under normal air line pressures.

Do not confuse the basic size with pipe thread size, which has nothing to do with the air volume.

All couplers & plugs with the same letter code can be used together regardless of the pipe thread size.

Plug Style	Interchange Series	Basic Size (in)
A	ARO "210"	1/4
AA	ARO "310"	3/8
D	Diamond-U	1/4
G (.125)	Tru-Flate / Parker	1/2
G (.375)	Industrial / Milton	1/2
H	Industrial / Milton	3/8
L	Lincoln	1/4
M	Industrial / Milton	1/4
T	Tru-Flate / Parker	1/4
P	Tru-Flate / Parker	3/8

USE THESE FULL-SIZE DRAWINGS TO IDENTIFY AN UNKNOWN PLUG STYLE



Hi-Line carries most styles. See your local Territory Manager for details.



MPT=Male Pipe Thread, FPT=Female Pipe Thread



M-Style Couplers

- Milton M-Style couplers & plugs are interchangeable with Industrial Interchange series – 1/4" basic size.
- M-Style Coupler bodies are brass.
- M-Style plugs are case hardened plated steel.
- Seals are Buna-N
- Max. temp. 250°F
- Max. inlet pressure 300 PSI
- Air fl w 40 SCFM
- All M-Style coupler bodies are brass
- Drag Guard feature virtually eliminates accidental disconnection
- Meets requirements of Military Specific tion

MIL-C-4109



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<div style="display: flex; align-items: center;"> <div style="background-color: red; color: white; padding: 2px 5px; font-weight: bold; margin-right: 5px;">M</div> <div style="font-weight: bold;">STYLE</div> </div> M-Style Couplers All M-Style coupler bodies are brass				
Connection Type	Connection Size	Construction	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	Brass body & sleeve	715	FLP0003
	3/8		718	FLP0004
NPT Male	1/4	Brass body & sleeve	716	FLP0005
	3/8		719	FLP0006
NPT Female	1/4	Push type, steel sleeve, drag guard	755	FLP0007
NPT Male	1/4		756	FLP0008
NPT Female	1/4	Case hardened, steel drag guard	713	FLP0009
NPT Male	1/4		714	FLP0010
Hose barb	1/4	Case hardened, steel drag guard	717	FLP0011
	3/8		717-6	FLP0012
Push-on hose barb	1/4	Case hardened, steel drag guard	1717-4	FLP0013
	3/8		1717-6	FLP0014



Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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M <small>STYLE</small>				
M-Style Plugs All M-Style plugs are plated case hardened steel				
Connection Type	Connection Size	Construction	Milton Part No.	Hi-Line Part No.
NPT Male	1/8	Plated case hardened steel	726	FLP0015
	1/4		727	FLP0016
	3/8		733	FLP0017
NPT Female	1/8	Plated case hardened steel	729	FLP0018
	1/4		728	FLP0019
	3/8		732	FLP0020
Hose barb	1/4	Plated case hardened steel	736	FLP0021
	3/8		736-6	FLP0022
Push-on Hose barb	1/4	Plated case hardened steel	1736-4	FLP0023
	3/8		1736-6	FLP0024

H <small>STYLE</small>			
H-Style Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	1833	FLP0025
	3/8	1835	FLP0026
NPT Male	1/4	1834	FLP0027
	3/8	1836	FLP0028
Hose barb	3/8	1836-6	FLP0029
Push-on hose barb	3/8	1796-6	FLP0030

H <small>STYLE</small>			
H-Style Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Male	1/4	1839	FLP0031
	3/8	1837	FLP0032
NPT Female	1/4	1840	FLP0033
	3/8	1838	FLP0034
Hose barb	3/8	1837-6	FLP0035
Push-on/lock hose barb	3/8	1797-6	FLP0036

H-Style

Industrial Interchange 3/8" Basic Size

- Milton H-Style couplers & plugs will interchange with Industrial Interchange series – 3/8" Basic Size
- H-Style Coupler bodies are plated steel
- H-style plugs are case harden plated steel
- Seals are Buna-N, Max. Temp. 250°F, Max. inlet pressure 300 PSI, air fl w 67 SCFM





MPT=Male Pipe Thread, FPT=Female Pipe Thread

G-Style Industrial Interchange 1/2" Body Size

- Milton G-Style couplers & plugs will interchange with Industrial Interchange series – 1/2" Basic Size
- G-Style Coupler bodies are plated steel
- G-style plugs are case harden plated steel
- Seals are Buna-N, Max. Temp. 250°F, Max. inlet pressure 300 PSI, air fl w 99 SCFM

G-Style Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	3/8	1813	FLP0037
	1/2	1815	FLP0038
NPT Male	3/8	1814	FLP0039
	1/2	1816	FLP0040



FLP0037



FLP0039

G-Style Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Male	3/8	1859	FLP0041
	1/2	1857	FLP0042
NPT Female	3/8	1860	FLP0043
	1/2	1858	FLP0044



FLP0042



FLP0043

A-Style ARO "210" Interchange 1/4" Body size

- Milton A-Style couplers & plugs will interchange with ARO "210" interchange series–1/4" Basic Size
- A-Style Coupler bodies are plated steel
- A-style plugs are case harden plated steel
- Seals are Buna-N, Max. Temp. 250°F, Max. inlet pressure 300 PSI, air fl w 34 SCFM

A-Style Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	775	FLP0045
NPT Male	1/4	776	FLP0046



FLP0045



FLP0046

A-Style Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Male	1/4	777	FLP0047
NPT Female	1/4	778	FLP0048



FLP0047



FLP0048



Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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T-Style Tru-Flate/Parker Interchange 1/4" Body size

- Milton T-Style couplers & plugs will interchange with Tru-Flate/ Parker interchange series – 1/4" Basic Size
- T-Style Coupler bodies are plated steel
- T-style plugs are case harden plated steel
- Seals are Buna-N, Max. Temp. 250°F, Max. inlet pressure 300 PSI, air fl w 40 SCFM

T-Style Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	785	FLP0049
	3/8	788	FLP0050
NPT Male	1/4	786	FLP0051
	3/8	789	FLP0052



FLP0049

FLP0051

T-Style Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Male	1/4	783	FLP0053
NPT Female	1/4	784	FLP0054



FLP0053

FLP0054

P-Style Tru-Flate/Parker Interchange 3/8" Body size

- Milton P-Style couplers & plugs will interchange with Tru-Flate/ Parker interchange series – 3/8" Basic Size
- P-Style Coupler bodies are plated steel
- P-style plugs are case harden plated steel
- Seals are Buna-N, Max. Temp. 250°F, Max. inlet pressure 300 PSI, air fl w 68 SCFM

P-Style Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	1803	FLP0055
	3/8	1805	FLP0056
NPT Male	1/4	1804	FLP0057
	3/8	1806	FLP0058



FLP0055



FLP0058

P-Style Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Male	1/4	1809	FLP0059
	3/8	1807	FLP0060
NPT Female	1/4	1810	FLP0061
	3/8	1808	FLP0062



FLP0060



FLP0061



MPT=Male Pipe Thread, FPT=Female Pipe Thread



Push Button Safety Couplers

- Double click to engage properly. First click locks coupler & plug; the second click engages the air pressure.
- To disconnect push the button twice. The first push relieves air pressure; the second push allows the coupler & plug to be disengaged.
- Coupler body shells are fiber glass filled nylon
- Max. inlet pressure: 225 PSI
- Air flow: 36 SCFM @ 90 PSI
- Rubber seal: NBR 80
- Temperature range: -60° F to 140° F

Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	S 99705	FLP0063
NPT Male	1/4	S 99706	FLP0064
NPT Female	1/4	S 99773	FLP0065
NPT Male	1/4	S 99774	FLP0066
NPT Female	1/4	S 99787	FLP0067
NPT Male	1/4	S 99788	FLP0068



M
STYLE



FLP0063

FLP0064



A
STYLE



FLP0065

FLP0066



T
STYLE



FLP0067

FLP0068

Compact Safety Lever Blo-Gun

- Compact & versatile blo-gun comes with both a safety nozzle and rubber tip nozzle
- Hang-up hook for easy storage
- Max. working pressure 150 PSI
- 1/4 NPT air inlet
- SCFM 12.9 @ 100 PSI with safety tip, 12.9 with rubber tip. OSHA compliant with safety tip only
- Zinc die-cast body

Milton Part No.	Hi-Line Part No.
S148	FLP0069



3 in 1 Manifold

Supply 3 air tools from a single outlet. 1/4 NPT air inlet. No need to disconnect & connect for every tool change.

Milton Part No.	Hi-Line Part No.
S 685-4	FLP0070





Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread



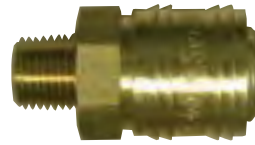
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Pneumatic Couplers (Industrial Interchange)

1/4" Body Size



Universal Couplers*	
MPT	Parker
1/4	PHUC2514MP
3/8	PHUC2516MP



Couplers	
MPT	Parker
1/4	PHB22
3/8	PHB22E



Couplers	
Hose Barb Size	Parker
1/4	PHB203B
5/16	PHB204B
3/8	PHB205B



Universal Couplers*	
FPT	Parker
1/4	PHUC2514FP
3/8	PHUC2516FP



Couplers	
FPT	Parker
1/4	PHB23
3/8	PHB23E



Nipples	
Hose Barb Size	Parker
5/16	PHH8CD
3/8	PHH9C



Nipples	
MPT	Parker
1/4	PHBH2C
3/8	PHH2CE



Nipples	
FPT	Parker
1/4	PHBH3C
3/8	PHH3CE

PH__ = Steel
PHB__ = Brass

*The 1/4" UC Series Coupler will accept the industrial interchange, [(MIL-C4109) and (ANSI/NFPA T3.20.14-1990)], 10 Series (Tru-Flate) and the 50 Series (ARO 210) style nipples.

3/8" Body Size



Couplers	
Hose Barb Size	Parker
3/8	PH245B
1/2	PH246B



Couplers	
MPT	Parker
1/4	PH24C
3/8	PHB24
1/2	PH24F



Couplers	
FPT	Parker
1/4	PH25C
3/8	PH25
	PHB25
1/2	PH25F



MPT=Male Pipe Thread, FPT=Female Pipe Thread

3/8" Body Size continued



Nipples	
MPT	Parker
1/4	PHH0E
3/8	PHH2E
	PHBH2E
1/2	PHH2EF

Nipples	
Hose Barb Size	Parker
3/8	PHH5E
1/2	PHH6E

Nipples	
FPT	Parker
1/4	PHH1E
3/8	PHH3E
	PHBH3E
1/2	PHH3EF

PH__ = Steel
PHB__ = Brass

1/2" Body Size



Couplers	
MPT	Parker
3/8	PH16E
1/2	PH16
	PHB16

Couplers	
Hose Barb Size	Parker
1/2	PH166B
3/4	PH167B

Couplers	
FPT	Parker
3/8	PH17E
1/2	PH17
	PHB17

PH__ = Steel
PHB__ = Brass



Nipples	
MPT	Parker
3/8	PHH0F
1/2	PHH2F
	PHBH2F

Nipples	
Hose Barb Size	Parker
3/8	PHH4F
1/2	PHH5F
3/4	PHH5G

Nipples	
FPT	Parker
3/8	PHH1F
1/2	PHH3F
	PHBH3F

PH__ = Steel
PHB__ = Brass



Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread

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Push Button Pneumatic Couplers (Industrial) 1/4" Body Size



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 MPT	IRC061251	ISC061251	IRP066251
3/8 MPT	IRC061252	ISC061252	IRP066252



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 FPT	IRC061201	ISC061201	IRP066201
3/8 FPT	IRC061202	ISC061202	IRP066202

3/8" Body Size



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 MPT	IRC081251	ISC081251	IRP086251
3/8 MPT	IRC081252	ISC081252	IRP086252



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 FPT	IRC081201	ISC081201	IRP086201
3/8 FPT	IRC081202	ISC081202	IRP086202



MPT=Male Pipe Thread, FPT=Female Pipe Thread

Push Button Pneumatic Couplers (Tru-Flate Interchange)



1/4" Body Size



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 MPT	URC061251	USC061251	URP066251
3/8 MPT	URC061252	USC061252	URP066252



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 FPT	URC061201	USC061201	URP066201
3/8 FPT	URC061202	USC061202	URP066202

3/8" Body Size



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 MPT	URC081251	USC081251	URP086251
3/8 MPT	URC081252	USC081252	URP086252



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 FPT	URC081201	USC081201	URP086201
3/8 FPT	URC081202	USC081202	URP086202



Couplers & Plugs

MPT=Male Pipe Thread, FPT=Female Pipe Thread



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Push Button Pneumatic Couplers (ARO 210 Series Interchange)

1/4" Body Size



Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 MPT	ARC061251	ASC061251	ARP066251
3/8 MPT	ARC061252	ASC061252	ARP066252

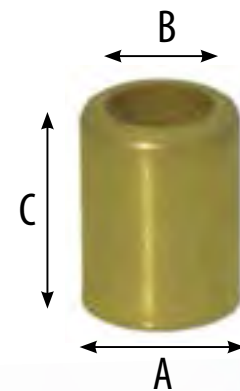


Thread Size	Push Button Couplers	Safety Push Button Couplers	Nipples
1/4 FPT	ARC061201	ASC061201	ARP066201
3/8 FPT	ARC061202	ASC061202	ARP066202

Hose Ferrules – Brass

For use with low-pressure air hose. 300 PSI maximum air pressure.

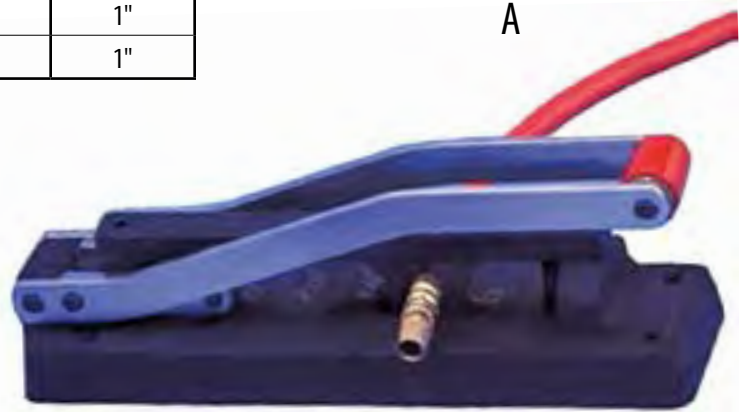
Part No.	Fits Hose O.D.	Ferrule I.D.	Hole Size	Length (C)
		(A)	(B)	
HF1	1/2"	.525	.375	1"
HF2	9/16"	.562	.437	1"
HF3	19/32"	.593	.437	1"
HF4	5/8"	.625	.437	1"
HF5	21/32"	.656	.437	1"
HF6	11/16"	.687	.500	1"
HF7	23/32"	.718	.500	1"



Crimp Tool

Part No: HF CRMP1

Use to repair or make custom low-pressure air hose assemblies. 1/4" single braid to 3/8" two braid hose

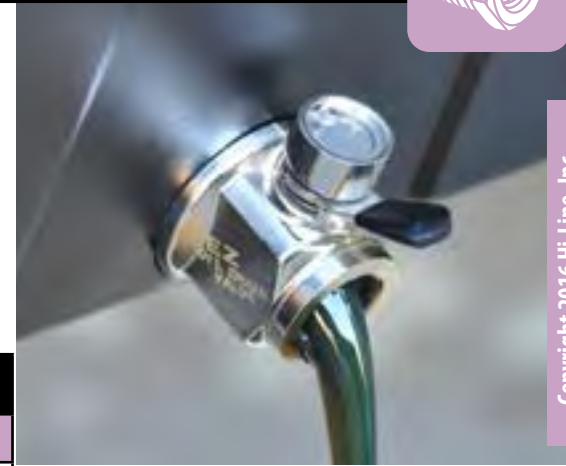


12" (L) x 3" (W) x 2-3/4" (H)
10.25 lbs.



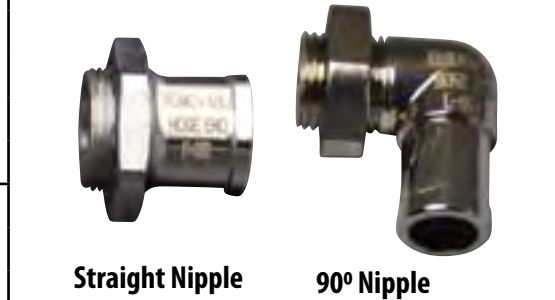
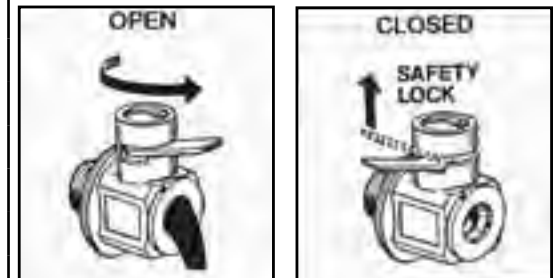
Engine Oil Drain Valves

- One touch operation
- Reduces oil change time & cost
- Eliminates stripped threads
- Reduces mess and contact with oil
- Order with "N" suffix or hose nipple style



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Engine Oil Drain Valves			
Size	EZ Part No.	Hi-Line Part No.	Nipple
1/2"-20	EZ101	ODVF101	For Small Engine Valves: 3/8" O.D. Straight Nipple: Use Part No. ODVNH001 90° Nipple: Use Part No. ODVNL001
PF-3/8 (G-38)	EZ102	ODVF102	
M12-1.25	EZ103	ODVF103	
M18-1.5	EZ104	ODVF104	
M20-1.5	EZ105	ODVF105	
M14-1.5	EZ106	ODVF106	
M12-1.75	EZ107	ODVF107	
M16-1.5	EZ108	ODVF108	
M12-1.5	EZ109	ODVF109	
3/8 NPT	EZ110	ODVF110	
M14-1.25	EZ111	ODVT111	
1 NPT	EZ200	ODVT200	
3/4 NPT	EZ201	ODVT201	
1/2 NPT	EZ202	ODVT202	
1"-18	EZ203	ODVT203	
3/4"-16	EZ204	ODVT204	
1-1/8"-12	EZ205	ODVT205	
7/8"-14	EZ206	ODVT206	
M26-1.5	EZ207	ODVT207	
7/8"-18	EZ208	ODVT208	
1"-14	EZ209	ODVT209	
M27-2.0	EZ211	ODVT211	
M25-1.5	EZG5	ODVFG5	
M24-2.0	EZG6	ODVFG6	
M30-1.5	EZG7	ODVFG7	
M22-1.5	EZG7B	ODVFG7B	
M24-1.5	EZG8	ODVFG8	



Applications are exactly the same as previous valves.



Engine Oil Drain Valve Adapters			
Size	EZ Part No.	Hi-Line Part No.	Male & Female Use With Valve
M18-1.5	EZ-ADP104	ODVFADP104	ODVF104
M14-1.5	EZ-ADP106	ODVFADP106	ODVF106
1-5/16"-12	EZ-ADP205	ODVFADP205	ODVT205



Adapter





Engine Oil Drain Valves

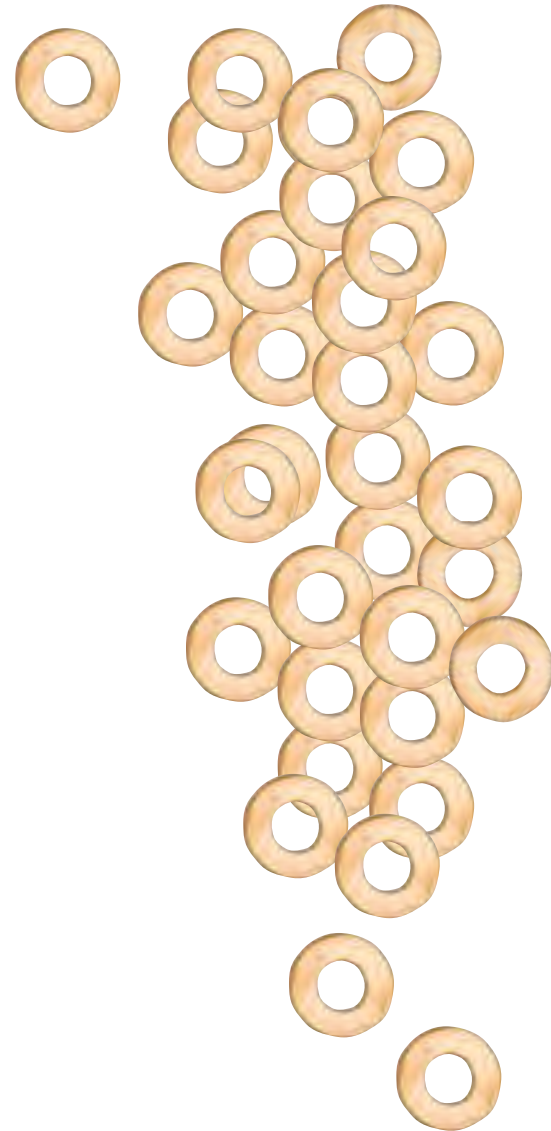
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Copper Sealing Washers				
Bolt Size	I.D.	O.D.	Thickness	Part No.
3/16"	1/4"	7/16"	1/32"	CPRW316S
3/16"	1/4"	5/8"	1/16"	CPRW316L
1/4"	5/16"	1/2"	1/32"	CPRW14S
1/4"	5/16"	11/16"	1/16"	CPRW14L
5/16"	3/8"	9/16"	1/32"	CPRW516S
5/16"	3/8"	3/4"	1/16"	CPRW516L
3/8"	7/16"	13/16"	1/16"	CPRW38
7/16"	1/2"	7/8"	1/16"	CPRW716
1/2"	9/16"	13/16"	3/32"	CPRW12

Use with Drain Plugs

Metric Copper Sealing Washers				
Bolt Size	I.D.	O.D.	Thickness	Part No.
M8	8.2MM	11.8MM	0.8MM	CPRWM8
M10	10.2MM	15.8MM	0.8MM	CPRWM10
M12	12.2MM	17.8MM	1.4MM	CPRWM12
M14	14.2MM	17.8MM	1.4MM	CPRWM14S
M14	14.2MM	19.8MM	1.4MM	CPRWM14L
M16	16.2MM	19.8MM	1.4MM	CPRWM16

Use with Drain Plugs





Full Assortment Product Quantity

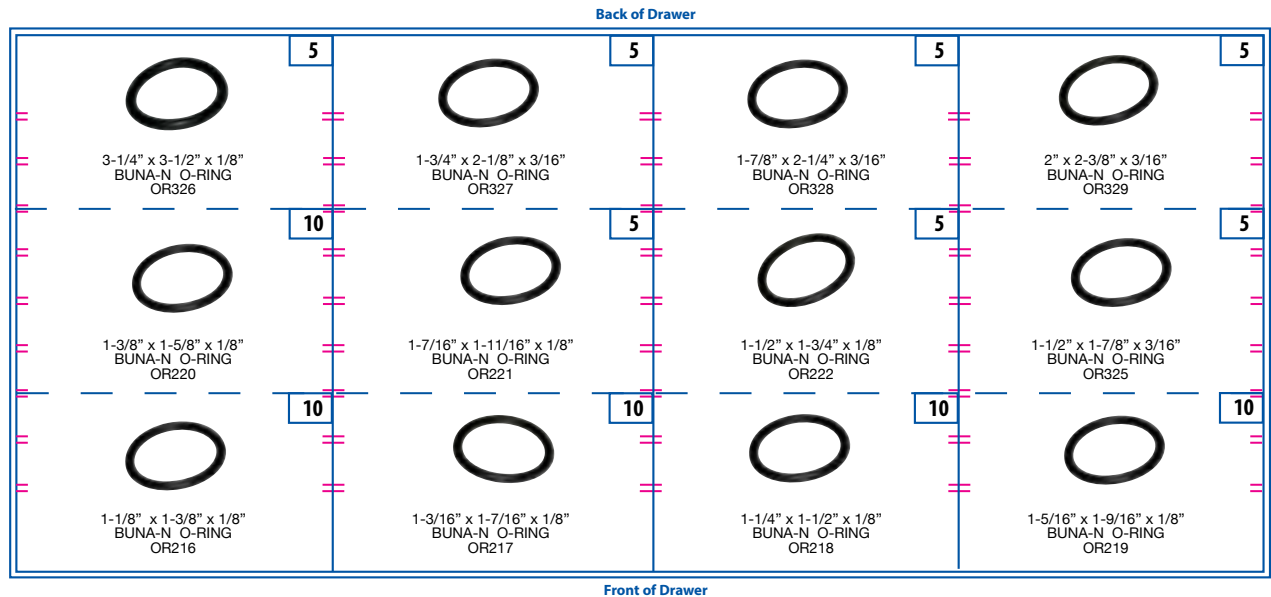
Starter Assortment Product Quantity

3/8" FPT COUPLING
3300x6

You can choose between a full quantity assortment or partial "starter" assortment quantity.

O-Rings – Large

Full Assortment
Part No. ORLK
 85 Pieces (Comes in a PBADJ parts bin)





Fluid Power Assortments

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O-Rings – Small

Full Assortment

Part No. ORSK

300 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 1/8" x 1" x 1-1/4" OR214 10	 1/8" x 1-1/16" x 1-5/16" OR215 10				
 3/32" x 11/16" x 7/8" OR115 10	 3/32" x 11/16" x 7/8" OR116 10	 1/8" x 3/4" x 1" OR210 10	 1/8" x 13/16" x 1-1/6" OR211 10	 1/8" x 7/8" x 1-1/8" OR212 10	 1/8" x 15/16" x 1-3/16" OR213 10
 1/16" x 3/8" x 1/2" OR012 20	 3/32" x 3/8" x 9/16" OR110 20	 3/32" x 7/16" x 5/8" OR111 20	 3/32" x 1/2" x 11/16" OR112 20	 3/32" x 9/16" x 3/4" OR113 10	 3/32" x 5/8" x 13/16" OR114 10
 1/16" x 1/8" x 1" x 1/4" OR006 20	 1/16" x 5/32" x 1" x 9/32" OR007 20	 1/16" x 3/16" x 5/16" OR008 20	 1/16" x 7/32" x 11/32" OR009 20	 1/16" x 1/4" x 3/8" OR010 20	 1/16" x 5/16" x 7/16" OR011 20

Front of Drawer

Hydraulic O-Rings

Full Assortment

Part No. AST0211

117 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 5/8 FOR-SEAL O-RING 4629x10 5	 1-1/2 FOR-SEAL O-RING 4629x24 5	 1/2 TUBE O.D. STR THREAD O-RING 7629x8 5	 1-1/4 TUBE O.D. STR THREAD O-RING 7629x20 5	 1-1/2 TUBE O.D. STR THREAD O-RING 7629x24 5	 2" TUBE O.D. STR THREAD O-RING 7629x32 5
 1/2 FOR-SEAL O-RING 4629x8 10	 1-1/4 FOR-SEAL O-RING 4629x20 5	 3/8 TUBE O.D. STR THREAD O-RING 7629x6 5	 1" TUBE O.D. STR THREAD O-RING 7629x16 5	 1" HOSE SPLIT FLANGE O-RING 16x252 2	 2" HOSE SPLIT FLANGE O-RING 32x252 2
 3/8 FOR-SEAL O-RING 4629x6 10	 1 FOR-SEAL O-RING 4629x16 5	 5/16 TUBE O.D. STR THREAD O-RING 7629x5 5	 3/4 TUBE O.D. STR THREAD O-RING 7629x12 5	 3/4" HOSE SPLIT FLANGE O-RING 12x252 2	 1-1/2" HOSE SPLIT FLANGE O-RING 24x252 2
 1/4 FOR-SEAL O-RING 4629x4 10	 3/4 FOR-SEAL O-RING 4629x12 5	 1/4 TUBE O.D. STR THREAD O-RING 7629x4 5	 5/8 TUBE O.D. STR THREAD O-RING 7629x10 5	 1/2" HOSE SPLIT FLANGE O-RING 8x252 2	 1-1/4" HOSE SPLIT FLANGE O-RING 20x252 2

Front of Drawer

Forseal® (Flat Face O-Ring)

Straight Thread (Boss) O-Ring

Split Flange O-Ring















Non-Threaded JIC 37° Hydraulic Fitting Cap

Full Assortment

Part No. NTHCK

240 Pieces (Comes in a PBADJ parts bin)

















Back of Drawer			
	5/16" TOD -5 CAP CCT5	25	
	3/4" TOD -12 CAP CCT13X	25	
	1-1/4 JIC 37° CAP CCT18	10	
	1-3/4 JIC 37° CAP CCT230	10	
	1/4" TOD -4 CAP CCT4X	25	
	5/8" TOD -10 CAP CCT11X	25	
	1 JIC 37° CAP CCT15X	10	
	1-3/4 JIC 37° CAP CCT20	10	
	3/16" TOD -3 CAP CCT3X	25	
	1/2" TOD -8 CAP CCT9X	25	
	1/8" TOD -2 CAP CCT2	25	
	3/8" TOD -10 CAP CCT6X	25	
Front of Drawer			

Non-Threaded JIC 37° Hydraulic Fitting Cap & Plug

Full Assortment

Part No. NTHCPK

400 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
	5/16" TOD -5 CAP CCT5	25	
	3/4" TOD -12 CAP CCT13X	25	
	5/16" TOD -5 PLUG PT4	25	
	3/4" TOD -12 PLUG PT12X	25	
	1/4" TOD -4 CAP CCT4X	25	
	5/8" TOD -10 CAP CCT11X	25	
	1/4" TOD -4 PLUG PT3	25	
	5/8" TOD -10 PLUG PT10	25	
	3/16" TOD -3 CAP CCT3X	25	
	1/2" TOD -8 CAP CCT9X	25	
	3/16" TOD -3 PLUG PT2	25	
	1/2" TOD -8 PLUG PT8	25	
	1/8" TOD -2 CAP CCT2	25	
	3/8" TOD -10 CAP CCT6X	25	
	1/8" TOD -2 PLUG PT1	25	
	3/8" TOD -6 PLUG PT5	25	
Front of Drawer			



Fluid Power Assortments





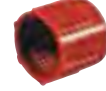











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Threaded JIC 37° Hydraulic Cap & Plug

Full Assortment

Part No. THCPK

310 Pieces (Comes in a PBADJ parts bin)







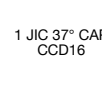
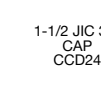


Back of Drawer							
	25		10		25		10
	25		10		25		10
	25		10		25		10
	25		25		25		25
Front of Drawer							

Threaded JIC 37° Hydraulic Cap

Full Assortment

Part No. THCK

205 Pieces (Comes in a PBADJ parts bin)

Back of Drawer							
	25		25		10		10
	25		25		25		10
	25		25				
Front of Drawer							



Brass Pipe Fittings 1/8" – 3/8"

Full Assortment
Part No. BRK32

76 Pieces (Comes in a PB24 parts bin)

Starter Assortment
Part No. BRK32SA

48 Pieces (Comes in a PB24 parts bin)

Back of Drawer

3/8" MPT HEX PLUG 3152x6	3/8" MPT CLOSE NIPPLE 3326x6	3/8" FPT ELBOW 3500x6	3/8" FPT x 3/8" MPT STREET ELBOW 3400x6	3/8" FPT x 1/4" FPT COUPLING 3300x6x4	3/8" FPT COUPLING 3300x6
1/4" MPT HEX PLUG 3152x4	1/4" MPT CLOSE NIPPLE 3326x4	1/4" FPT ELBOW 3500x4	1/4" FPT x 1/4" MPT STREET ELBOW 3400x4	3/8" FPT x 1/8" FPT COUPLING 3300x6x2	1/4" FPT COUPLING 3300x4
1/8" MPT HEX PLUG 3152x2	1/8" MPT CLOSE NIPPLE 3326x2	1/8" FPT ELBOW 3500x2	1/8" FPT x 1/8" MPT STREET ELBOW 3400x2	1/4" FPT x 1/8" FPT COUPLING 3300x4x2	
1/4" MPT x 1/8" FPT BUSHING 3220x4x2	3/8" MPT x 1/4" FPT BUSHING 3220x6x4	1/2" MPT x 3/8" FPT BUSHING 3220x8x6	1/4" FPT x 1/8" MPT ADAPTER 3200x4x2	3/8" FPT x 1/4" MPT ADAPTER 3200x6x4	

Front of Drawer

Brass Pipe Fittings 1/2" – 3/4"

Full Assortment
Part No. BRK38

49 Pieces (Comes in a PB24 parts bin)

Back of Drawer

3/4" MPT X 3/8" FPT BUSHING 3220x12x6	3/4" MPT X 1/2" FPT BUSHING 3220x12x8	3/4" FPT X 3/8" MPT ADAPTER 3200x12x6	3/4" FPT X 1/2" MPT ADAPTER 3200x12x8		
3/4" MPT HEX HEAD PLUG 3152x12	3/4" MPT CLOSE NIPPLE 3326x12	1/2" FPT 90° ELBOW 3500x12	3/4" FPT X 3/4" MPT 90° STREET ELBOW 3400x12		3/4" FPT COUPLING 3300x12
1/2" MPT X 1/8" FPT BUSHING 3220x8x2	1/2" MPT X 1/4" FPT BUSHING 3220x8x4	1/2" MPT X 3/8" FPT BUSHING 3220x8x6	1/2" FPT X 3/8" MPT ADAPTER 3200x8x6		
1/2" MPT HEX HEAD PLUG 3152x8	1/2" MPT CLOSE NIPPLE 3326x8	1/2" FPT X 1/2" FPT 90° STREET ELBOW 3500x8	1/2" FPT X 1/2" MPT 90° STREET ELBOW 3400x8	1/2" FPT X 3/8" FPT REDUCER COUPLING 3300x8x6	1/2" FPT COUPLING 3300x8

Front of Drawer



Fluid Power Assortments

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SAE 45° Flare Fittings

Full Assortment

Part No. BRK40

99 Pieces (Comes in a PB24 parts bin)

Back of Drawer

1/2" LONG NUT 41x8	1/2" TUBE X 3/8" MPT MALE CONNECTOR 48X8	1/2" TUBE X 1/2" MPT MALE CONNECTOR 48X8X8	1/2" TUBE X 3/8" MPT MALE CONNECTOR 49X8	1/2" TUBE X 1/2" MPT MALE ELBOW 49X8X8	1/2" UNION 42x8
3/8" LONG NUT 41x6	3/8" TUBE X 1/4" MPT MALE CONNECTOR 48X6	3/8" TUBE X 3/8" MPT MALE CONNECTOR 48X6X6	3/8" TUBE X 1/4" MPT MALE ELBOW 49X6	3/8" TUBE X 3/8" MPT MALE ELBOW 49X6X6	3/8" UNION 42x6
5/16" LONG NUT 41x5	5/16" TUBE X 1/8" MPT MALE CONNECTOR 48x5	5/16" TUBE X 1/4" MPT MALE CONNECTOR 48X5X4	5/16" TUBE X 1/8" MPT MALE ELBOW 49X5	5/16" TUBE X 1/4" MPT MALE ELBOW 49X5X4	5/16" LONG NUT 42x5
1/4" LONG NUT 41x4	1/4" TUBE X 1/8" MPT MALE CONNECTOR 48X4	1/4" TUBE X 1/4" MPT MALE CONNECTOR 48X4X4	1/4" TUBE X 1/8" MPT MALE ELBOW 49X4	1/4" TUBE X 1/4" MPT MALE ELBOW 49X4X4	1/4" UNION 42x4

Front of Drawer

Brass Compression Fittings

Full Assortment

Part No. BRK60

122 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. BRK60SA

64 Pieces (Comes in a PB24 parts bin)

Back of Drawer

3/8" COMPRESSION SLEEVE 60X6	3/8" NUT 61X6	3/8" TUBE x 1/4" MPT MALE CONNECTOR 68x6	3/8" TUBE x 1/4" MPT 90° MALE ELBOW 69x6		3/8" UNION 62X6
5/16" COMPRESSION SLEEVE 60X5	5/16" NUT 61X5	5/16" TUBE x 1/8" MPT MALE CONNECTOR 68X5	5/16" TUBE x 1/8" MPT 90° MALE ELBOW 69x5		5/16" UNION 62X5
1/4" COMPRESSION SLEEVE 60X4	1/4" NUT 61X4	1/4" TUBE x 1/8" MPT MALE CONNECTOR 68X4	1/4" TUBE x 1/8" MPT 90° MALE ELBOW 69x4		1/4" UNION 62X4
1/8" COMPRESSION SLEEVE 60X2	1/8" NUT 61X2	1/8" TUBE x 1/8" MPT MALE CONNECTOR 68x2	1/8" TUBE x 1/8" MPT 90° MALE ELBOW 69X2		1/8" UNION 62X2

Front of Drawer



Nylon D.O.T. Air Brake Fittings 1/2" & 5/8"

Full Assortment

Part No. BRK148

74 Pieces (Comes in a PB24 parts bin)

Back of Drawer

5/8" INSERT 1484X10	5/8" NUT 1461X10	5/8 X 3/4 MALE CONNECTOR 1468X10X12		5/8 x 3/4 90° MALE ELBOW 1469x10x12	
5/8" SLEEVE 1460X10	5/8" GAUGE RING 1485X10	5/8 X 1/2 MALE CONNECTOR 1468X10	5/8 x 1/2 45° MALE ELBOW 1480X10	5/8 x 1/2 90° MALE ELBOW 1469x10	5/8" UNION 1462X10
1/2" INSERT 1484X8	1/2" NUT 1461X8	1/2" TUBE X 1/2" MPT MALE CONNECTOR 1468X8X8	1/2" TUBE X 1/2" MPT 45° MALE ELBOW 1480X8X8	1/2" TUBE X 1/2" MPT 90° MALE ELBOW 1469X8X8	
1/2" SLEEVE 1460X8	1/2" GAUGE RING 1485X8	1/2" TUBE X 3/8" MPT MALE CONNECTOR 1468X8	1/2" 45° MALE ELBOW 1480x8	1/2" TUBE X 3/8" MPT 90° MALE ELBOW 1469X8	1/2" UNION 1462X8

Front of Drawer

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Nylon D.O.T. Air Brake Fittings 1/4" & 3/8"

Full Assortment

Part No. BRK142

108 Pieces (Comes in a PB24 parts bin)

Starter Assortment

Part No. BRK142SA

63 Pieces (Comes in a PB24 parts bin)

Back of Drawer

3/8" INSERT 1484X6	3/8" NUT 1461X6	3/8" TUBE X 1/4" MPT 90° MALE ELBOW 1469X6	3/8" TUBE X 3/8" MPT 90° MALE ELBOW 1469X6X6	3/8" TUBE X 1/4" MPT 45° MALE ELBOW 1480X6	3/8" TUBE X 3/8" MPT 45° MALE ELBOW 1480X6X6
3/8" SLEEVE 1460X6	3/8" GAUGE RING 1485X6	3/8" TUBE X 1/4" MPT MALE CONNECTOR 1468X6	3/8" TUBE X 3/8" MPT MALE CONNECTOR 1468X6X6		3/8" UNION 1462X6
1/4" INSERT 1484X4	1/4" NUT 1461X4	1/4" TUBE X 1/8" MPT -90° MALE ELBOW 1469X4	1/4" TUBE X 1/4" MPT -90° MALE ELBOW 1469X4X4	1/4" TUBE X 1/8" MPT 45° MALE ELBOW 1480X4	
1/4" SLEEVE 1460X4	1/4" GAUGE RING 1485X4	1/4" TUBE X 1/8" MPT MALE CONNECTOR 1468X4	1/4" TUBE X 1/4" MPT MALE CONNECTOR 1468X4X4		1/4" UNION 1462X4

Front of Drawer



Fluid Power Assortments

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Quick Connect D.O.T. Air Brake Fittings 1/4" & 3/8"

Full Assortment

Part No. BRK186

39 Pieces (Comes in a PB16 parts bin)

Back of Drawer

 2 3/8 TUBE x 1/4 MPT 45° MALE ELBOW 1880x6	 3 3/8 TUBE x 3/8" MPT 45° MALE ELBOW 1880x6x6	 3 3/8 TUBE x 1/4 PIPE 90° MALE ELBOW - DOT Q.C. 1869x6	 3 3/8 TUBE x 3/8 PIPE 90° MALE ELBOW - DOT Q.C. 1869x6x6
 3 3/8 TUBE x 1/4 PIPE MALE CONN - DOT Q.C. 1868x6	 3 3/8 TUBE x 3/8 PIPE MALE CONN - DOT Q.C. 1868x6x6		 3 3/8 TUBE UNION 1862x6
 2 1/4 TUBE x 1/8 PIPE 45° MALE ELBOW 1880x4		 3 1/4 TUBE x 1/8 PIPE 90° MALE ELBOW - DOT Q.C. 1869x4	 3 1/4 TUBE x 1/4 PIPE 90° MALE ELBOW - DOT Q.C. 1869x4x4
 3 1/4 TUBE x 1/8 PIPE MALE CONN - DOT Q.C. 1868x4	 3 1/4 TUBE x 1/4 PIPE MALE CONN - DOT Q.C. 1868x4x4		 5 1/4 TUBE UNION - DOT Q.C. 1862x4

Front of Drawer

Quick Connect D.O.T. Air Brake Fittings 1/2" & 5/8"

Full Assortment

Part No. BRK188

27 Pieces (Comes in a PB16 parts bin)

Back of Drawer

 2 5/8 TUBE x 1/2 MPT 45° MALE ELBOW 1880x10		 1 5/8 TUBE x 1/2 PIPE 90° MALE ELBOW 1869x10	 2 5/8 TUBE x 3/8 PIPE 90° MALE ELBOW 1869x10x6
 2 5/8 TUBE x 1/2 PIPE MALE CONN 1868x10	 2 5/8 TUBE x 3/8 PIPE MALE CONN - DOT Q.C. 1868x10x6		 2 5/8 TUBE UNION 1862x10
 2 1/2 TUBE x 3/8 PIPE 45° MALE ELBOW 1880x8	 2 1/2 TUBE x 1/2 PIPE 45° MALE ELBOW - DOT Q.C. 1880x8x8	 2 5/8 TUBE x 1/2 PIPE 90° MALE ELBOW 1869x8	 1 1/2 TUBE x 1/2 PIPE 90° MALE ELBOW 1869x8x8
 3 1/2 TUBE x 3/8 PIPE MALE CONN 1868x8	 3 1/2 TUBE x 1/2 PIPE MALE CONN 1868x8x8		 3 1/2 TUBE UNION 1862x8



















Composite DOT Fittings

Full Assortment

Part No. AST0209

35 Pieces (Comes in a PB16 parts bin)

Back of Drawer			
 3 1/2" D.O.T. UNION - COMPOSITE B1862x8	 2 1/2 x 1/4 MALE CONNECTOR DOT COMP. PUSH-ON FITTING B1868x8x4	 2 1/2 X 3/8 90° M. ELBOW COMP 217-40008-03	 2 1/2 X 3/8 45° M. ELBOW COMP 217-35008-03
 2 3/8" TUBE x 3/8 PIPE D.O.T. MALE CONN. - COMP. B1868x6x6	 2 3/8 X 1/4 90° M. ELBOW COMP 217-40006-03	 2 3/8 X 3/8 90° M. ELBOW COMP 217-43606-03	 2 3/8 X 1/4 45° M. ELBOW COMP 217-35006-03
 2 1/4 X 1/4 90° M. ELBOW COMP 217-43404-03	 2 1/4 X 1/8 45° M. ELBOW 217-35004-03	 3 3/8" D.O.T. UNION - COMPOSITE B1862x6	 2 3/8" TUBE x 1/4 PIPE D.O.T. MALE CONN. - COMP. B1868x6x4
 3 1/4" D.O.T. UNION - COMPOSITE B1862x4	 2 1/4" TUBE x 1/8 PIPE D.O.T. MALE CONN. - COMP. B1868x4x2	 2 1/4" TUBE x 1/4 PIPE D.O.T. MALE CONN. - COMP. B1868x4x4	 2 1/4 X 1/8 90° M. ELBOW COMP 217-40004-03
Front of Drawer			

Roadside Emergency Repair Kits

Keep your fleet in compliance with Federal D.O.T. regulations. These glove compartment size kits give your drivers what they need to make roadside repairs. Each kit comes in a handy plastic case that measures approximately 7" x 4" x 1-3/4".

Emergency D.O.T. Tubing Repair Kit Part No: EDOTK1

This kit contains composite push-on D.O.T. tube unions for 5/32", 1/4", 3/8" and 1/2" sizes. Includes a tube cutter that ensures perpendicular cuts for non-leak connections.





Fluid Power Assortments

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Air Brake Hose H338 Field Attachment Fittings – 3/8"

Full Assortment

Part No. BRKH338

18 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 MALE CONN. 3/8" x 1/4" 338B SERIES HOSE END 33806BY24	 MALE CONN. 3/8" x 3/8" 338B SERIES HOSE END 33806BY26	 MALE CONN. 3/8" x 1/2" 338B SERIES HOSE END 33806BY28	 HOSE MENDER 3/8" 338B SERIES HOSE END 33806BY06
 MALE CONN. W/ SPRING GUARD 3/8" x 1/4" 338B SERIES HOSE END 33806BY34	 MALE CONN. W/ SPRING GUARD 3/8" x 3/8" 338B SERIES HOSE END 33806BY36	 MALE CONN. W/ SPRING GUARD 3/8" x 1/2" 338B SERIES HOSE END 33806BY38	 NUT 3/8" 338B SERIES HOSE END 33806B
			 SLEEVE 3/8" 338B SERIES HOSE END 33806A
Front of Drawer			

Grease Fittings

Full Assortment

Part No. GFK

110 Pieces (Comes in a PB16 parts bin)

Back of Drawer			
 1/4"-28 TAPER THREAD 90° 3/4" O.A.L. GF1490		 1/8" PTF 90° 27/32" O.A.L. GF1890	 DRIVE TYPE STRAIGHT 34/64" O.A.L. Drill DIA. 5/16" GF516D
 1/4"-28 TAPER THREAD 45° 13/16" O.A.L. GF1445	 1/8" PTF STRAIGHT 1-3/4" O.A.L. GF183S	 1/8" PTF 65° 27/32" O.A.L. GF1865	 DRIVE TYPE STRAIGHT 34/64" O.A.L. Drill DIA. 1/4" GF14D
 1/4"-28 TAPER THREAD STRAIGHT 11/16" O.A.L. GF142S	 1/8" PTF Straight 1-1/4" O.A.L. GF182S	 1/8" PTF 45° 57/64" O.A.L. GF1845	 Drive Type Straight 33/64" O.A.L. Drill DIA. 3/16" GF316D
 1/4"-28 TAPER THREAD STRAIGHT 35/64" O.A.L. GF141S	 1/8" PTF Straight 11/16" O.A.L. GF181S	 1/8" PTF 30° 29/32" O.A.L. GF1830	
Front of Drawer			



Black Pipe Fittings

Full Assortment

Part No. BPK1

110 Pieces (Comes in a PB24 parts bin)

Back of Drawer					
1/2" REGULAR PLUG BP10012	1/2" CAP CLASS 150 BP11012		1/2" X 2" NIPPLE BP6012X2	1/2" 90° ELBOW CLASS 150 BP1012	1/2" 90° ELBOW CLASS 150 BP1012
3/8" X CLOSE HEX BUSHING BP6038XCL	3/8" CAP CLASS 150 BP11038	1/2" X 3/8" HEX BUSHING BP7012X38	3/8" X 2" NIPPLE BP6038X2	3/8" 90° ELBOW CLASS 150 BP1038	3/8" TEE CLASS 150 BP8038
1/4" REGULAR PLUG BP10014	1/4" CAP CLASS 150 BP11014	3/8" X 1/4" HEX BUSHING BP7038X14	1/4" X 2" NIPPLE BP6014X2	1/4" 90° ELBOW CLASS 150 BP1014	1/4" TEE CLASS 150 BP8014
1/8" REGULAR PLUG BP10018	1/8" CAP CLASS 150 BP11018	1/4" X 1/8" HEX BUSHING BP7014X18	1/8" X 2" NIPPLE BP6018X2	1/8" 90° ELBOW CLASS 150 BP1018	1/8" TEE CLASS 150 BP8018
Front of Drawer					

Glad Hands & Tank Valves

Full Assortment

Part No. GTK

31 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
EMERGENCY (RED) GLADHAND W79851	SERVICE (BLUE) GLADHAND W79850	UNIVERSAL (BLACK) GLADHAND W76150	AIR TANK DRAIN VALVE 142124
			GLADHAND SEAL W14630
Front of Drawer			



Fluid Power Assortments

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O-Ring Splicing Assortment Part No. OSK 8 Pieces (Comes in a Plastic Parts Bin)		
Cord Sizes	Length Feet	Part No.
OSM.070	7	OSM.070
OSM.103	7	OSM.103
OSM.139	7	OSM.139
OSM.210	7	OSM.210
OSM.275	7	OSM.275
Razor Blade		
Splicing Tool		
Adhesive Tube		

O-Ring Splicing Assortment – Metric Part No. OSKM 12 Pieces (Comes in a Plastic Parts Bin)		
Cord Sizes	Length Meter	Part No.
1.6 mm	1	OSMM1.6
2.0 mm	1	OSMM2.0
2.5 mm	1	OSMM2.5
3.0 mm	1	OSMM3.0
3.5 mm	1	OSMM3.5
4.0 mm	1	OSMM4.0
5.0 mm	1	OSMM5.0
5.7 mm	1	OSMM5.7
8.4 mm	1	OSMM8.4
Razor Blade		
Splicing Tool		
Adhesive Tube		





Hose Clamps – Small Part No. HCRK 100 Pieces (Comes with a HCR10 Hose Clamp Rack)					
Size	Min. Dia.	Max. Dia.	Nom. Dia.	Qty in Kit	Part No.
#04	7/32"	5/8"	1/4"	10	6206004
#06	5/16"	7/8"	1/2"	10	6206006
#08	7/16"	1"	9/16"	10	6204008
#10	9/16"	1-1/16"	5/8"	10	6204010
#12	9/16"	1-1/4"	3/4"	10	6204012
#16	11/16"	1-1/2"	1"	10	6204016
#20	3/4"	1-3/4"	1-1/4"	10	6204020
#28	1-5/16"	2-1/4"	1-3/4"	10	6204028
#32	1-9/16"	2-1/2"	2"	10	6204032
#36	1-13/16"	2-3/4"	2-1/4"	10	6204036

Assortment available without rack as part # HCKNR



Hose Clamps – Large Part No. HCRLK 50 Pieces (Comes with a HCR5 Hose Clamp Rack)					
Size	Min. Dia.	Max. Dia.	Nom. Dia.	Qty in Kit	Part No.
#40	2-1/16"	3"	2-1/2"	10	6204040
#48	2-9/16"	3-1/2"	3"	10	6204048
#52	2-13/16"	3-3/4"	3-1/4"	10	6204052
#56	3-1/16"	4"	3-1/2"	10	6204056
#72	4-1/16"	5"	4-1/2"	10	6204072



Silicone Hose Liner Clamps Stainless Steel
Part No. HCSSRK
100 Pieces (Comes with a HCR10 Hose Clamp Rack)

Size	Min. Dia.	Max. Dia.	Qty in Kit	Part No.
6	7/16"	25/32"	10	6209406
8	1/2"	29/32"	10	6209408
10	9/16"	1-1/16"	10	6209410
12	11/16"	1-1/4"	10	6209412
16	13/16"	1-1/2"	10	6209416
20	13/16"	1-3/4"	10	6209420
24	1-1/16"	2"	10	6209424
28	1-5/16"	2-1/4"	10	6209428
32	1-9/16"	2-1/2"	10	6209432
40	2-1/16"	3"	10	6209440



WIRE & CABLE

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- The size bullets to the right will help you determine the gauge (size) of an unmarked cable.
- Measure the bare conductor only, not the insulation. Actual diameters will vary depending on specific wire stranding.

8

6

4

2

1

1/0

2/0

3/0

4/0

Battery Cable Sizes	
Type of Equipment	Typical AWG
Garden Tractor	8, 6, 4
Compact car, RV	6, 4
Standard car	4, 2
Full size car, van	2, 1
Tractor, light truck, construction	1/0
HD tractor, truck, bus, construction	2/0, 3/0
Extra heavy duty	4/0

American Wire Gauge (AWG)



Extra-Flex Cable

- Dual Insulating Jacketing Technology - double insulated for operator safety, product durability with superior abrasion resistance
- Outer jacket-TYPE TPE (FT1) flexible and resistant to tears, cuts, abrasion, oil, acid & water
- Inner jacket – made of a contrasting color, lets you easily spot damage or wear. The jacket also adds flexibility between the conductors and the outer jacket.
- For heavy-duty battery (truck/marine) and welding applications
- Constructed with out paper liners that create a wicking affect and hold moisture in the cable
- Meets SAE J378C/J1127 and our insulation meets UL 62 for SJE, SE, SEO rated 60 or 90 C
- High Flexibility -Rope stranded flexible 30ga class K copper construction
- Not affected by UV rays and will not crack when used outdoors
- Manufactured to true AWG sizes, 2/0 has 1330 X 30 strand count /allows this cable to carry the maximum amount of amperage and voltage (minimizes amperage drop)
- Cables average 6.5% more copper than our competition and our cables weigh an average of 14% per foot more than most competitors' products.
- Stays flexible in the cold -safe operating temperatures range of -56° F (-49 C) to +221° F (+105 C)

AWG	Red 25'	Red 50'	Red 100'	Red 250'
8	–	BCEF8RDV	BCEF8RD1	–
6	BCEF6RDX	BCEF6RDV	–	–
4	BCEF4RDX	BCEF4RDV	–	BCEF4RD2
2	BCEF2RDX	BCEF2RDV	–	BCEF2RD2
1	BCEF1RDX	BCEF1RDV	–	–
1/0	BCEF10RDX	BCEF10RDV	BCEF10RD1	–
2/0	BCEF20RDX	BCEF20RDV	–	–
3/0	BCEF30RDX	–	–	–
4/0	BCEF40RDX	BCEF40RDV	–	–

AWG	Black 25'	Black 50'	Black 100'	Black 250'
8	–	BCEF8BKV	BCEF8BK1	–
6	BCEF6BKX	BCEF6BKV	–	–
4	BCEF4BKX	BCEF4BKV	–	BCEF4BK2
2	BCEF2BKX	BCEF2BKV	–	BCEF2BK2
1	BCEF1BKX	BCEF1BKV	–	–
1/0	BCEF10BKX	BCEF10BKV	BCEF10BK1	–
2/0	BCEF20BKX	BCEF20BKV	–	–
3/0	BCEF30BKX	–	–	–
4/0	BCEF40BKX	BCEF40BKV	–	–



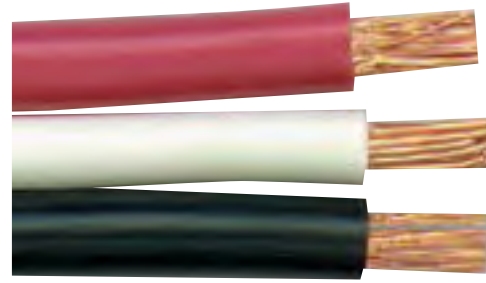


Wire & Cable



Battery & Starter Cable

Flexible, stranded copper cable with PVC insulation providing protection against abrasion, oils, grease, solvents, moisture, heat and aging. Hi-Line Battery and Starter Cable offers low resistance with minimum voltage drop and maximum current flow.



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AWG	Red 25'	Red 50'	Red 100'	Red 250'	Red 500'
8	–	BCF8RDV	BCF8RD1	–	–
6	–	BCF6RDV	BCF6RD1	–	BCF6RD3
4	–	BCF4RDV	BCF4RD1	BCF4RD2	–
2	–	BCF2RDV	BCF2RD1	–	BCF2RD3
1	BCF1RDX	BCF1RDV	–	BCF1RD2	–
1/0	BCF10RDX	BCF10RDV	–	–	BCF10RD3
2/0	BCF20RDX	BCF20RDV	–	–	BCF20RD3
3/0	BCF30RDX	–	–	–	–
4/0	BCF40RDX	–	BCF40RD1	BCF40RD2	BCF40RD3

AWG	Black 25'	Black 50'	Black 100'	Black 250'	Black 500'
8	–	BCF8BKV	BCF8BK1	–	–
6	–	BCF6BKV	BCF6BK1	–	BCF6BK3
4	–	BCF4BKV	BCF4BK1	BCF4BK2	–
2	–	BCF2BKV	BCF2BK1	–	BCF2BK3
1	BCF1BKX	BCF1BKV	–	–	–
1/0	BCF10BKX	BCF10BKV	–	–	–
2/0	BCF20BKX	BCF20BKV	–	–	BCF20BK3
3/0	BCF30BKX	BCF30BKV	–	–	–
4/0	BCF40BKX	–	BCF40BKX1	BCF40BKX2	BCF40BKX3

AWG	White 50'	White 100'
8	BCF8WEV	BCF8WE1



Compression Crimp Tool

Part No: RC840B

For battery terminals and flared lugs, 4 – 4/0 GA, adjustable/dial-in gauge settings.



Our best primary wire!



Self-extinguishing insulation

Cross-Link Primary Wire

- Insulated in a chemically cross-linked polyethylene insulation (Hypalon™)
- The molecules of SXL insulation are cross-linked giving the insulation more durable qualities
- Insulation will not support a flame in case of an electrical fire
- Resistant to cuts and abrasions
- Resistant to damage by temperature surges from overloads
- Resists damage from oil, greases, acids, solvents & moisture
- Higher temperature range of -40° to 221° F
- Hypalon™ Coated
- SAE J1128 Type SXL, 50 Volts DC Max
- Meets or exceeds SAE & ATA specifications

AWG	Black	Blue	Brown	Green	Red	White	Yellow
18	HC18BKV	HC18BEV	HC18BNV	HC18GNV	HC18RDV	HC18WEV	HC18YWV
16	HC16BKV	HC16BEV	HC16BNV	HC16GNV	HC16RDV	HC16WEV	HC16YWV
14	HC14BKV	HC14BEV	HC14BNV	HC14GNV	HC14RDV	HC14WEV	HC14YWV
12	HC12BKV	HC12BEV	HC12BNV	HC12GNV	HC12RDV	HC12WEV	HC12YWV
10	HC10BKV	HC10BEV	HC10BNV	HC10GNV	HC10RDV	HC10WEV	HC10YWV

Above part numbers are for 50' spools

For 100' rolls replace the V suffix with a 1, example: HC18BK1
 For 500' rolls replace the V suffix with a 3, example: HC18BK3



PVC Insulated Primary Wire

- SAE J1128 Type GPT, 50 Volts DC Max
- Meets or exceeds SAE & ATA specifications
- Temperature range: -40° to 185°F

AWG	Black	Blue	Light Blue	Brown	Gray	Green	Light Green
18	PC18BK1	PC18BE1	PC18LBE1	PC18BN1	PC18GY1	PC18GN1	PC18LGN1
16	PC16BK1	PC16BE1	–	PC16BN1	PC16GY1	PC16GN1	PC16LGN1
14	PC14BK1	PC14BE1	PC14LBE1	PC14BN1	PC14GY1	PC14GN1	PC14LGN1
12	PC12BK1	PC12BE1	–	PC12BN1	PC12GY1	PC12GN1	–
10	PC10BK1	PC10BE1	–	PC10BN1	–	PC10GN1	–

AWG	Orange	Pink	Purple	Red	White	Yellow
18	PC18OE1	PC18PK1	PC18LPE1	PC18RD1	PC18WE1	PC18YW1
16	PC16OE1	PC16PK1	PC16LPE1	PC16RD1	PC16WE1	PC16YW1
14	PC14OE1	PC14PK1	PC14LPE1	PC14RD1	PC14WE1	PC14YW1
12	PC12OE1	–	PC12LPE1	PC12RD1	PC12WE1	PC12YW1
10	PC10OE1	–	–	PC10RD1	PC10WE1	PC10YW1

Above part numbers are for 100' spools

For 250' rolls replace the 1 suffix with a 2, example: PC18BK2
 For 500' rolls replace the 1 suffix with a 3, example: PC18BK3
 For 1000' rolls replace the 1 suffix with a 4, example: PC18BK4
 10 GA is also available in 50' rolls - use the suffix V, example: PC10BKV



Wire & Cable

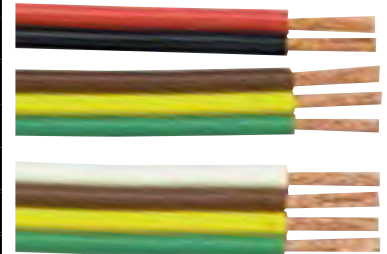
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Parallel Wire – Trailer



2, 3 and 4 conductor parallel wire with color-coded PVC insulation. SAE approved for low voltage applications on lighting harnesses for boat and equipment trailers. Temp. up to 80°C/176°F.

AWG	No. of Conductors	Colors	Part No.	
			100'	250'
16	2	Black & Red	PRL16x21	PRL16x22
	3	Yellow, Brown, & Green	PRL16x31	–
	4	Yellow, Brown, Green & White	PRL16x41	–
14	2	Red & Black	PRL14x21	PRL14x22
12	2	Red & Black	PRL12x21	PRL12x22
10	2	Red & Black	PRL10x21	–



Fusible Link Wire



Designed to open a circuit when subjected to an extreme current overload. Its purpose is to minimize wiring system damage. Meets S.A.E. J156. Temperatures up to 150°C/221°F, 20–10AWG.

AWG	Color	Part No.
		50'
20	Gray	WFL20GYV
18	Blue	WFL18BEV
16	Black	WFL16BKV
14	Gray	WFL14GYV
12	Blue	WFL12BEV
10	Rust	WFL10RTV



Plastic Jacket Cable



PVC insulated, stranded copper wires, laid parallel and covered by a protective vinyl insulation jacket. For temperature ranges to 105°C/221°F. 50V DC. Meets SAE J1128 specifications.



AWG	No. of Conductors	Part No.	
		100'	500'
16	2	TPC161	TPC163
14	2	TPC141	TPC143
	3	TPC14x31	–
12	2	TPC121	–
10	2	TPC101	–

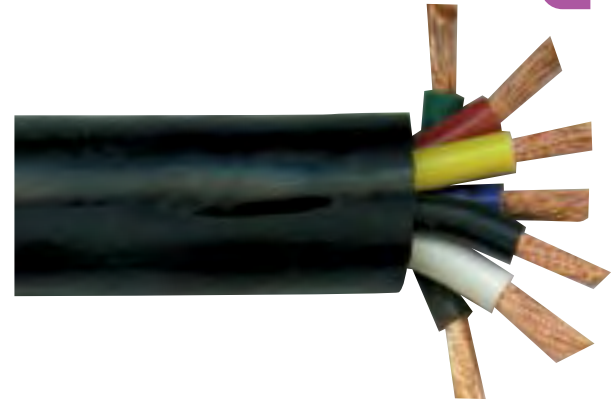




Multi-Conductor Trailer Cable



4, 6 and 7 conductor trailer cable manufactured to ATA and SAE specifications. Stranded soft copper wire to carry lighting power without loss of voltage. Each inner conductor has a heavy covering of insulation. Final sheath gives full protection against road hazards. The premium conductor insulation is temperature rated at -40°C thru 80°C/-40°F thru 176°F. For use at 50V DC or less.



Number of Conductors	AWG/ Conductor	Insulation Colors	Put-Up	Part No.
Round Cable, Black Jacket:				
4	16	RD/WE/BK/BN	50'	TC16x4PV
	14	RD/WE/BK/BN	50'	TC14x4PV
	14	RD/WE/BK/BN	500'	TC14x4P3
6	16	RD/WE/BK/BN/GN/YW	50'	TC16x6PV
	14	RD/WE/BK/BN/GN/YW	50'	TC14x6PV
7	14	RD/WE/BK/BN/GN/YW/BE	50'	TC14x7V
	14	RD/WE/BK/BN/GN/YW/BE	100'	TC14x71
	12/6,10/1	RD/WE/BK/BN/GN/YW/BE	50'	TC7P
	12/4,10/2,8/1	RD/WE/BK/BN/GN/YW/BE	100'	TC7GN1
Flat Cable, Gray Jacket:				
4	14	RD/WE/BK/GN	50'	TCF14x4BKV
	14	RD/WE/BK/GN	100'	TCF14x4BK1
	14	RD/WE/BK/GN	250'	TCF14x4BK2

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“ZIP” Parallel Lamp Cord Wire

- Twin, stranded copper conductors with parallel molded insulation
- Used for small, low voltage wiring applications such as lamps, sound equipment and other household appliances
- Clear insulation is great for speaker wire
- U.L. listed for 300 Volts AC from original manufacturer
- 250' rolls



AWG	Black	White	Brown	Clear
18	ZP18x2BK2	ZP18x2WE2	ZP18x2BN2	ZP18x2CR2
16	ZP16x2BK2	ZP16x2WE2	—	—



Wire & Cable

AFMT (THHN & TFFN) Appliance, Fixture, Machine Tool Wire

A multi-purpose, 19-strand copper wire designed for applications in machine tools, controls, switchboards, appliances, building lighting and instruments. U.L. listed for 600 Volts AC and C.S.A. approved. The PVC insulation has an outer nylon jacket for additional protection in wet/dry applications up to 105°C/221°F.



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AWG	Part Numbers – 100' Rolls								
	Black	Blue	Gray	Green	Orange	Purple	Red	White	Yellow
18	AFMT18BK1	AFMT18BE1	AFMT18GY1	AFMT18GN1	AFMT18OE1	AFMT18PE1	AFMT18RD1	AFMT18WE1	AFMT18YW1
16	AFMT16BK1	AFMT16BE1	AFMT16GY1	AFMT16GN1	AFMT16OE1	AFMT16PE1	AFMT16RD1	AFMT16WE1	AFMT16YW1
14	AFMT14BK1	AFMT14BE1	AFMT14GY1	AFMT14GN1	AFMT14OE1	AFMT14PE1	AFMT14RD1	AFMT14WE1	AFMT14YW1
12	AFMT12BK1	AFMT12BE1	AFMT12GY1	AFMT12GN1	AFMT12OE1	AFMT12PE1	AFMT12RD1	AFMT12WE1	AFMT12YW1
10	AFMT10BK1	AFMT10BE1	AFMT10GY1	AFMT10GN1	AFMT10OE1	AFMT10PE1	AFMT10RD1	AFMT10WE1	AFMT10YW1
8	AFMT8BK1	AFMT8BE1	AFMT8GY1	AFMT8GN1	AFMT8OE1	AFMT8PE1	AFMT8RD1	AFMT8WE1	AFMT8YW1

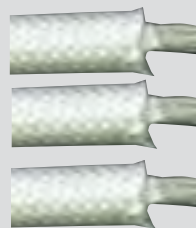
AWG	Part Numbers – 500' Rolls								
	Black	Blue	Gray	Green	Orange	Purple	Red	White	Yellow
18	AFMT18BK3	AFMT18BE3	–	AFMT18GN3	AFMT18OE3	AFMT18PE3	AFMT18RD3	AFMT18WE3	AFMT18YW3
16	AFMT16BK3	AFMT16BE3	AFMT16GY3	AFMT16GN3	AFMT16OE3	AFMT16PE3	AFMT16RD3	AFMT16WE3	AFMT16YW3
14	AFMT14BK3	AFMT14BE3	AFMT14GY3	AFMT14GN3	AFMT14OE3	AFMT14PE3	AFMT14RD3	AFMT14WE3	AFMT14YW3
12	AFMT12BK3	AFMT12BE3	AFMT12GY3	AFMT12GN3	AFMT12OE3	AFMT12PE3	AFMT12RD3	AFMT12WE3	AFMT12YW3
10	AFMT10BK3	AFMT10BE3	–	AFMT10GN3	AFMT10OE3	AFMT10PE3	AFMT10RD3	AFMT10WE3	AFMT10YW3
8	AFMT8BK3	AFMT8BE3	–	AFMT8GN3	AFMT8OE3	AFMT8PE3	AFMT8RD3	AFMT8WE3	AFMT8YW3

Silicone High-Temp Wire



- A stranded, tinned copper conductor insulated with silicone rubber and outer jacket of varnished fiberglass braid
- Used in high temp. applications up to 200°C/392°F for electric ovens, hot water heaters, stoves, deep fryers, drying equipment and other types of high temp. appliances. 600 Volts AC
- Resistant to ozone radiation, moisture and aging under heat
- NOTE: Silicone wire has a POOR resistance to most oils, solvents and strong acids

AWG	Part No.			
	White 25'	White 50'	White 100'	Black 100'
16	–	–	S16WE1	S16BK1
14	–	–	S14WE1	S14BK1
12	S12WEX	S12WEV	S12WE1	S12BK1
10	S10WEX	S10WEV	S10WE1	S10BK1
8	S8WEX	S8WEV	S8WE1	S8BK1



PTFE High-Temp Wire

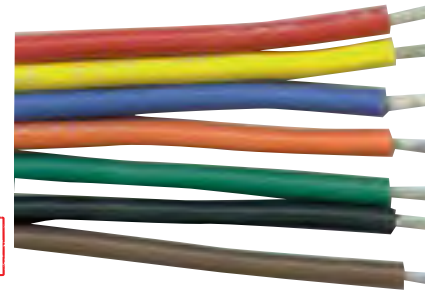
- PTFE insulation - white
- Silver plated stranded copper
- For high temperature applications up to 392°F/200°C
- [AS22759/11_](#)

AWG	Mil-Spec.	Part No.
		100'
20	M22759/11-20-9	T20WE1
18	M22759/11-18-9	T18WE1
16	M22759/11-16-9	T16WE1
14	M22759/11-14-9	T14WE1
12	M22759/11-12-9	T12WE1
10	M22759/11-10-9	T10WE1



Hook-Up Wire

- PVC insulated, tinned copper wire, 600 Volts AC
- For internal wiring, control boxes, appliances (AWM), HVAC, harness fabrication, machine tool wiring (MTW) & vehicles
- Temp. -40°F/-40°C to 221°F/105°C



UL1015: .031 Insulation Thickness									
AWG	Part Numbers								
	Black	Blue	Brown	Green	Orange	Red	White	Yellow	
22	HUW22ULBK2	HUW22ULBE2	HUW22ULBN2	HUW22ULGN2	HUW22ULOE2	HUW22ULRD2	HUW22ULWE2	HUW22ULYW2	250' Rolls
20	HUW20ULBK2	HUW20ULBE2	HUW20ULBN2	HUW20ULGN2	HUW20ULOE2	HUW20ULRD2	HUW20ULWE2	HUW20ULYW2	
18	HUW18ULBK2	HUW18ULBE2	HUW18ULBN2	HUW18ULGN2	HUW18ULOE2	HUW18ULRD2	HUW18ULWE2	HUW18ULYW2	
16	HUW16ULBK1	HUW16ULBE1	HUW16ULBN1	HUW16ULGN1	HUW16ULOE1	HUW16ULRD1	HUW16ULWE1	HUW16ULYW1	100' Rolls
14	HUW14ULBK1	HUW14ULBE1	HUW14ULBN1	HUW14ULGN1	HUW14ULOE1	HUW14ULRD1	HUW14ULWE1	HUW14ULYW1	
12	HUW12ULBK1	HUW12ULBE1	HUW12ULBN1	HUW12ULGN1	HUW12ULOE1	HUW12ULRD1	HUW12ULWE1	HUW12ULYW1	

MIL-W-16878/1 Type B: .010 Insulation Thickness									
AWG	Part Numbers								
	Black	Blue	Brown	Green	Orange	Red	White	Yellow	
22	HUW22BK2	HUW22BE2	HUW22BN2	HUW22GN2	HUW22OE2	HUW22RD2	HUW22WE2	HUW22YW2	250' Rolls
20	HUW20BK2	HUW20BE2	HUW20BN2	HUW20GN2	HUW20OE2	HUW20RD2	HUW20WE2	HUW20YW2	
18	HUW18BK2	HUW18BE2	HUW18BN2	HUW18GN2	HUW18OE2	HUW18RD2	HUW18WE2	HUW18YW2	

Boat Cable



- Meets Coast Guard & D.O.T. specifications, UL
- Tin plated copper conductors
- Temperatures up to 221°F/105°C Dry and 167°F/75°C wet
- PVC insulation
- 600V



AWG	Number of Conductors	Part No.	
		100'	250'
16	2	BC162WE1	BC162WE2
14	2	BC142WE1	BC142WE2
	3	BC143WE1	BC143WE2
12	2	BC122WE1	BC122WE2
	3	BC123WE1	BC123WE2
10	2	BC102WE1	BC102WE2
	3	BC103WE1	BC103WE2



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Wire & Cable

Saltwater Primary Wire



Marine Tinned Wire and Cables are manufactured from tin coated copper strands for maximum protection against corrosion, electrolysis and resists fatigue due to vibration and fl xing.

Rated at 600 volts and 105°C, the heavy duty insulation is resistant to heat and abrasion. Exceeds all UL1426, US Coast Guard Charterboat (CFR title 46) and ABYC standards.



AWG	Part Numbers – 100' Rolls							
	Black	Blue	Brown	Green	Purple	Red	White	Yellow
16	WSP16BK1	WSP16BE1	WSP16BN1	WSP16GN1	WSP16PE1	WSP16RD1	WSP16WE1	WSP16YW1
14	WSP14BK1	WSP14BE1	WSP14BN1	WSP14GN1	WSP14PE1	WSP14RD1	WSP14WE1	WSP14YW1
12	WSP12BK1	WSP12BE1	WSP12BN1	WSP12GN1	WSP12PE1	WSP12RD1	WSP12WE1	WSP12YW1

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Color	AWG	Part No.	
		25'	100'
Black	18	TPL18BKX	TPL18BK1
Red		TPL18RDX	TPL18RD1

Test Probe Lead Wire

Test Probe Lead (TPL) Wire consists of a tin-plated, stranded copper conductor insulated with soft, fl xible rubber.

- Primarily used for high voltage test leads and jumper wires
- Rated for 5,000V/10A maximum
- Temperature range up to 90°C/194°F
- Military Specific tion Reference: SEN

Super Vu-Tron Supreme Cable

- Stays fl xible in extreme temperatures -50°F to 221°F (-50°C to 105°C)
- High visibility safety yellow
- OSHA Acceptable, UL/CSA.
- Tinned conductors for corrosion resistance
- Resistant to water, oils, sunlight, acids, high heat, flame , chemicals, cuts & abrasion
- Crush Resistant.
- Self-extinguishing cover – protects against flame
- Premium grade EPDM insulation
- See videos on [YouTube](#) – Carol Super Vu-Tron Supreme

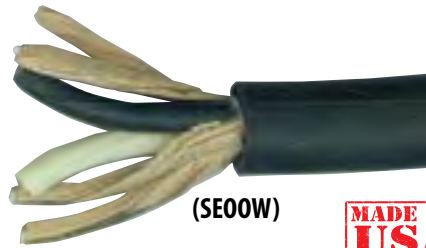
Our best shop cable!

Indoor/outdoor portable cord
500W – 600 Volts



SVS16x2

AWG	Number of Conductors	AMPS	O.D. (in)	Conductors' Insulation Colors	Part No.		
					50'	100'	250'
16	2	13	.370	BK,WE	SVS16x2V	SVS16x21	SVS16x22
	3	13	.395	BK,WE,GN/YW	SVS16x3V	SVS16x31	SVS16x32
	4	10	.425	BK,WE,RD,GN/YW	SVS16x4V	SVS16x41	SVS16x42
14	3	18	.525	BK,WE,GN/YW	SVS14x3V	SVS14x31	SVS14x32
	4	15	.575	BK,WE,RD,GN/YW	SVS14x4V	SVS14x41	SVS14x42
12	3	25	.600	BK,WE,GN/YW	SVS12x3V	SVS12x31	SVS12x32
	4	20	.650	BK,WE,RD,GN/YW	SVS12x4V	SVS12x41	SVS12x42



MADE IN USA

Heavy-Duty Neoprene Shop Cable

- Neoprene insulation – black
- Indoor/outdoor
- 600 Volts AC
- 105°C/221°F

AWG	Number of Conductors	Part No.		
		50'	100'	250'
18	2	–	–	SCH18x2N2
	3	–	–	SCH18x3N2
	4	–	–	SCH18x4N2
16	2	–	–	SCH16x2N2
	3	–	–	SCH16x3N2
	4	–	–	SCH16x4N2
14	3	SCH14x3NV	SCH14x3N1	SCH14x3N2
	4	SCH14x4NV	SCH14x4N1	SCH14x4N2
12	3	SCH12x3NV	SCH12x3N1	SCH12x3N2
	4	SCH12x4NV	SCH12x4N1	SCH12x4N2
10	3	SCH10x3NV	SCH10x3N1	SCH10x3N2
	4	SCH10x4NV	SCH10x4N1	SCH10x4N2

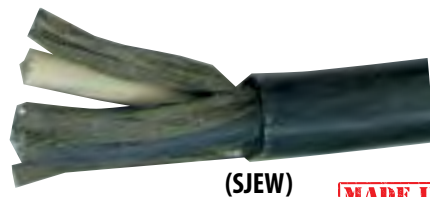


MADE IN USA

Medium-Duty Neoprene Cable

- Neoprene insulation – black
- Indoor/outdoor
- 300 Volts AC
- 105°C/221°F

AWG	Number of Conductors	Part No.
		250'
18	2	SCN18x2BK2
	3	SCN18x3BK3
	4	SCN18x4BK2
16	2	SCN16x2BK2
	3	SCN16x3BK2
	4	SCN16x4BK2
14	2	SCN14x2BK2
	3	SCN14x3BK2
	4	SCN14x4BK2



MADE IN USA

Medium-Duty Rubber Shop Cable

- For general use where flexibility and abrasion resistance are nominal
- Stranded copper wire, covered with paper and a rubber jacket
- Resists alkalis, moisture and low temperature
- 300 Volts AC
- 90°C/194°F

AWG	Number of Conductors	Part No.
		250'
18	2	SCR18x2BK2
	3	SCR18x3BK2
16	2	SCR16x2BK2
	3	SCR16x3BK2
14	2	SCR14x2BK2
	3	SCR14x3BK2
12	2	SCR12x2BK2
	3	SCR12x3BK2





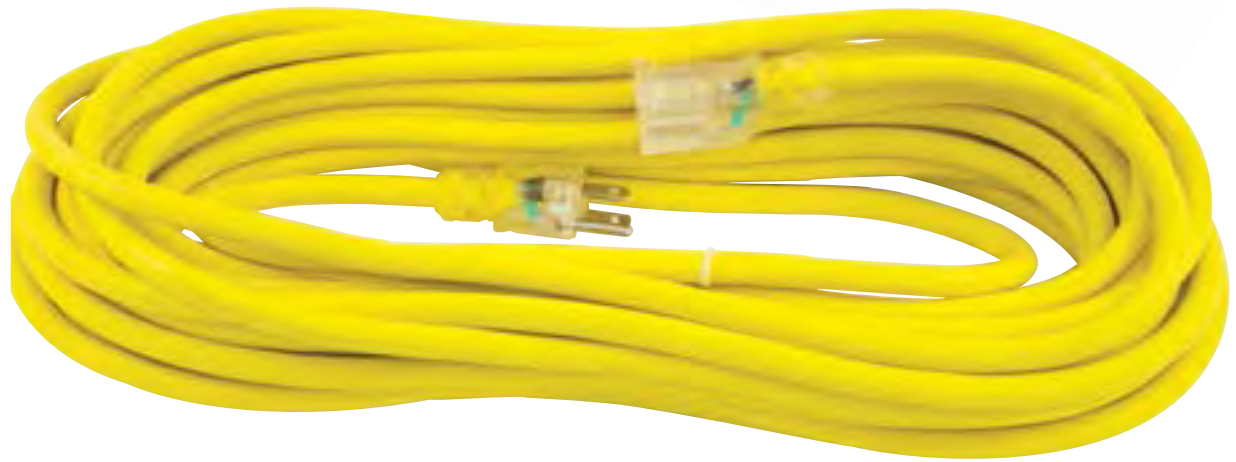
Wire & Cable

Extension Cords With Lighted Ends

- OSHA NRTL Compliant
- 3 conductor SJTW cord
- 15 AMP

**MADE IN
USA**

AWG	Length	Part No.
14	25	SHP0001
	50	SHP0002
	100	SHP0003
12	25	SHP0004
	50	SHP0005



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MIL-QQ-W-343

Ground Strap



- Braided Flat Cable
- Tin Plated Copper
- For grounding and shielding

Width (in)	Approximate AWG	Part No.
		100'
1/8	18	GSBC125
1/4	14	GSBC250
3/8	12	GSBC375
1/2	10	GSBC500



PTFE High-Temp Wire



- PTFE insulation – white
- Silver plated stranded copper
- For high temperature applications up to 392°F/200°C
- [AS22759/11_](#)

AWG	Mil-Spec.	Part No.
		100'
20	M22759/11-20-9	T20WE1
18	M22759/11-18-9	T18WE1
16	M22759/11-16-9	T16WE1
14	M22759/11-14-9	T14WE1
12	M22759/11-12-9	T12WE1
10	M22759/11-10-9	T10WE1



Wire & Battery Cable



- ETFE insulation – white
- Tin plated stranded copper
- Temperature applications up to 302°F/150°C
- 600V
- [AS22759/16_](#)

AWG	Part Numbers						
	Mil Spec.	25'	50'	100'	250'	500'	1000'
24	M22759/16-24-9	–	–	TA241	TA242	TA243	TA244
22	M22759/16-22-9	–	–	TA221	TA222	TA223	TA224
20	M22759/16-20-9	–	–	TA201	TA202	TA203	TA204
18	M22759/16-18-9	–	–	TA181	TA182	TA183	TA184
16	M22759/16-16-9	–	–	TA161	TA162	TA163	TA164
14	M22759/16-14-9	–	–	TA141	TA142	–	–
12	M22759/16-12-9	–	–	TA121	TA122	–	–
10	M22759/16-10-9	–	–	TA10WE1	–	–	–
8	M22759/16-8-9	–	–	TA8WE1	–	–	–
6	M22759/16-6-9	TA6WEX	TA6WEV	–	–	–	–
4	M22759/16-4-9	TA4WEX	–	–	–	–	–
2	M22759/16-2-9	TA2WEX	–	–	–	–	–



Aviation Wire & Cable

AWG	Mil-Spec.	1 Conductor
		Part No. 100'
24	M27500-24TE1T14	TAS124WE1
22	M27500-22TE1T14	TAS122WE1
20	M27500-20TE1T14	TAS120WE1
18	M27500-18TE1T14	TAS118WE1



MADE IN USA

Shielded Cable

- ETFE insulation - white
- Tin plated stranded copper conductors
- Tin plated copper shield
- 1, 2 & 3 conductor cables
- Temperatures up to 302°F/150°C
- 600V

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AWG	Mil-Spec.	2 Conductors
		Part No. 100'
24	M27500-24TG2T14	TAS224WE1
22	M27500-22TE2T14	TAS222WE1
20	M27500-20TE2T14	TAS220WE1
18	M27500-18TE2T14	TAS218WE1



AWG	Mil-Spec.	3 Conductors
		Part No. 100'
24	M27500-24TG3T14	TAS324WE1
22	MS27500-22TE3T14	TAS322WE1
20	MS27500-20TE3T14	TAS320WE1
18	M27500-18TE3T14	TAS318WE1





**WRK1
Assortment**

Part No. WRK1 7 Pieces (Comes with a WR30 wire rack)				
Description	AWG	Qty	Color	Part No.
Vinyl Insulation Wire	10	100'	Black	PC10BK1
	12		Black	PC12BK1
	12		Red	PC12RD1
	14		Brown	PC14BN1
	14		Black	PC14BK1
	14		Red	PC14RD1
	14		White	PC14WE1
Rack	—	1	—	WR30



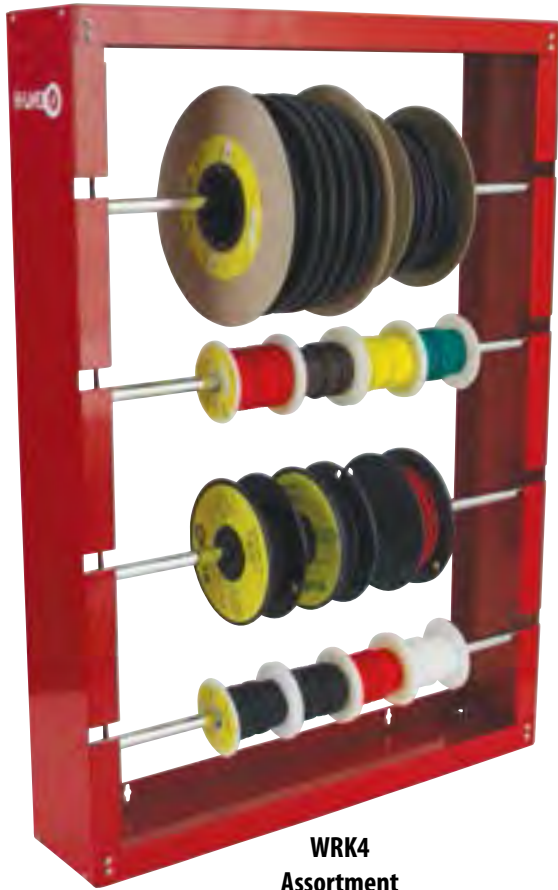
**WRK3
Assortment**

Part No. WRK3 14 Pieces (Comes with a WR411 wire rack)					
Description	AWG	Qty	Color	Part No.	
Vinyl Insulation Wire	8	100'	Red	BCF8RD1	
	10		Black	PC10BK1	
	10		Red	PC10RD1	
	12		Black	PC12BK1	
	12		Red	PC12RD1	
	12		White	PC12WE1	
	Vinyl Insulation Wire	14	250'	Black	PC14BK2
		14		Brown	PC14BN2
		14		Green	PC14GN2
		14		Red	PC14RD2
14		White		PC14WE2	
14		Yellow		PC14YW2	
Split Loom	1/4"	50'	Black	SPL4V	
	1/2"			SPL8V	
Rack	—	1	—	WR411	



Wire & Cable Assortments

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WRK4 Assortment

Part No. WRK4 12 Pieces (Comes with a WR411 wire rack)				
Description	AWG	Qty	Color	Part No.
Cross-Link Wire	14	50'	Black	HC14BKV
			Brown	HC14BNV
			Green	HC14GNV
			Red	HC14RDV
			White	HC14WEV
			Yellow	HC14YWV
Cross-Link Wire	12	50'	Black	HC12BKV
			Red	HC12RDV
Cross-Link Wire	10	50'	Black	HC10BKV
			Red	HC10RDV
Loom	–	50'	Black	SPL4V
				SPL8V
Rack	–	1	–	WR411



WRK5 Assortment

Part No. WRK5 8 Pieces (Comes with a WR22 wire rack)				
Description	AWG	Qty	Color	Part No.
Cross-Link Wire	14	50'	Black	HC14BKV
			Brown	HC14BNV
			Green	HC14GNV
			Red	HC14RDV
			White	HC14WEV
			Yellow	HC14YWV
Loom	–	50'	Black	SPL4V
				SPL6V
Rack	–	1	–	WR22





WIRE MANAGEMENT

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I.D. Size (in)	AD Clamps	ADH Clamps
1/8	AD2	ADH2
3/16	AD3	ADH3
1/4	AD4	ADH4
5/16	AD5	ADH5
3/8	AD6	ADH6
7/16	AD7	ADH7
1/2	AD8	ADH8
9/16	AD9	ADH9
5/8	AD10	ADH10
11/16	AD11	ADH11
3/4	AD12	ADH12
13/16	AD13	ADH13
7/8	AD14	ADH14
15/16	AD15	ADH15
1	AD16	ADH16
1-1/16	AD17	ADH17
1-1/8	AD18	ADH18
1-3/16	AD19	ADH19
1-1/4	AD20	ADH20
1-5/16	AD21	ADH21
1-3/8	AD22	ADH22
1-1/2	AD24	ADH24
2	AD32	ADH32



AD_Clamp

Adel-Style Clamps (Black)
 AD (Black) Aluminum Clamps Adel Type **MS21919** (WDG) Chloroprene cushion provides excellent resistance to petroleum-based products and ozone. Clamps are designed for use on air-conditioning lines, fuel lines, air lines, condensation lines, freon lines, as well as harnesses and cable assemblies. Aluminum is spring hardened to add strength and prevent mashing. Wedge-base design assists in aligning #10 mounting holes and encloses insulation to 360°F. For temperature applications up to 212°F. **MIL-C-8603/AS21919**.



ADH_Clamp

Adel-Style Clamps (White)
 ADH (White) Silicone, High Temperature Clamps Adel Type **MIL-C-8603/MS21919/AS21919** (WCH) Clamps with a corrosion resistant steel band. Temp. range: -80°F to 450°F. For elevated temperature usage (400°F) and unaffected by ozone. #10 mounting holes.



1/4" Mounting Hole

Cable Clamps Rubber Cushion

Similar to Hi-Line's AD series, but have steel clips. Great for trucks.

I.D. Size (in)	Part No.
1/4	CCL14
3/8	CCL38
1/2	CCL12
5/8	CCL58
3/4	CCL34
1	CCL1
1-1/8	CCL118
1-1/4	CCL114
1-3/8	CCL138
1-5/8	CCL158
1-1/2	CCL112
1-3/4	CCL134
2	CCL2
2-1/8	CCL218
2-1/4	CCL214
2-3/8	CCL238
2-1/2	CCL212
3	CCL3



13/32" Mounting Hole
*17/32" Mounting Hole

Cable Clamps **MADE IN USA** Heavy-Duty Vinyl-Coated

Same as our Medium-Duty Steel Clips but constructed of .014 thicker steel for heavy-duty applications.

I.D. Size (in)	Part No.
1/4	HDC4
5/16	HDC5
3/8	HDC6
1/2	HDC8
5/8	HDC10
3/4	HDC12
7/8	HDC14
1	HDC16
1-1/4	HDC20*
1-1/2	HDC24*
2	HDC32*
2-1/4	HDC36*
2-1/2	HDC40*
2-3/4	HDC44*
3	HDC48*



9/32" Mounting Hole

Cable Clamps **MADE IN USA** Medium-Duty Vinyl-Coated

Zinc-coated steel for rust prevention with a heavy coating of vinyl plastic to provide a cushion against damage from vibration, rubbing, slipping, cutting, twisting and creeping. High grade steel construction assures strength and durability for the life of the equipment on which they are used.

I.D. Size (in)	Part No.
1/8	MDC2
1/4	MDC4
5/16	MDC5
3/8	MDC6
1/2	MDC8
5/8	MDC10
3/4	MDC12
7/8	MDC14
1	MDC16
1-1/4	MDC20
1-1/2	MDC24
2	MDC32
2-1/2	MDC40





Clips & Clamps

Adjustable Clips



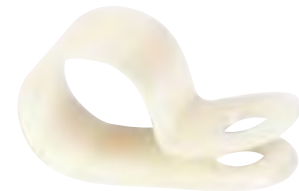
Locks securely and easily re-opens for routing changes. Works in a service temperature range 0°F–120°F continuous.



Adhesive Back

Bundle Dia. (in)	Bundle Dia. (mm)	Size (in)	Size (mm)	Part No.
5/16 – 13/32	9.94 – 10.31	1 × 3/4	25.40 × 18.65	AKK2
15/32 – 9/16	11.91 – 14.29	1-1/4 × 3/4	31.75 × 18.65	AKK3
37/64 – 3/4	14.68 – 19.05	1-1/2 × 3/4	38.10 × 18.65	AKK4
7/8 – 1	22.23 – 25.40	2 × 1	50.80 × 25.40	AKK5

I.D. Size (in)	Part No.	
	White	Black
1/8	NY2	NY2B
3/16	NY3	NY3B
1/4	NY4	NY4B
5/16	NY5	NY5B
3/8	NY6	NY6B
7/16	NY7	NY7B
1/2	NY8	NY8B
9/16	NY9	NY9B
5/8	NY10	NY10B
3/4	NY12	NY12B
7/8	NY14	NY14B
1	NY16	NY16B
1-1/4	NY20	–
1-1/2	NY24	–

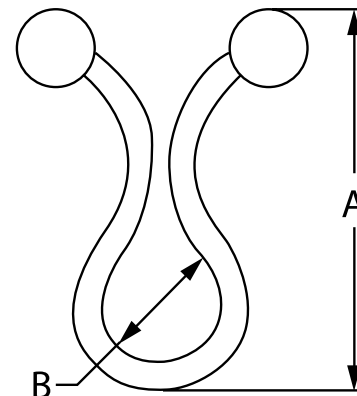


3/16" Mounting Hole

Nylon Clamps



Provides a tight grip on wires, tubing, hose, air lines, fuel lines and control cables. For applications with temp. ranges of -20°F to 120°F. Heavy-duty 1/2" width. Meets U.L. 94V-2 flammability classification. Meets U.L. 94V-0 fire retardation specification.



Twist Locks

- Designed to twist and lock cable bundles in place
- Made of heavy duty extruded nylon
- Makes repositioning cables easy
- Rounded ends will not snag or damage cable insulation

Max. Bundle Dia. (B)	A	Part No.
.4"	1.03"	WGT0001
.65"	1.33"	WGT0002
.8"	1.55"	WGT0003
1"	1.7"	WGT0004



Electrical Terminal Nipple (Boot)



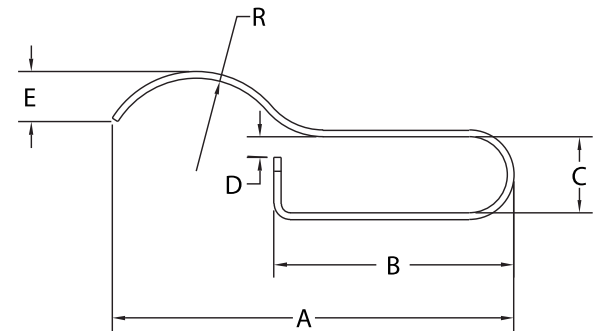
Silicone cover for cable to terminal electrical protection.

End Openings					
Length	A	B	Mil-Spec	SAE Spec.	Part No.
1-3/8"	13/32"	5/32"	MS25171-1S	A-A-59178-1	TN711
2-1/2"	9/16"	5/16"	MS25171-2S	A-A-59178-2	TN712
2-1/2"	9/16"	7/16"	MS25171-3S	A-A-59178-3	TN713
2-1/2"	9/16"	9/16"	MS25171-4S	A-A-59178-4	TN714

Frame and Body Clamps

Spring steel with black zinc plating to resist rust and corrosion. Push over wire harnesses, cables and tubing. No tool required – won't slip off. D.O.T. and S.A.E. approved.

R (in)	A (in)	B (in)	C (in)	Part No.
0.25	1.135	0.725	0.205	FC100
0.375	1.715	0.945	0.205	FC101
0.375	1.6	0.945	0.385	FC102



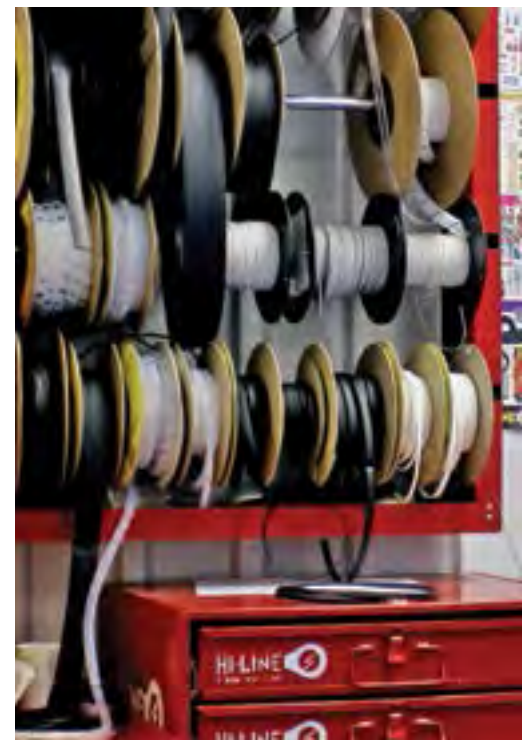
"Plated Steel" Mounting and Tie Down Clamps

Zinc-plated steel for strength and durability. Attach to metal, wood or plastic with rivet, screw or bolt to hold down wires, tubing, air lines, cables and fuel lines.

I.D. Size (in)	Part No.
1/8	FCB2
3/16	FCB3
1/4	FCB4
5/16	FCB5



3/16" Mounting Hole





Wraps & Looms

Poly Spiral-Wrap



Spiral cut, flexible tubing. Operating temp. range of 101°C/215°F. Available in clear or ultraviolet-resistant black polyethylene. A-A 59602-1-A (clear); A-A 59602-1-B (black)



I.D. Size (in)	Bundle Range (in)		Part No.				
	Min	Max	Clear 25'	Clear 50'	Black 25'	Black 50'	Black 100'
1/8	1/16	1/2	–	SW2CRV	–	SW2BKV	–
1/4	3/16	2	–	SW4CRV	–	SW4BKV	–
3/8	5/16	3	–	SW6CRV	–	SW6BKV	–
1/2	3/8	4	–	SW8CRV	–	SW8BKV	SW8BK1
3/4	3/4	5	SW12CRX	SW12CRV	SW12BKX	SW12BKV	SW12BK1
1	1	7	SW16CRX	SW16CRV	SW16BKX	SW16BKV	–



PTFE Spiral-Wrap



Non-flammable PTFE and has an operating temp. range of 268°C/-450°F to 260°C/500°F. 25 ft. put-ups. Available in clear only. MIL-I-22129C, A-A 59602-1-3

Vinyl Tubing Loom



-65°C/-85°F to a operating temperature 175°F and is flame resistant. Military Specification MIL-I-7444D. Also known as Spaghetti Loom.

Outside Diameter (in)	Bundle Range (in)		Part No.
	Min	Max	25'
1/16	1/16	1/4	SWTF1X
1/8	1/16	1/2	SWTF2X
3/16	1/8	1-1/2	SWTF3X
1/4	3/16	2	SWTF4X
3/8	5/16	2-1/2	SWTF6X
1/2	3/8	3	SWTF8X
3/4	1/2	4	SWTF12X
1	3/4	5	SWTF16X

I.D. Size (in)	Put-Ups (ft)	Part No.	
		25'	50'
1/16	50	–	VT1V
1/8	50	–	VT2V
3/16	50	–	VT3V
1/4	50	–	VT4V
5/16	50	–	VT5V
3/8	25/50	VT6X	VT6V
1/2	25/50	VT8X	VT8V



Woven Loom



Tubular conduit. Made of cotton impregnated inside and out with a black asphaltic compound which resists acids, moisture, oils, grease, salt and solvents. 100 ft. put-ups.

I.D. Size (in)	Part No.
3/16	AL3BK1
1/4	AL4BK1
5/16	AL5BK1
3/8	AL6BK1
1/2	AL8BK1
5/8	AL10BK1
3/4	AL12BK1
1	AL16BK1



Expandable Looms



Flame Retardant ELFR



High Temperature ELHR



Flame Retardant

- Flame retardant sleeving
- Tight weave FR replaces standard aviation grade FR
- The 9 mil tight weave results in a fuller coverage over the wire harness yet weighs no more than the original 10 mil standard weave while providing increased abrasion protection
- VW-1, Mil-202, FAR 25 approved
- Cut and abrasion resistant
- Resists gasoline and engine chemicals
- Halogen free
- Temperature range: -94°F to 257°F
- Melt temperature: 482°F

High Temperature Resistant

- Self-extinguishing with very low outgassing
- UL flame resistant VW-1, UL 2024 & NFPA 262 plenum specifications
- Exceeds FMVSS 302 and FAR 25
- Resistant to a wide range of corrosive chemicals and organic solvents
- Cut and abrasion resistant
- Temperature range: -103°F to 302°F
- Melt temperature: 482°F

Flame Retardant

Nominal Diameter (in)	Minimum Diameter (in)	Maximum Diameter (in)	Part No.					
			25 ft	50 ft	100 ft	250 ft	500 ft	1,000 ft
1/4	9/64	13/32	ELFR4BKX	ELFR4BKV	ELFR4BK1	ELFR4BK2	ELFR4BK3	ELFR4BK4
1/2	9/32	5/8	ELFR8BKX	ELFR8BKV	ELFR8BK1	ELFR8BK2	ELFR8BK3	ELFR8BK4
3/4	1/2	1	ELFR12BKX	ELFR12BKV	ELFR12BK1	ELFR12BK2	ELFR12BK3	ELFR12BK4
1	5/8	1-1/4	ELFR16BKX	ELFR16BKV	ELFR16BK1	ELFR16BK2	-	-

High Temperature Resistant

Nominal Diameter (in)	Minimum Diameter (in)	Maximum Diameter (in)	Part No.					
			25 ft	50 ft	100 ft	250 ft	500 ft	1,000 ft
1/4	1/8	7/16	ELHR4WEX	ELHR4WEV	ELHR4WE1	ELHR4WE2	ELHR4WE3	ELHR4WE4
1/2	1/4	3/4	ELHR8WEX	ELHR8WEV	ELHR8WE1	ELHR8WE2	ELHR8WE3	ELHR8WE4
3/4	1/2	1-1/4	ELHR12WEX	ELHR12WEV	ELHR12WE1	ELHR12WE2	ELHR12WE3	ELHR12WE4



Wraps & Looms



Convoluted Split Loom

A split-seam, convoluted plastic tubing designed to provide a flexible conduit for routing and protecting wire bundles. A hinged "T" connector allows 90° branch circuits and provides a neat, tailored junction. Operating temp. range from -40°F to 200°F. Made with Polyethylene.

I.D. Size (in)	Part No. / Put-Up			
	50'	100'	250'	500'
1/4	SPL4V	SPL41	SPL42	SPL43
5/16	SPL5V	SPL51	SPL52	SPL53
3/8	SPL6V	SPL61	SPL62	SPL63
1/2	SPL8V	SPL81	SPL82	SPL83
5/8	SPL10V	SPL101	SPL102	SPL103
3/4	SPL12V	SPL121	SPL122	SPL123
1	SPL16V	SPL161	SPL162	SPL163
1-1/4	SPL20V	SPL201	SPL202	SPL203
1-1/2	SPL24V	SPL241	SPL242	SPL243
2	SPL32V	SPL321	—	—



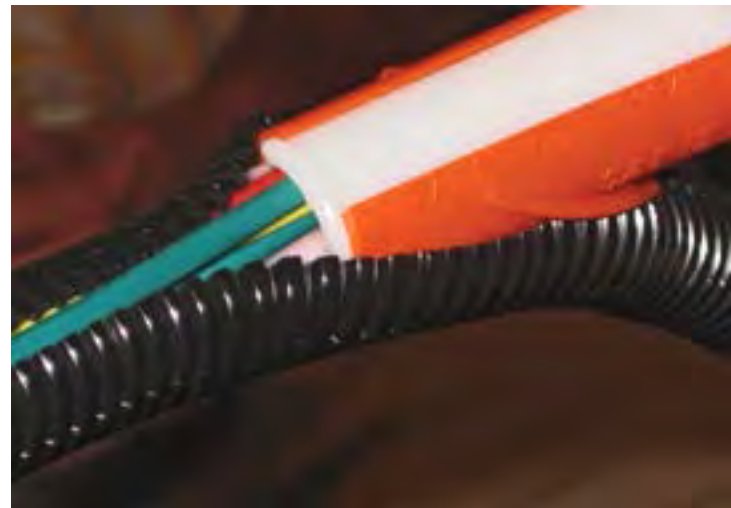
PTFE Convoluted Split Loom

MIL Spec M81914/1

Convoluted tubing for electrical conduit. Used in high temperature applications and high corrosive atmospheres such as engine compartments and salt water environments. Also used in aircraft and military equipment. Operating temp. range -70°C to 250°C (500°F). Available in 10 ft. and 25 ft. put-ups.



Outside Diameter (in)	Part No.	
	10'	25'
1/4	SPLM4Z	SPLM4X
5/16	SPLM5Z	SPLM5X
3/8	SPLM6Z	SPLM6X
1/2	SPLM8Z	SPLM8X
5/8	SPLM10Z	SPLM10X
3/4	SPLM12Z	SPLM12X
1	SPLM16Z	SPLM16X



Loom Applicator

For use with Split Loom & F6 Loom.

Max. Bundle Dia. (in)	Mfg. Code on Tool	Part No.
0.24	CAT05	CAT1
0.37	CAT08	CAT2
0.63	CAT15	CAT3
0.79	CAT20	CAT4
0.96	CAT25	CAT5
1.22	CAT32	CAT6



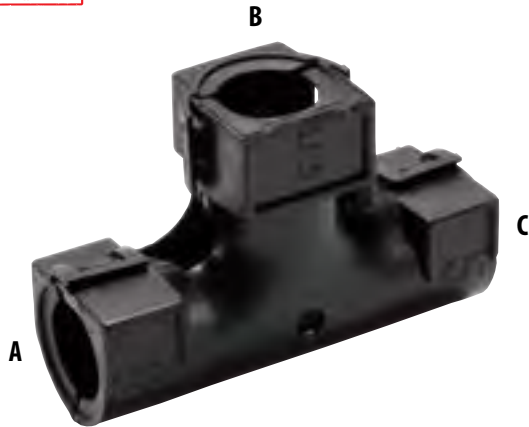
CAT2 & Larger



CAT1



MADE IN USA



Split Loom Tee			
Fits Loom			Part No.
A (in)	B (in)	C (in)	
3/8	1/4-5/16	1/4-5/16	SPLT7X4X4
3/8	3/8	3/8	SPLT7X7X7
1/2	1/2	1/2	SPLT
1/2	3/8	3/4	SPLT8X4X12
3/4	1/4-5/16	3/4	SPLT12X4X12
3/4	1/2	3/4	SPLT12X8X12
3/4	3/4	1/2	SPLT12X12X8



SPLC6

Split Loom Outlet		
Fits Loom		Part No.
A (in)	B (in)	
3/8	3/8	SPL06X6
3/8	1/2	SPL06X8
1/2	1/2	SPL08X8

Split Loom Clip	
Fits Loom (in)	Part No.
1/4 - 5/16	SPLC4
3/8	SPLC6
1/2	SPLC8
3/4	SPLC12

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Wraps & Looms



F6 Black Loom

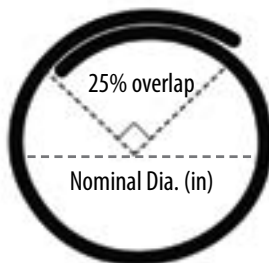
F6's split, semi-rigid construction makes it the ideal loom for situations where ease of installation is of primary importance. The lateral split allows the tube to open up to accommodate a wide variety of bundling requirements.

- Semi-rigid braid simply closes around the entire installation without the need of any tape, hook & loop or other fasteners
- Made of Polyethylene Terephthalate (PET) braid – lightweight, soft and quiet in high vibration applications
- Cut & abrasion resistant, Chemically inert
- Temperature range -94°F to 257°F continuous
- Melting point 482°F
- Unique self-wrapping split braided construction allows easy installation over long lengths
- Easy additions and removal of wires without disassembly
- Will bend on a tight radius without distorting or splitting open
- Perfect when frequent access to bundles is required
- Easy harness management, even with multiple breakouts

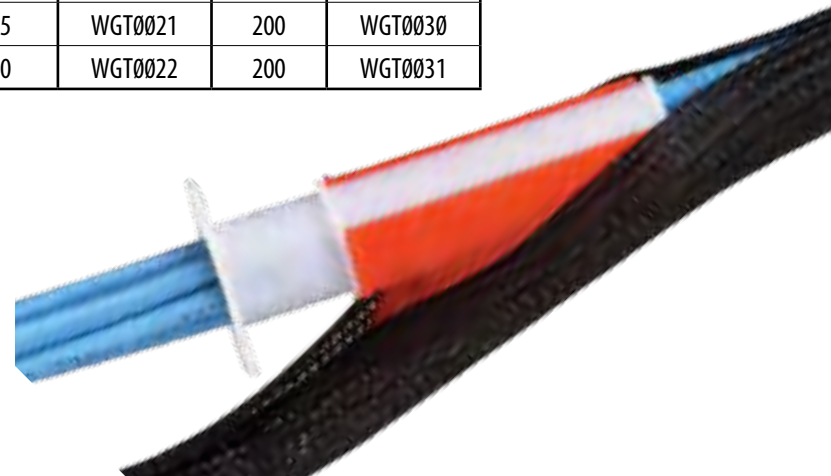


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Nominal Dia. (in)	Wall Thickness (in)	Small Box		Intermediate Box		Large Box	
		Feet Per Box	Part No.	Feet Per Box	Part No.	Feet Per Box	Part No.
1/8	0.024	100	WGT0005	400	WGT0014	10,000	WGT0023
1/4	0.025	100	WGT0006	200	WGT0015	3,000	WGT0024
3/8	0.025	75	WGT0007	150	WGT0016	1,500	WGT0025
1/2	0.025	75	WGT0008	150	WGT0017	1,200	WGT0026
3/4	0.025	50	WGT0009	100	WGT0018	500	WGT0027
1	0.038	50	WGT0010	100	WGT0019	400	WGT0028
1-1/4	0.038	25	WGT0011	75	WGT0020	250	WGT0029
1-1/2	0.038	25	WGT0012	75	WGT0021	200	WGT0030
2	0.038	25	WGT0013	50	WGT0022	200	WGT0031



The 25% edge overlap (at nominal diameter) allows easy installation over splices and connectors without exposing wires & ensures complete coverage, even in tight radius situations.





Rubber Grommets

Excellent protection for wires and cables routed through holes in sheet metal, plastic, or any material where sharp edges may damage wire insulation. Constructed of molded, natural rubber (30-90 Duro). Working temp. range of -60°F through 180°F. High resilience factor.

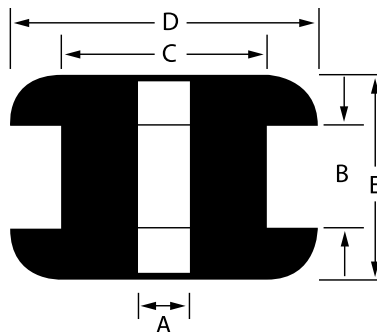
Bore Diameter	Groove Width	Groove Diameter	Outside Diameter	Overall Thickness	Part No.
A (in)	B (in)	C (in)	D (in)	E (in)	
1/8	1/16	1/4	11/32	3/16	RG18
3/16	1/16	5/16	7/16	5/16	RG316
1/4	1/16	7/16	5/8	3/16	RG14
1/4	3/16	7/16	5/8	5/16	RG14W
5/16	1/16	9/16	13/16	5/16	RG56
5/16	3/16	9/16	13/16	7/16	RG56W
3/8	1/16	5/8	7/8	5/16	RG38
3/8	3/16	5/8	7/8	7/16	RG38W
1/2	1/16	13/16	1-1/16	5/16	RG12
1/2	3/8	3/4	1	5/8	RG0807
1/2	3/16	13/16	1-1/16	7/16	RG12W
5/8	1/16	7/8	1-1/8	5/16	RG58
5/8	3/16	7/8	1-1/8	7/16	RG58W
3/4	1/16	1-1/16	1-3/8	3/8	RG34
3/4	3/16	1-1/16	1-3/8	1/2	RG34W
1	1/16	1-3/8	1-3/4	7/16	RG1
1	3/16"	1-3/8	1-3/4	9/16	RG1W



Mil-Spec Rubber Grommets

Made from black Buna-N rubber. Shore A durometer hardness of 50. Temperature range is -45°F to 250°F.

Bore Diameter	Groove Width	Groove Diameter	Outside Diameter	Overall Thickness	Part No. Mil-Spec
A (in)	B (in)	C (in)	D (in)	E (in)	
1/8	1/16	1/4	11/32	3/16	MS354891
1/8	1/16	9/16	3/4	3/16	MS354892
1/8	1/16	1	1-1/4	1/4	MS354893
3/16	1/16	5/16	7/16	3/16	MS354894
1/4	1/16	7/16	5/8	3/16	MS354896
1/4	3/16	7/16	5/8	5/16	MS3548964
5/16	1/16	9/16	13/16	5/16	MS354899
5/16	1/16	3/4	1	5/16	MS3548910
3/8	1/16	5/8	7/8	5/16	MS3548911
3/8	1/16	1	1-1/4	1/4	MS3548912
1/2	1/16	13/16	1-1/16	5/16	MS3548914
1/2	1/16	1-1/4	1-1/2	1/4	MS3548915
1/2	1/4	1-3/16	1-1/16	1/2	MS35489101
5/8	1/16	7/8	1-1/8	5/16	MS3548917
5/8	1/16	1-1/4	1-1/2	1/4	MS3548918
3/4	1/16	1-1/16	1-3/8	3/8	MS3548920
3/4	1/16	1-1/4	1-5/8	1/4	MS35489135
3/4	1/4	1-1/16	1-3/8	9/16	MS35489107
1	1/16	1-3/8	1-3/4	7/16	MS3548923





Grommets

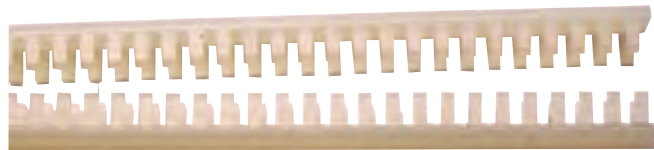


Continuous Grommet (GM Caterpillar Grommet)



Flexible feature allows material to fit in regular shaped openings where ordinary rubber grommets will not work. U.L. listed. Standard packaging in 10 ft. lengths.

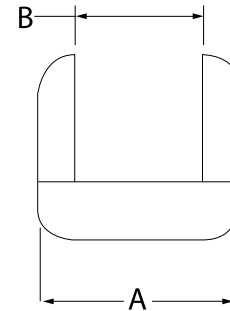
Panel Thickness (in)	Part No.
1/32	GM32
1/16	GM1
1/8	GM2
3/16	GM3
1/4	GM4
5/16	GM5



Edging Grommet – Mil-Spec



Natural Color 6.6 Nylon. Temperature Range -40°F to 149°F (-40°C to 65°C). UL94 V-2 Flammability Rating. 1 ft. lengths.



Sheet Thickness	Width		Part No. Mil-Spec
	A	B	
.015-.052	0.15	0.056	MS212661N
.052-.085	0.175	0.09	MS212662N
.085-.128	0.22	0.131	MS212663N
.128-.192	0.325	0.195	MS212664N

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Nylon Liquidtight Strain Relief Connector – Straight



Cord Dia. Range	Hub Size (in)	Min. Throat Dia.	Part No.
.250–.400	1/2	.55	SRL12540
.400–.560	1/2	.55	SRL14056
.560–.690	3/4	.79	SRL15669
.660–.780	3/4	.79	SRL16678

Nylon Liquidtight Strain Relief Connector – 90° Elbow



Cord Dia. Range	Hub Size (in)	Min. Throat Dia.	Part No.
.250–.400	1/2	.55	SRL22540
.400–.560	1/2	.55	SRL24056
.560–.690	3/4	.78	SRL25669
.660–.780	3/4	.78	SRL26678

Sealing – Locknuts



Size (in)	Part No.
1/2	SRL1
3/4	SRL2

Sealing Rings



With Stainless Steel Retainer



Size (in)	Part No.
1/2	SRLR1
3/4	SRLR2



Strain Relief Bushings – Round Cable

Will Fit These Cables				Chassis Dimensions								
UL Type Designation	AWG Conductors	Approx. Diameter		Mounting Hole Dia.		Prevent Rotation		Maximum Thickness		Body Length		Part No.
		in	mm	in	mm	in	mm	in	mm	in	mm	
SJ, SJT, SJO	16/2	.325	8.3	.625	15.9	.550	14.0	.062	1.6	.578	14.7	SRBR1
	18/3	.330	8.4									
	14/2	.350	8.9									
	16/3	.355	9.0									
	18/4	.360	9.1									
SJ, SJT, SJO	18/2	.300	7.6	.625	15.9	.550	14.0	.156	4.0	.678	17.2	SRBR2
	16/2	.325	8.3	.656	16.7							
	18/3	.330	8.4	.656	16.7							
	16/3	.355	9.0	.687	17.4							



Wire Markers



SRBF3



Strain Relief Hand Pliers
SRBT



Strain Relief Bushings – Flat Cable

Will Fit These Cables				Chassis Dimensions															
UL Type Designation	AWG Conductors	Approx. Size		Mounting Hole Dia.		Prevent Rotation		Maximum Thickness		Body Length		Part No.							
		in	mm	in	mm	in	mm	in	mm	in	mm								
SPT-1	18/3	.12 × .30	3.0 × 7.6	.500	12.7	.406	11.7	.095	2.4	.500	12.7	SRBF1							
SPT-2, HPN	18/2	.15 × .28	3.8 × 7.1																
HPN	18/3	.15 × .34	3.8 × 8.6																
SPT-2, HPN	16/2	.16 × .30	4.1 × 7.6																
SPT-1	18/3	.12 × .30	3.0 × 7.6	.500	12.7	.465	11.8	.062	1.6	.406	10.3	SRBF2							
HPN	18/2	.15 × .28	3.8 × 7.1																
SPT-2	18/2	.19 × .35	4.8 × 8.9	.562	14.3								.530	13.5	.062	13.5	.609	15.5	SRBF3
	16/2	.20 × .37	5.1 × 9.4																
SPT-3	18/3	.15 × .40	3.8 × 10.2																
	16/3	.16 × .41	4.1 × 10.4																

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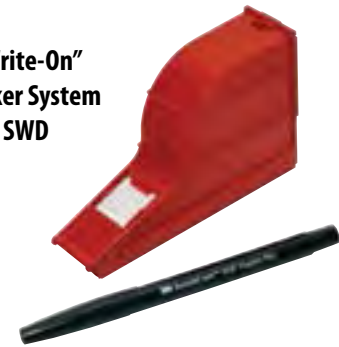
Write-On Tape Dispenser and Marking Pen

Part No: SWD

The disposable Write-On Tape Dispenser contains 250 die-cut markers with Marking Pen. 3/4" × 1-3/8" markers have a 3/4" × 5/16" write-on area. O.D. range is 22–6 AWG. #MPBK for replacement pen.



"Write-On"
Marker System
SWD



Wire Marker Cards

Part No: WM_

Wire Marking Systems in individual card form. Available in individual markers (1) thru (99) and (A) thru (Z). 36 markers per card 1.50" length.



WM_



Wire Marker Tape Dispenser Kit

Part No: STD

The refillable STD Wire Marker Kit comes pre-stocked with Nos. 0 through 9 wire marker tapes.



Wire Marker Kit STD



Wire Marker Tape Refill Rolls

Part No: STDR_

Refills for STD Wire Marker Tape Dispenser Kit. (8 ft. rolls available in: A-Z, L1-L3, T1-T3, POS., NEG., 0-9, 10-19, 20-29, 30-39, 40-49.)

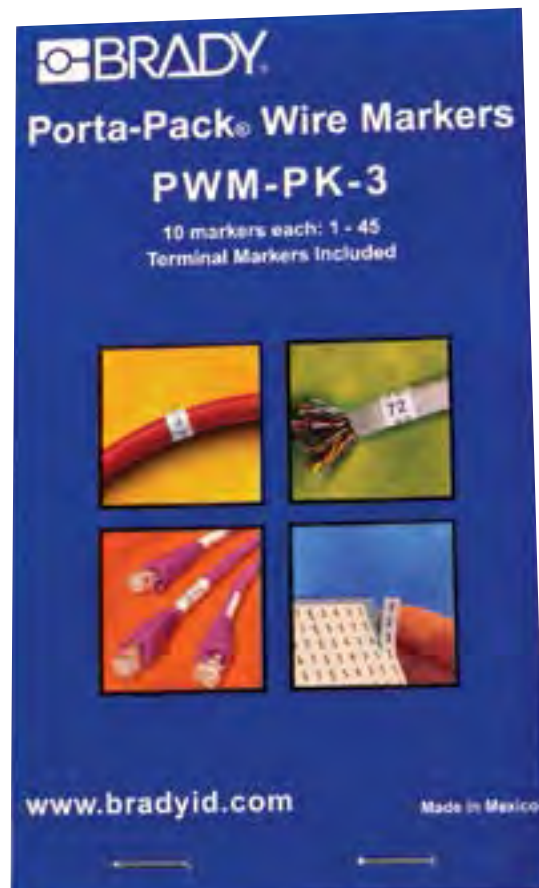


Refills STDR_



"Porta-Pack" Wire Markers & Matching Terminal Markers

Handy pocket size assortments.



Color Wire Marker Tape Dispenser Kit

(Comes in 8 ft. rolls)

Color	Part No.
Black	STDRBK
Blue	STDRBE
Brown	STDRBN
Green	STDRGN
Gray	STDRGY
Orange	STDROE
Red	STDRRD
Violet	STDRVE
White	STDRWE
Yellow	STDRYW

Wire Marker Kit

Part No: STDC



STDC

Empty Dispenser

Part No: STDD

Legend	Markers Each Legend	Part No.
0-9	45	PK1
A-Z 0-15, +, -, /	10	PK2
1-45	10	PK3
1, 2, 3	150	PK4
A, B, C	150	PK5
T1, T2, T3	150	PK6
L1, L2, L3	150	PK7
1-15	6	PK8
16-90	4	
A-Z+, -, /, 0	2	
1, 2, 3, A, B, C	45	PK9
T1, T2, T3, L1, L2, L3	30	
10 different NEMA colors	45	PK10
1-30	15	PK11
A-Z	15	PK12
Write-On Labels (Blank)	18	
+	8	
-	7	
+, -, AC, DC	45	PK13
POS, NEG, GND, NEUT	33	
Spare	21	
Blank Write-On Labels	21	
46-90	10	
1-90	5	PK14
		PK15



Terminal Blocks

Terminal Blocks

- For general purpose electronic & electrical work
- Helps reduce splicing & conserve panel space
- Double row / barrier block, UL rated thermoplastic
- Tin plated brass connections with tin plated steel, Phillip/ Slotted combo drive screws

300V Terminal Blocks 30 Amp #6-32 Screw

Poles	Part No.
2	FTB1002
3	FTB1003
4	FTB1004
5	FTB1005
6	FTB1006
7	FTB1007
8	FTB1008
10	FTB10010
12	FTB10012
14	FTB10014
18	FTB10018
20	FTB10020
22	FTB10022

300 VOLTS



Terminal Block Hardware

Jumper Tab

Part No: FTB101J



Kwik-on Flat Double .250 Tab

Part No: FTBTSD



Kwik-on 45° Double .187 Tab

Part No: FTBT45D



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600V Terminal Block 30 Amp #8-32 Screw

Poles	Part No.
2	FTB3002
3	FTB3003
4	FTB3004
5	FTB3005
6	FTB3006
7	FTB3007
8	FTB3008
9	FTB3009
10	FTB30010
12	FTB30012
14	FTB30014
18	FTB30018
20	FTB30020
24	FTB30024

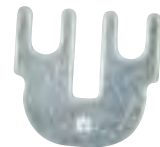
600 VOLTS



Terminal Block Hardware

Flat Slip-on Jumper Tab

Part No: FTB301J



Closed Over Barrier Jumper Tab

Part No: FTB300J



Kwik-on Flat Single Tab

Part No: FTBTSS





Junction Block - Stud Type

- Heavy-duty ground or power connection points, A/C or D/C
- 250 Amp
- 3/8"-16 Studs

Color	Part No.
Red	JB1RD
Black	JB1BK



Junction Block - Terminal Strip Single-Row

- For truck, RVs and wiring accessories
- 30 amp, 300 Volts
- #10-32 Studs

Poles	Part No.
3	JB3BC
6	JB6BC
8	JB8BC



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Wire Management Assortments

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Adel-Style Clamps

Full Assortment
Part No. ADK1
100 Pieces (Includes a PBADJ parts bin)

Back of Drawer			
 3/8" ADEL-STYLE CLAMP MS21919WDG AD6	10	 3/4" ADEL-STYLE CLAMP MS21919WDG AD12	10
 5/16" ADEL-STYLE CLAMP MS21919WDG AD5	10		
 1/4" ADEL-STYLE CLAMP MS21919WDG AD4	10	 5/8" ADEL-STYLE CLAMP MS21919WDG AD10	10
 3/16" ADEL-STYLE CLAMP MS21919WDG AD3	10		
 1/8" ADEL-STYLE CLAMP MS21919WDG AD2	10	 1/2" ADEL-STYLE CLAMP MS21919WDG AD8	10
		 1" ADEL-STYLE CLAMP MS21919WDG AD16	5
		 7/8" ADEL-STYLE CLAMP MS21919WDG AD14	5
		 1-1/2" ADEL-STYLE CLAMP MS21919WDG AD24	5
		 1-1/4" ADEL-STYLE CLAMP MS21919WDG AD20	5
Front of Drawer			

























Adel-Style Clamps

Full Assortment

Part No. ADK2

165 Pieces (Includes a PBADJ parts bin)












Back of Drawer			
 7/16" ADEL-STYLE CLAMP MS21919WDG AD7	10	 13/16" ADEL-STYLE CLAMP MS21919WDG AD13	5
 3/8" ADEL-STYLE CLAMP MS21919WDG AD6	10	 3/4" ADEL-STYLE CLAMP MS21919WDG AD12	10
 5/16" ADEL-STYLE CLAMP MS21919WDG AD5	10	 11/16" ADEL-STYLE CLAMP MS21919WDG AD11	10
 1/4" ADEL-STYLE CLAMP MS21919WDG AD4	10	 5/8" ADEL-STYLE CLAMP MS21919WDG AD10	10
 3/16" ADEL-STYLE CLAMP MS21919WDG AD3	10	 9/16" ADEL-STYLE CLAMP MS21919WDG AD9	10
 1/8" ADEL-STYLE CLAMP MS21919WDG AD2	10	 1/2" ADEL-STYLE CLAMP MS21919WDG AD8	10
 1-3/16" ADEL-STYLE CLAMP MS21919WDG19 AD19	5	 1-1/8" ADEL-STYLE CLAMP MS21919WDG AD18	5
 1-1/2" ADEL-STYLE CLAMP MS21919WDG AD24	5	 1-1/16" ADEL-STYLE CLAMP MS21919WDG AD17	5
 1-3/8" ADEL-STYLE CLAMP MS21919WDG AD22	5	 1" ADEL-STYLE CLAMP MS21919WDG AD16	5
 7/6" ADEL-STYLE CLAMP MS21919WDG AD21	5	 15/16" ADEL-STYLE CLAMP MS21919WDG AD15	5
 1-1/4" ADEL-STYLE CLAMP MS21919WDG AD20	5	 7/8" ADEL-STYLE CLAMP MS21919WDG AD14	5
Front of Drawer			

Cable Clamps – Medium Duty

Full Assortment

Part No. MDCK

95 Pieces (Includes a PBADJ parts bin)

Back of Drawer			
 3/4" M.D. CABLE CLAMP- VNYL COAT MDC12	10	 1" M.D. CABLE CLAMP- VNYL COAT MDC16	10
 3/8" M.D. CABLE CLAMP- VNYL COAT MDC6	10	 1/2" M.D. CABLE CLAMP- VNYL COAT MDC8	10
 1/8" M.D. CABLE CLAMP- VNYL COAT MDC2	10	 1/4" M.D. CABLE CLAMP- VNYL COAT MDC4	10
 1-1/4" M.D. CABLE CLAMP- VNYL COAT MDC20	5	 5/8" M.D. CABLE CLAMP- VNYL COAT MDC10	10
 2" M.D. CABLE CLAMP- VNYL COAT MDC32	5	 5/16" M.D. CABLE CLAMP- VNYL COAT MDC5	10
 1-1/2" M.D. CABLE CLAMP- VNYL COAT MDC24	5		
Front of Drawer			



Cable Clamps – Heavy Duty

Full Assortment

Part No. HDC

65 Pieces (Includes a PBADJ parts bin)

Back of Drawer			
10	5	5	5
1" I.D. H.D. CABLE CLAMP- VNYL COAT HDC16	1-1/4" I.D. H.D. CABLE CLAMP- VNYL COAT HDC20	1-1/2" I.D. H.D. CABLE CLAMP- VNYL COAT HDC24	2" I.D. H.D. CABLE CLAMP- VNYL COAT HDC32
10	10	10	10
3/8" I.D. H.D. CABLE CLAMP- VNYL COAT HDC6	1/2" I.D. H.D. CABLE CLAMP- VNYL COAT HDC8	5/8" I.D. H.D. CABLE CLAMP- VNYL COAT HDC10	3/4" I.D. H.D. CABLE CLAMP- VNYL COAT HDC12
Front of Drawer			

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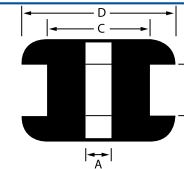
Rubber Grommets

Full Assortment

Part No. RGK

155 Pieces (Includes a PB24S parts bin)

Bore Dia. (A) x O.D. (D) x Groove Dia. (C) x Grove Width (B)



Back of Drawer					
	10				
3/4" x 1-3/8" x 1-1/16" x 1/16" RUBBER GROMMET RG34					
	10		5		10
3/8" x 7/8" x 5/8" x 1/16" RUBBER GROMMET RG38		3/8" x 7/8" x 5/8" x 3/16" RUBBER GROMMET RG38W		1/2" x 1-1/16" x 13/16" x 1/16" RUBBER GROMMET RG12	
					5
				1/2" x 1-1/16" x 13/16" x 3/16" RUBBER GROMMET RG12W	
					10
				5/8" x 1-1/8" x 7/8" x 1/16" RUBBER GROMMET RG58	
					5
				5/8" x 1-1/8" x 7/8" x 3/16" RUBBER GROMMET RG58W	
	25		25		25
1/8" x 11/32" x 1/4" x 1/16" RUBBER GROMMET RG18		3/16" x 7/16" x 5/16" x 1/16" RUBBER GROMMET RG316		1/4" x 5/8" x 7/16" x 1/16" RUBBER GROMMET RG14	
					10
				1/4" x 5/8" x 7/16" x 3/16" RUBBER GROMMET RG14W	
					10
				5/16" x 13/16" x 9/16" x 1/16" RUBBER GROMMET RG56	
					5
				5/16" x 13/16" x 9/16" x 3/16" RUBBER GROMMET RG56W	
Front of Drawer					



Rubber Grommets

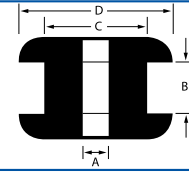
Full Assortment














Part No. RGK1

168 Pieces (Comes in a PB16 parts bin)

Bore Dia. (A) x O.D. (D) x Groove Dia. (C) x Groove Width (B)

Back of Drawer



 <p>12</p> <p>3/4" x 1-3/8" x 1-1/16" x 1/16" RUBBER GROMMET RG34</p>			
 <p>12</p> <p>1/2" x 1-1/16" x 13/16" x 1/16" RUBBER GROMMET RG12</p>	 <p>6</p> <p>1/2" x 1-1/16" x 3/16" x 3/16" RUBBER GROMMET RG12W</p>	 <p>12</p> <p>5/8" x 1-1/8" x 7/8" x 1/16" RUBBER GROMMET RG58</p>	 <p>6</p> <p>5/8" x 1-1/8" x 7/8" x 3/16" RUBBER GROMMET RG58W</p>
 <p>12</p> <p>5/16" x 13/16" x 9/16" x 1/16" RUBBER GROMMET RG56</p>	 <p>6</p> <p>5/16" x 13/16" x 9/16" x 3/16" RUBBER GROMMET RG56W</p>	 <p>12</p> <p>3/8" x 7/8" x 5/8" x 1/16" RUBBER GROMMET RG38</p>	 <p>6</p> <p>3/8" x 7/8" x 5/8" x 3/16" RUBBER GROMMET RG38W</p>
 <p>24</p> <p>1/8" x 11/32" x 1/4" x 1/16" RUBBER GROMMET RG18</p>	 <p>24</p> <p>3/16" x 7/16" x 5/16" x 1/16" RUBBER GROMMET RG316</p>	 <p>24</p> <p>1/4" x 5/8" x 7/16" x 1/16" RUBBER GROMMET RG14</p>	 <p>12</p> <p>1/4" x 5/8" x 7/16" x 3/16" RUBBER GROMMET RG14W</p>

Front of Drawer





HEAT SHRINK TUBING

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Thin Wall

- Provides protection against mechanical and corrosive damage to wires, cables, splices, terminations, etc.
- A high-quality, thin wall heat shrink, Polyolefin, tubing which will not shrink at ambient temperatures of 70°F or more
- Withstands normal operating temperatures of 135°C/275°F
- Meets military specification [MIL-DTL-23053/5](#)
- [MS-DTL-23053/5](#)
- U.L. listed by the original manufacturer rated for 600V



Thin Wall: 6 Inch Length									
I.D. Inches		Wire Range	Part No.						
Expanded (unshrunk)	Recovered (shrunk)		Black	Blue	Clear	Green	Red	White	Yellow
1/16	1/32	33 – 24 GA	TSP1BK	TSP1BE	TSP1CR	TSP1GN	TSP1RD	TSP1WE	TSP1YW
3/32	3/64	26 – 24 GA	TSP1.5BK	TSP1.5BE	TSP1.5CR	TSP1.5GN	TSP1.5RD	TSP1.5WE	TSP1.5YW
1/8	1/16	22 – 18 GA	TSP2BK	TSP2BE	TSP2CR	TSP2GN	TSP2RD	TSP2WE	TSP2YW
3/16	3/32	20 – 14 GA	TSP3BK	TSP3BE	TSP3CR	TSP3GN	TSP3RD	TSP3WE	TSP3YW
1/4	1/8	18 – 10 GA	TSP4BK	TSP4BE	TSP4CR	TSP4GN	TSP4RD	TSP4WE	TSP4YW
5/16	5/32	16 – 8 GA	TSP5BK	–	–	–	–	–	–
3/8	3/16	12 – 6 GA	TSP6BK	TSP6BE	TSP6CR	TSP6GN	TSP6RD	TSP6WE	TSP6YW
1/2	1/4	8 – 4 GA	TSP8BK	TSP8BE	TSP8CR	TSP8GN	TSP8RD	TSP8WE	TSP8YW
5/8	5/16	6 – 1/0 GA	TSP10BK	–	–	–	–	–	–
3/4	3/8	4 – 2/0 GA	TSP12BK	TSP12BE	TSP12CR	TSP12GN	TSP12RD	TSP12WE	TSP12YW
1	1/2	2 – 4/0 GA	TSP16BK	TSP16BE	TSP16CR	TSP16GN	TSP16RD	TSP16WE	TSP16YW
1-1/2	3/4	2/0 GA – 350 MCM	TSP24BK	–	–	–	–	–	–
2	1	400 – 1000 MCM	TSP32BK	–	–	–	–	–	–

Thin Wall: 4 Foot Length		
Expanded I.D. (unshrunk) (in)	Part No.	
	Black	Clear
1/16	TSP1BK4	TSP1CR4
3/32	TSP1.5BK4	TSP1.5CR4
1/8	TSP2BK4	TSP2CR4
3/16	TSP3BK4	TSP3CR4
1/4	TSP4BK4	TSP4CR4
5/16	TSP5BK4	–
3/8	TSP6BK4	TSP6CR4
1/2	TSP8BK4	TSP8CR4
5/8	TSP10BK4	–
3/4	TSP12BK4	TSP12CR4
1	TSP16BK4	TSP16CR4
1-1/2	TSP24BK4	TSP24CR4
2	TSP32BK4	TSP32CR4

Thin Wall: Rolls				
Expanded I.D. (unshrunk) (in)	Roll Length	Part No.		
		Black	White	Clear
1/16	100'	TSP1BKR	TSP1WER	TSP1CRR
3/32	100'	TSP1.5BKR	TSP1.5WER	TSP1.5CRR
1/8	100'	TSP2BKR	TSP2WER	TSP2CRR
3/16	100'	TSP3BKR	TSP3WER	TSP3CR4R
1/4	100'	TSP4BKR	TSP4WER	TSP4CRR
5/16	100'	TSP5BKR	–	–
3/8	50'	TSP6BKR	TSP6WER	TSP6CRR
1/2	50'	TSP8BKR	TSP8WER	TSP8CRR
5/8	100'	TSP10BKR	–	–
3/4	25'	TSP12BKR	TSP12WER	TSP12CRR
1	25'	TSP16BKR	TSP16WER	TSP16CRR
1-1/2	25'	TSP24BKR	TSP24WER	–
2	25'	TSP32BKR	TSP32WER	–



Heat Shrink Tubing



1.5" pieces are great for battery terminals.

Heavy-Duty Dual Wall Heat Shrink

- Assures superior abrasion protection, strain relief and excellent electrical insulation properties
- Constructed of polyolefin with inner mel -mastic.
- 3:1 shrink ratio
- Shrinkage temperature of 250°F to 275°F (110°C)
- 2,000V continuous dielectric strength
- Meets military specific tion MIL-DTL-23053/15
- AMS-DTL-23053/15

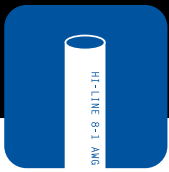
Heavy-Duty: 1.5 and 6 Inch

I.D. Inches		Wire Range	Part No.			
Expanded (unshrunk)	Recovered (shrunk)		1.5" Length		6" Length	
			Black	Red	Black	Red
5/16	3/32	18 – 14 GA	–	–	TSHD5BKS	TSHD5RDS
13/32	5/32	14 – 6 GA	–	–	TSHD6.5BKS	TSHD6.5RDS
1/2	11/64	14 – 4 GA	–	–	TSHD8BKS	TSHD8RDS
3/4	1/4	8 – 1 GA	TSHD12BK1.5	TSHD12RD1.5	TSHD12BKS	TSHD12RDS
1-1/8	3/8	2 – 4/0 GA	TSHD18BK1.5	TSHD18RD1.5	TSHD18BKS	TSHD18RDS



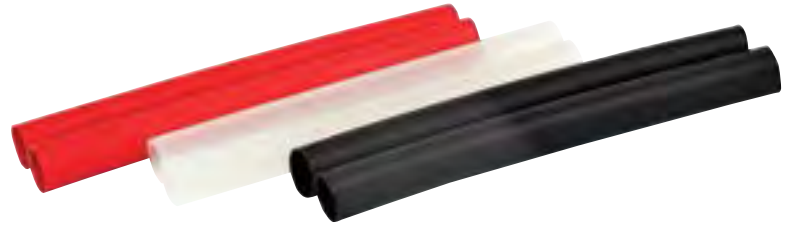
Heavy-Duty: 12 Inch and 4 Foot

I.D. Inches		Wire Range	Part No.			
Expanded (unshrunk)	Recovered (shrunk)		12" Length		4' Length	
			Black	Red	Black	Red
5/16	3/32	18 – 14 GA	TSHD5BK	TSHD5RD	TSHD5BK4	TSHD5RD4
13/32	5/32	14 – 6 GA	TSHD6.5BK	TSHD6.5RD	TSHD6.5BK4	TSHD6.5RD4
1/2	11/64	14 – 4 GA	TSHD8BK	TSHD8RD	TSHD8BK4	TSHD8RD4
3/4	1/4	8 – 1 GA	TSHD12BK	TSHD12RD	TSHD12BK4	TSHD12RD4
1-1/8	3/8	2 – 4/0 GA	TSHD18BK	TSHD18RD	TSHD18BK4	TSHD18RD4
1-1/2	1/2	4/0 GA – 400 MCM	TSHD24BK	TSHD24RD	TSHD24BK4	TSHD24RD4
2	3/4	500 – 1000 MCM	TSHD32BK	TSHD32RD	TSHD32BK4	TSHD32RD4
3-1/2	1-11/64	800 – 1300 MCM	TSHD64BK	–	TSHD64BK4	–
4-7/10	1-5/8	1500 – 2500 MCM	TSHD96BK	–	TSHD96BK4	–



Dual Wall Heat Shrink

- For applications where additional protection is required against moisture and corrosion
- Polyolefin with inner melt line
- 3:1 shrink ratio
- Shrinkage temperature -55°C to 110°C
- Military specific tion MIL-DTL-23053/4
- AMS-DTL-23053/4



Dual Wall: 6 Inch					
I.D. Inches		Wire Range	Part No.		
Expanded (unshrunk)	Recovered (shrunk)		Black	Red	Clear
1/8	3/64	30 – 18 GA	TSPD2BK	TSPD2RD	TSPD2CR
3/16	1/16	20 – 14 GA	TSPD3BK	TSPD3RD	TSPD3CR
1/4	5/64	18 – 10 GA	TSPD4BK	TSPD4RD	TSPD4CR
3/8	1/8	12 – 6 GA	TSPD6BK	TSPD6RD	TSPD6CR
1/2	5/32	8 – 4 GA	TSPD8BK	TSPD8RD	TSPD8CR
3/4	1/4	4 – 2/0 GA	TSPD12BK	TSPD12RD	TSPD12CR
1	5/16	2 – 4/0 GA	TSPD16BK	TSPD16RD	TSPD16CR
1-1/4	13/32	1 GA – 250 MCM	TSPD20BK	TSPD20RD	TSPD20CR
1-1/2	1/2	2/0 GA – 350 MCM	TSPD24BK	TSPD24RD	TSPD24CR

1/8" – 1" Also available in 4ft lengths
For 4ft lengths add 4 as a suffix Ex. TSPD2BK4

Crystal Clear Heat Shrink Tubing

- Dual Wall – Adhesive lined
- 2.5 to 1 shrink ratio
- -67°F to 257°F continuous temp.
- 750 V/Mil (30kV/MM) dielectric strength



Crystal Clear tubing provides optimal clarity for visual inspection.

Crystal Clear Heat Shrink Tubing			
For Wire Ga.	I.D. Inches		Part No.
	Expanded (unshrunk)	Recovered (shrunk)	
22-18	0.018	0.045	CCHS2218
16-14	0.250	0.080	CCHS1614
12-10	0.365	0.100	CCHS1210



Heat Shrink Tubing Assortments

Full Assortment Product Quantity

14-6 GA. H.D. HEAT SHRINK BLACK 12"
13/32 I.D., 5/32 SHRINK SIZE
MIL-DTL-MS23053/15
TSHD6.5BK

5

Thin Wall Heat Shrink

Full Assortment

Part No. TSP35610BK

75 Pieces (Comes in a PB6L parts bin)

Back of Drawer

MIL-DTL-M23053/5 1/2" SHRINK SIZE TSP16BK		5
MIL-DTL-M23053/5 3/4" I.D. 3/8" SHRINK SIZE TSP12BK		5
MIL-DTL-M23053/5 1/2" I.D. 1/4" SHRINK SIZE TSP8BK		5
MIL-DTL-M23053/5 1/4" I.D. 1/8" SHRINK SIZE TSP4BK		10
MIL-DTL-M23053/5 3/8" I.D. 3/16" SHRINK SIZE TSP6BK		10
MIL-DTL-M23053/5 1/8" I.D. 1/16" SHRINK SIZE TSP2BK		10
MIL-DTL-M23053/5 3/16" I.D. 3/32" SHRINK SIZE TSP3BK		10
MIL-DTL-M23053/5 1/16" I.D. 1/32" SHRINK SIZE TSP1BK		10
MIL-DTL-M23053/5 3/64" I.D. 3/64" SHRINK SIZE TSP1.5BK		10

Front of Drawer











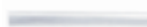









Thin Wall Heat Shrink – Colors

Full Assortment

Part No. TSPKC

54 Pieces (Comes in a PB6L parts bin)








Back of Drawer		
3/4" ID, 3/8" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP12RD 	MIL-DTL-M23053/5	3/4" ID, 3/8" SHRINK SIZE-WHITE THIN WALL HEAT SHINK TUBING TSP12WE 
3/4" ID, 3/8" SHRINK SIZE-BLUE THIN WALL HEAT SHINK TUBING TSP12BE 		9 (3 each)
1/2" ID, 1/4" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP8RD 	MIL-DTL-M23053/5	1/2" ID, 1/4" SHRINK SIZE- WHITE THIN WALL HEAT SHINK TUBING TSP8WE 
1/2" ID, 1/4" SHRINK SIZE- BLUE THIN WALL HEAT SHINK TUBING TSP8BE 		9 (3 each)
3/8" ID, 3/16" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP6RD 	MIL-DTL-M23053/5	3/8" ID, 3/16" SHRINK SIZE- WHITE THIN WALL HEAT SHINK TUBING TSP6WE 
3/8" ID, 3/16" SHRINK SIZE- BLUE THIN WALL HEAT SHINK TUBING TSP6BE 		9 (3 each)
1/4" ID, 1/8" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP4RD 	MIL-DTL-M23053/5	1/4" ID, 1/8" SHRINK SIZE- WHITE THIN WALL HEAT SHINK TUBING TSP4WE 
1/4" ID, 1/8" SHRINK SIZE- BLUE THIN WALL HEAT SHINK TUBING TSP4BE 		9 (3 each)
3/16" ID, 3/32" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP3RD 	MIL-DTL-M23053/5	3/16" ID, 3/32" SHRINK SIZE- WHITE THIN WALL HEAT SHINK TUBING TSP3WE 
3/16" ID, 3/32" SHRINK SIZE-BLUE THIN WALL HEAT SHINK TUBING TSP3BE 		9 (3 each)
1/8" ID, 1/16" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP2RD 	MIL-DTL-M23053/5	1/8" ID, 1/16" SHRINK SIZE- RED THIN WALL HEAT SHINK TUBING TSP2WE 
1/8" ID, 1/16" SHRINK SIZE- BLUE THIN WALL HEAT SHINK TUBING TSP2BE 		9 (3 each)
Front of Drawer		

Thin Wall Heat Shrink

Full Assortment

Part No. TSP351BK

55 Pieces (Comes in a PB8S small parts bin)

Back of Drawer	
MIL-DTL-M23053/5 3/8" I.D. 12-16 GA 3/16" SHRINK SIZE TSP6BK 	10
MIL-DTL-M23053/5 1/4" I.D. 18-10 GA 1/8" SHRINK SIZE TSP4BK 	10
MIL-DTL-M23053/5 3/16" I.D. 20-14 GA 3/32" SHRINK SIZE TSP3BK 	10
MIL-DTL-M23053/5 1/8" I.D. 22-18 GA 1/16" SHRINK SIZE TSP2BK 	10
MIL-DTL-M23053/5 1" I.D. 2-4/0 GA 1/2" SHRINK SIZE TSP16BK 	5
MIL-DTL-M23053/5 3/4" I.D. 4-2/0 GA 3/8" SHRINK SIZE TSP12BK 	5
MIL-DTL-M23053/5 1/2" I.D. 8-4 GA 1/4" SHRINK SIZE TSP8BK 	5
Front of Drawer	



Heat Shrink Tubing Assortments

Thin Wall Heat Shrink

Full Assortment

Part No. TSP151

100 Pieces (Comes in a PB6L parts bin)

Back of Drawer	
MIL-DTL-M23053/5 3/4" I.D. 4-2/0 GA 3/8" SHRINK SIZE TSP12BK	5
MIL-DTL-M23053/5 1/2" I.D. 8-4 GA 1/4" SHRINK SIZE TSP8BK	5
MIL-DTL-M23053/5 3/8" I.D. 12-6 GA 3/16" SHRINK SIZE TSP6BK	10
MIL-DTL-M23053/5 1/4" I.D. 18-10 GA 1/8" SHRINK SIZE TSP4BK	10
MIL-DTL-M23053/5 3/16" I.D. 20-14 GA 3/32" SHRINK SIZE TSP3BK	10
MIL-DTL-M23053/5 1/8" I.D. 22-18 GA 1/16" SHRINK SIZE TSP2BK	10
Front of Drawer	
MIL-DTL-M23053/5 3/4" I.D. 4-2/0 GA 3/8" SHRINK SIZE TSP12CR	5
MIL-DTL-M23053/5 1/2" I.D. 8-4 GA 1/4" SHRINK SIZE TSP8CR	5
MIL-DTL-M23053/5 3/8" I.D. 12-6 GA 3/16" SHRINK SIZE TSP6CR	10
MIL-DTL-M23053/5 1/4" I.D. 18-10 GA 1/8" SHRINK SIZE TSP4CR	10
MIL-DTL-M23053/5 3/16" I.D. 20-14 GA 1/8" SHRINK SIZE TSP3CR	10
MIL-DTL-M23053/5 1/8" I.D. 22-18 GA 1/16" SHRINK SIZE TSP2CR	10

Dual Wall Heat Shrink

Full Assortment

Part No. TSHDK

26 Pieces (Comes in a PB6L parts bin)

Back of Drawer	
1-1/8" 2 - 2/0 AWG BLACK 12" H. D. DUAL WALL HEAT SHRINK MIL-DTL-MS23053/15 TSHD18BK	1
1-1/8" 2 - 2/0 AWG RED 12" H. D. DUAL WALL HEAT SHRINK MIL-DTL-MS23053/15 TSHD18RD	1
8-1 GA. H.D. HEAT SHRINK RED 12" 3/4 I.D., 1/4 SHRINK SIZE MIL-DTL-MS23053/15 TSHD12RD	2
8-1 GA. H.D. HEAT SHRINK BLACK 12" 3/4 I.D., 1/4 SHRINK SIZE MIL-DTL-MS23053/15 TSHD12BK	2
14-6 GA. H.D. HEAT SHRINK RED 12" 13/32 I.D., 5/32 SHRINK SIZE MIL-DTL-MS23053/15 TSHD6.5RD	5
14-6 GA. H.D. HEAT SHRINK BLACK 12" 13/32 I.D., 5/32 SHRINK SIZE MIL-DTL-MS23053/15 TSHD6.5BK	5
5/16" 18 - 14 AWG RED 12" H. D. DUAL WALL HEAT SHRINK MIL-DTL-MS23053/15 TSHD5RD	5
5/16" 18 - 14 AWG BLACK 12" H. D. DUAL WALL HEAT SHRINK MIL-DTL-MS23053/15 TSHD5BK	5
Front of Drawer	

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Thin Wall Heat Shrink

Full Assortment Part No. TSP611BK 60 Pieces (Comes in a PB8S small parts bin)	No Bin Assortment Part No. TSP611BKNPB 60 Pieces (Parts bin not included)
Back of Drawer	
MIL-DTL-M23053/5 3/16" I.D. 20-14 GA 3/32" SHRINK SIZE TSP3BK	10
MIL-DTL-M23053/5 1/8" I.D. 22-18 GA 1/16" SHRINK SIZE TSP2BK	10
MIL-DTL-M23053/5 3/32" I.D. 26-20 GA 3/64" SHRINK SIZE TSP1.5BK	10
MIL-DTL-M23053/5 1/16" I.D. 32-24 GA 1/32" SHRINK SIZE TSP1BK	10
Front of Drawer	
MIL-DTL-M23053/5 3/8" I.D. 12-6 GA 3/16" SHRINK SIZE TSP6BK	10
MIL-DTL-M23053/5 1/4" I.D. 18-10 GA 1/8" SHRINK SIZE TSP4BK	10

Heat Shrink – Dual Wall

Full Assortment Part No. TSPDK 24 Pieces (Comes in a PB6L parts bin)	
Back of Drawer	
MIL-DTL-23053/19 1-1/8" I.D. 8-1 GA H.D. HEAT SHRINK - BLACK 12"L TSHD18BK	4
MIL-DTL-23053/15 3/4" I.D. 8-1 GA H.D. HEAT SHRINK - BLACK 12"L TSHD12BK	4
MIL-DTL-MS23053/4 1/2" I.D. 8-4 AWG DUAL WALL TSPD8BK	4
MIL-DTL-MS23053/4 3/8" 12-6 AWG DUAL WALL TSPD6BK	4
MIL-DTL-MS23053/4 1/4" 18-10 AWG DUAL WALL TSPD4BK	4
MIL-DTL-MS23053/4 3/8" 20-14 AWG DUAL WALL TSPD3BK	4
Front of Drawer	



Heat Shrink Tubing Assortments













Dual Wall Heat Shrink

Full Assortment

Part No. **AST0204**

60 Pieces (Comes in a PB6L parts bin)

Back of Drawer

1/4" ID 18-10 GA - CLEAR 6"L DUAL WALL HS MIL-DTL-23053/4 TSPD4CR		5	3/8" ID 12-6 GA - CLEAR 6"L DUAL WALL HS MIL-DTL-23053/4 TSPD6CR		5
1/8" ID 30-18 GA - CLEAR 6"L DUAL WALL HS MIL-DTL-23053/4 TSPD2CR		5	3/16" ID 20-15 GA - CLEAR 6"L DUAL WALL HS MIL-DTL-23053/4 TSPD3CR		5
1/4" 18-10 AWG DUAL WALL TSPD4RD		5	3/8" 12-6 AWG DUAL WALL TSPD6RD		5
1/8" 30-18 AWG DUAL WALL TSPD2RD		5	1/8" 30-18 AWG DUAL WALL TSPD2RD		5
1/4" 18-10 AWG DUAL WALL TSPD4BK		5	3/8" 12-6 AWG DUAL WALL TSPD6BK		5
1/8" 30-18 AWG DUAL WALL TSPD2BK		5	3/8" 20-14 AWG DUAL WALL TSPD3BK		5

Front of Drawer



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400



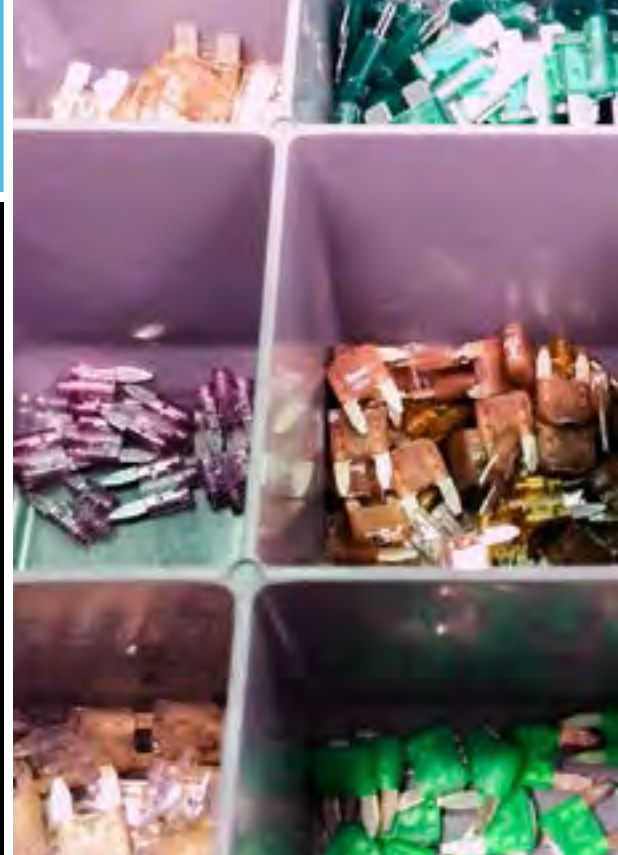




FUSES & ACCESSORIES

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Industry Part Numbers A–F




Industry No.*	Part No.	Description
ABC	FBC	Ceramic tube, fast-acting interrupting, 6.3mm × 32mm, 1/4" × 1-1/4", 250VAC
ACK	FK	Stud mounted cartridge fuse
AGA	FA	Glass tube, fast-acting, 6.4mm × 15.9mm, 1/4" × 5/8", 32V–125VAC
AGC	FC	Glass tube, fast-acting interrupting, 6.3mm × 32mm, 1/4" × 1-1/4", 32V–250V
AGU	FGU	Glass tube, fast-acting, 13/32" × 1-1/2", 32VAC, 250VAC
AGW	FGW	Glass tube, fast-acting, 6.4mm × 22.2mm, 1/4" × 7/8", 32VAC
AGX	FX	Glass tube, fast-acting, 6.4mm × 25.4mm, 1/4" × 1", 32VAC–250VAC
AMG	FMG	Stud mounted, for high current applications in vehicles
AMI	FIM	Stud mounted, for high power distribution in vehicles
ANL	FNL	Limiter, non-time delay, 80VDC
ANN	FAN	Limiter, very fast-acting, 125VAC
ATC	FT	Blade-type (STD), for truck and automotive use, 32VDC maximum
ATL	F1Ø1A	3-Leg Micro Fuse
ATM	FMI	Blade-type (MINI), for truck and automotive use, 32VDC maximum
ATM_LP	FMI_LP	Low Profile version of above
ATR	F1ØØA	2-Leg Micro Fuse
BAF	FAF	Supplementary, fast-acting, 10.3mm × 38.1mm, 13/32" × 1-1/2", 125VAC
BBS	FBS	Supplementary, fast-acting, 10.3mm × 35mm, 13/32" × 1-3/8", 48VAC
FFM	F1Ø2A	Female Micro Fuse
FMX	FFX	Female maxi fuses for truck and automotive use, 32VDC
FMX_LP	FFX_LP	Low Profile version of above
FNM	FFM	Supplementary, time delay, 10.3mm × 38.1mm, 13/32" × 1-1/2", 250VAC
FNQ	FFQ	Supplementary, time delay, 10.3mm × 38.1mm, 13/32" × 1-1/2", 500VAC
FNQ-R	FQR	Class CC, rejection-type, time delay, branch circuit, 600VAC

*Industry No. refers in most cases refers to Bussmann. If you need to cross-reference to another manufacturer, see your local Hi-Line Territory Manager or use the FUSEFinder Quick Cross Reference Guide on Bussmann's website.



Industry Part Numbers F–S		
Industry No.*	Part No.	Description
FRN-R	FNR	Class RK5, dual-element, time delay, current limiting, 250VAC–125VDC
FRN-R_ID	FNR_ID	Same as standard FRN-R fuses with convenience of blown fuse identification
FRS-R	FSR	Class RK5, dual-element, time delay, current limiting, 600VAC or less
GBC	FB	Ceramic tube, non-time delay, for truck and automotive use, 32VDC
GDA	FGA	Ceramic tube, fast-acting, 5mm × 20mm, 250VAC or less
GDB	FGB	Glass tube, fast-acting, low-breaking capacity, 5mm × 20mm, 250VAC
GDC	FGC	Glass tube, time delay, low-breaking capacity, 5mm × 20mm, 250VAC
GMA	FMA	Glass tube, fast-acting, 5mm × 20mm 125VAC, 250VAC
GMC	FMC	Glass tube, medium time delay, 5mm × 20mm, 125VAC–250VAC
GMD	FMD	Glass tube, time delay, 5mm × 20mm, 250VAC
JJS	FJS	Class T, very fast-acting, current interrupting, 600VAC or less
JKS	FKS	Class J, fast-acting, current limiting, 600VAC or less
KRP-C_SP	FRPC_SP	Class L, low-peak, dual element, time delay
KTK	FTK	Supplementary, fast-acting, interrupting, 10.3mm × 38.1mm, 600VAC
KTKR	FTKR	Class CC rejection-type fast-acting, branch circuit, 600VAC
KTN-R	FTNR	Class RK1, fast-acting, current limiting, 250VAC or less
LP-CC	FPCC	Class CC, low-peak, time delay, current limiting, 600VAC
LPJ_SP	FPJ	Class J, low-peak, dual element, time delay
LPN-RK_SP	FPNRK_SP	Class R, low-peak, dual element, time delay, 250VAC
LPS-RK_SP	FPSRK_SP	Class R, low-peak, dual element, time delay, 600VAC
MAX	FMX	Blade type (MAXI), for truck and automotive use, 32VDC maximum
MDA	FDA	Ceramic tube, time delay, 6.4mm × 31.8mm, 1/4" × 1-1/4", 250VAC
MDL	FL	Glass tube, time delay, interrupting, 6.3mm × 32mm, 1/4" × 1-1/4", 32V–250VAC
NOS	FNS	One time general purpose, non-current limiting, 600VAC
SC	FSC	Class G, time delay or fast-acting, 13/32" × 1-1/2", 480VAC or less
SFE	FE	Glass tube, non-time delay, for truck and automotive use, 32V
S505	FS505	Ceramic tube, 250VAC, Time Delay


*Industry No. refers in most cases refers to Bussmann. If you need to cross-reference to another manufacturer, see your local Hi-Line Territory Manager or use the Fuse Finder Quick Cross Reference Guide on Bussman's website.

Class CC & G			
	Industry No.	Part No.	Available Amp Ratings
	FNQ-R	FQR	.20, .25, .30, .40, .50, .60, .80, 1, 2, 3, 4, 5, 6, 7.5, 8, 9, 10, 12, 15,
	KTK-R	FTKR	.25, .50, .75, 1, 1.50, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30
	SC	FSC	.50, 1, 1.5, 2, 3, 4, 5, 6, 8, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60



Fuses & Accessories

Fuses Not Actual Size

Class J & T			
	Industry No.	Part No.	Available Amp Ratings
	LPJ	FPJ	1, 1.25, 1.6, 1.8, 2, 2.25, 2.5, 2.8, 3, 3.2, 3.5, 4, 4.5, 5, 5.6, 6, 7, 8, 9, 10, 12, 15, 17.5, 20, 25, 30
	LPJ	FPJ	35, 40, 45, 50, 60
	LPJ	FPJ	70, 80, 90, 100
	JKS	FKS	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30
	JKS	FKS	35, 40, 45, 50, 60
	JKS	FKS	70, 80, 90, 100
	JJS	FJS	1, 2, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30
	JJS	FJS	35, 40, 45, 50, 60
	JJS	FJS	70, 80, 90, 100



Fuses Not Actual Size

Class RK1, RK5 & One-Time Fuses			
	Industry No.	Part No.	Available Amp Ratings
	KTN-R	FTNR	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30
	KTN-R	FTNR	35, 40, 45, 50, 60
	KTN-R	FTNR	70, 75, 80, 90, 100
	FRN-R	FNR	.10, .20, .25, .30, .40, .50, .60, .80, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.6, 6, 6.25, 7, 7.25, 8, 9, 10, 12, 15, 17.5, 20, 25, 30
	FRN-R	FNR	35, 40, 45, 50, 60
	FRN-R	FNR	70, 75, 80, 90, 100
	FRN-R_ID	FNR_ID	15, 20, 25, 30
	FRN-R_ID	FNR_ID	40, 50, 60
	FRS-R	FSR	.50, 1, 1.25, 1.5, 2, 2.25, 2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 7.5, 8, 9, 10, 12, 15, 17.5, 20, 25, 30
	FRS-R	FSR	35, 40, 45, 50, 60








Fuses & Accessories

Fuses Not Actual Size

Class RK1, RK5 & One-Time Fuses			
	Industry No.	Part No.	Available Amp Ratings
	FRS-R	FSR	65, 70, 75, 80, 90, 100
	FRS-R	FSR	110
	NON	FNN	.5, .75, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 10, 12, 15, 20, 25, 30
	NON	FNN	35, 40, 45, 50, 60
	NON	FNN	70, 80, 90, 100
	NOS	FNS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30
	NOS	FNS	35, 40, 45, 50, 60
	NOS	FNS	70, 75, 80, 90, 100



Fuses Not Actual Size

Supplementary			
	Industry No.	Part No.	Available Amp Ratings
	BAF	FAF	.25, .50, 1, 1.5, 10, 12, 15, 2, 2.5, 20, 25, 3, 30, 4, 5, 6, 6.25, 7, 8, 9
	BBS	FBS	.10, .20, .25, .40, .50, .60, .75, .80, 1, 1.5, 1.6, 1.8, 2, 3, 4, 5, 6, 7, 8, 10, 15, 20, 25, 30
	KTK-KTM	FTK	.25, .50, .75, 1, 1.25, 1.50, 2, 2.5, 3, 3.5, 4, 5, 6, 7, 7.5, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40, 45, 50
	FNM	FFM	.25, .5, 1, 1.125, 1.25, 1.5, 1.8, 2, 2.25, 2.5, 3, 3.5, 4, 4.5, 5, 6, 6.25, 7, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40
	FNQ	FFQ	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 15, 20, 25, 30

FPC Fuse Puller Tool

Application for glass tube & ATC fuses. NOTE: Fuse pullers are only to be used when the associated circuit has been de-energized. Made of non-conductive plastic.



FPC

FFP2 Fuse Puller Tool

Application for 13/32" to 13/18" dia. fuses. NOTE: Fuse pullers are only to be used when the associated circuit has been de-energized. Made of non-conductive plastic.



FFP2

FFP3 Fuse Puller Tool

Application for 1" to 1-3/4" dia. fuses. NOTE: Fuse pullers are only to be used when the associated circuit has been de-energized. Made of non-conductive plastic.



FFP3

FFP4 Fuse Puller Tool

Application for 1-3/4" to 2-1/2" dia. fuses. NOTE: Fuse pullers are only to be used when the associated circuit has been de-energized. Made of non-conductive plastic.












FFP4



Fuses & Accessories







Fuses Not Actual Size

Small Dimension			
	Industry No.	Part No.	Available Amp Ratings
	ABC	FBC	.25, .50, .75, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 20, 25, 30
	AGA	FA	.0625, .10, .25, .50, .75, 1, 1.5, 2, 2.5, 3, 5, 6, 7, 7.5, 10, 15, 20, 25, 30
	AGC	FC	.03125, .10, .125, .15, .25, .50, .75, 1, 1.25, 1.5, 1.6, 1.75, 1.8, 2, 2.25, 2.5, 3, 3.2, 3.5, 4, 5, 6, 6.25, 7, 7.5, 8, 9, 10, 12, 14, 15, 20, 25, 30, 35, 40, 50
	AGU	FGU	1, 2, 3, 4, 5, 8, 10, 15, 20, 25, 30, 35, 40, 50, 60
	AGW	FGW	1, 1.5, 2, 2.5, 3, 4, 5, 6, 7.5, 10, 15, 20, 25, 30
	AGX	FX	1, 1.25, 1.5, 2, 2.5, 3, 4, 5, 8, 10, 15, 20, 25, 30, 35, 50
	GDA	FGA	.050MA, .063MA, .080MA, .100MA, .125MA, .160MA, .200MA, .250MA, .400MA, .500MA, .630MA, .800MA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 4A, 5A, 6.3A
	GDB	FGB	.032MA, .050MA, .063MA, .080MA, .100MA, .125MA, .160MA, .200MA, .250MA, .315MA, .400MA, .500MA, .630MA, .800MA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 4A, 5A, 6.3A, 8A, 10A
	GDC	FGC	.032MA, .050MA, .063MA, .080MA, .100MA, .125MA, .160MA, .200MA, .250MA, .315MA, .400MA, .500MA, .630MA, .800MA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 4A, 5A, 6.3A

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Fuses Not Actual Size







Small Dimension			
	Industry No.	Part No.	Available Amp Ratings
	GMA	FMA	.063MA, .100MA, .125MA, .200MA, .250MA, .300MA, .500MA, .600MA, .750MA, .800MA, 1A, 1.5A, 1.6A, 2A, 2.5A, 3A, 3.15A, 3.5A, 4A, 5A, 6A, 7A, 8A, 10A, 15A
	GMC	FMC	.063MA, .100MA, .125MA, .150MA, .200MA, .250MA, .300MA, .315MA, .400MA, .500MA, .600MA, .630MA, .750MA, .800MA, 1A, 1.25A, 1.5A, 1.6A, 2A, 2.5A, 3A, 3.15A, 3.5A, 4A, 5A, 6A, 6.3A, 7A, 8A, 10A
	GMD	FMD	.125MA, .150MA, .200MA, .250MA, .300MA, .315MA, .400MA, .500MA, .600MA, .630MA, .750MA, .800MA, 1A, 1.25A, 1.5A, 1.6A, 2A, 2.5A, 3A, 4A
	MDA	FDA	.25, .50, 1, 3, 4, 5, 6, 6.25, 7, 8, 10, 12, 15, 20, 25, 30
	MDL	FL	.10, .125, .25, .30, .50, .60, .70, .75, .80, 1, 1.20, 1.25, 1.5, 1.60, 1.80, 2, 2.25, 2.50, 3, 3.20, 3.50, 4, 5, 6.25, 7, 7.50, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40
	S505	FS505	500MA, 800MA, 1, 1.25, 1.6, 2, 2.5, 3.15, 4, 5, 6.3, 8, 10






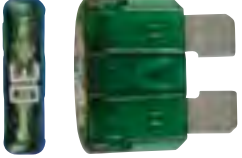


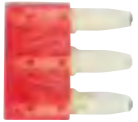

Fuses & Accessories

Fuses Not Actual Size

Truck & Auto			
	Industry No.	Part No.	Available Amp Ratings
	SFE	FE	4, 7.5, 9, 14, 20, 30
	GBC	FB	5, 8, 16, 25
	FMX	FFX	20, 25, 30, 40, 50, 60
 <p>Smart Fuse <i>"It glows when it blows"</i></p>	FMX	SFX	20, 30, 40, 50, 60
	FMX_LP	FFX_LP	20, 25, 30, 40, 50, 60
	ATM	FMI	2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30
	ATM_LP	FMI_LP	2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30
	ATC	FT	1, 2, 3, 4, 5, 7.5, 10, 15, 20, 25, 30, 40
	MAX	FMX	20, 30, 40, 50, 60



Fuses Not Actual Size

Truck & Auto			
	Industry No.	Part No.	Available Amp Ratings
 <p>Smart Fuse <i>"It glows when it blows"</i></p>	ATM	SFM	3, 5, 7.5, 10, 15, 20, 25, 30
 <p>Smart Fuse <i>"It glows when it blows"</i></p>	ATC	SFT	3, 5, 7.5, 10, 15, 20, 25, 30, 35, 40
 <p>Smart Fuse <i>"It glows when it blows"</i></p>	MAX	SMX	20, 30, 40, 50, 60, 70, 80, 100
 <p>Micro</p>	ATR	F100A	5, 7.5, 10, 15, 20, 25, 30
 <p>Micro</p>	ATL	F101A	5, 7.5, 10, 15
 <p>Micro</p>	FMM	F102A	15, 20, 25, 30, 40

Fuse Tester & Puller

Part No: FFP5




- Fuse tester & puller for automotive fuses
- Works with all blade and glass fuses up to 1-1/4" in length
- Probe slides to appropriate fuse length
- Light glows when fuse is good
- Fuses can be tested while they are still in the fuse block





Fuses & Accessories

Fuses Not Actual Size

Stud Type Fuses			
	Industry No.	Part No.	Available Amp Ratings
	ACK	FK	15, 20, 25, 30, 35, 40, 50, 60, 70, 75, 80, 100, 120, 140, 150, 160, 175, 200, 225, 250, 300, 400
	AMG	FMG	80, 100, 125, 150, 175, 200, 225, 250, 300, 400, 450, 500
	AMI	FIM	30, 40, 50, 60, 70, 80, 100, 125, 150, 200
	ANL	FNL	35, 40, 50, 60, 80, 100, 125, 130, 150, 175, 200, 225, 250, 275, 300, 325, 350, 400, 500
	ANN	FAN	10, 35, 40, 50, 60, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 400, 500, 600, 700, 800

AMG Fuse Holder

Part No: FHFMG

- For use with AMG fuses – up to 500 AMP
- Easy to wire – use 8 to 1/0 GA. Cable
- Features impact resistant base and elastomer cover



ANN & ANL Limiter Block

Part No: FHFAN

- Open stud block
- Works with 800A and lower



AMI Fuse Holder

Part No: FHFIM

- For use with AMI fuses – up to 80 AMP
- Easy to wire – use 8 to 1/0 GA. Cable
- Splash resistant cover
- Multiple blocks can be dovetailed together to form an assembly





Power Distribution Relay Module and Fuse Module

- Sealed compact distribution modules for high current applications
- Resistant to high vibrations and extreme moisture
- Rugged input studs, size M8
- Weather-tight removable fuse cover
- For FMX fuses (fuses and connection terminals not included)

Power Relay Module

Part No: FBPRM

- 35A Relay
- Two FMX fuse positions— one fuse protects the relay, the other fuse is a single circuit in-line fuse



Power Fuse Module

Part No: FBPFM

- Two FMX fuse positions for separate circuits



FBPRM Mating Connector

Type	Connector	TPA	Female Contact	Wire Seal
Metri-pack 150	9H2FMP150	9TPA2MP150	91618FM150	9SWE150
Superseal 1.5	AP2820801	Included with connector	AP2821101	AP2819343

Fuse Reducers

Fuse Class	Fuse Amp size	Panel Amp Size	Part No.
H&K 250V	30	100	FN0213
R 250V	30	100	FN0213R
H&K 250V	60	100	FN0216
H&K 600V	30	100	FN0216
R 250V	60	100	FN0216R
R 600V	30	100	FN0216R
H&K 250V	60	200	FN0226
R 250V	60	200	FN0226R
R 250V	200	400	FN0242R
H&K 250V	100	200	FN02621
H&K 600V	100	200	FN02621
R 250/600V	100	200	FN02621R
H&K 250V	30	100	FN0263
R 250V	30	60	FN0263R
R 250/600V	100	600	FN02661R
R 250/600V	200	600	FN02662R
H&K 600V	60	100	FN0616
R 600V	60	100	FN0616R
R 600V	60	200	FN0626R
R 600V	200	400	FN0642R
H&K 600V	30	60	FN0663
R 600V	30	60	FN0663R

Fuse Reducers for NON & FRN-R 250 Volt Fuses

- Fuse reducers allow a smaller fuse to be installed in a fuse block intended for a larger fuse
- Reducers fit i to most panels or switches including the Dead-front type
- Strong contact is maintained both mechanically and electrically
- There are no reducers to go from 250V to 600V or 600V to 250V
- There are no reducers for switching from one Class to another
- There are no reducers for Class T fuses
- By design Class L fuses do not require reducers
- Part numbers with an R suffix fi ejection Class R fuse blocks





Low-Peak Fuses

Dual-Element, Time-Delay Fuses

- The Bussmann fuse upgrade offers superior performance while reducing the number of SKU's that need to be in stock.
- Low-Peak® fuses feature a high degree of current limitation, which will provide the best component protection and may reduce the arc-flash hazard.
- Fast short-circuit protection and dual-element, time-delay performance for ultimate protection
- Reduce existing fuse inventory by up to 33% when upgrading to Low-Peak® fuses. Each Low-Peak® fuse can replace all fuse types listed in the Upgrades Existing Fuses section in each chart respectively.
 - Improves fuse availability
 - Lowers costs
 - Reduces downtime
 - Reduces risk to people and property

Low Peak Fuse, Class R 250V					
Industry Part No.	Upgrades Existing Fuses				Part No.
LPN-RK_SP	A2D	DLN-R	HB	NRN	FPNRK_SP* .50 - 600 Amp Rating
	A2D-R	ECN	KLN-R	OTN	
	A2K	ECN-R	KON	REN	
	A2K-R	ERN	KTN-R	RFN	
	A2YTYPE1	FLN	LENRK	RHN	
	AT-DE	FLN-R	LKN	RLN	
	CHG	FRN	LLN-RK	TR	
	CRN-RTYPE3	FRN-R	LON-RK	655	
	CTN-R	FTN-R	NCLR	660	
	DEN	GDN	NLN	10KOTN	
	DLN	HAC-R	NON	50KOTN	

* A few of these fuses come with easy ID and are noted by an SPID suffix instead of SP. Check with your Territory Manager.



Low Peak Fuse, Class R 600V					
Industry Part No.	Upgrades Existing Fuses				Part No.
LPS-RK_SP	A6D	ERS	LES	RFS	FPSRK_SP 1.25 - 600 Amp Rating
	A6K-R	FLS	LES-R	RHS	
	AGXTYPE1	FLS-R	LES-RK	RLS	
	ATS-DE	FRS	LKS	SCLR	
	CHR	FRS-R	LLS-RK	TRS	
	CTS-R	FTS-R	LOS-RK	TRS-R	
	DES	GDS	NLS	656	
	DES-R	HA	NOS	10KOTS	
	DLS	KLS-R	NRS	50KOTS	
	DLS-R	KOS	OTS		
	ECS-R	KTS-R	RES		





Low Peak Fuse, Class CC					
Industry Part No.	Upgrades Existing Fuses				Part No.
LP-CC	A6YTYPE2B	BLN	FNM	MEN	FPCC_ .50 - 30 Amp Rating
	ABU	CCMR	FNQ	MEQ	
	AGU	CM	FNW	MOF	
	ATDR	CMF	GGU	MOL	
	ATM	CNM	HCLR	OTM	
	ATMR	CNQ	KLK	TRM	
	ATQ	CTK	KLK-R	6JX	
	BAF	CTK-R	KTK		
	BAN	FLM	KTK-R		
	BLF	FLQ	MCL		

Low Peak Fuse, Class J					
Industry Part No.	Upgrades Existing Fuses				Part No.
LPJ_SP	A4J	GF8B	JCL	JKS	FPJ_ 1 - 100 Amp Rating
	AJT	HRCXXJ	JDL	JLS	
	CJ	J	JFL	JTD	
	CJS	JA	JHC		

Low Peak Fuse, Class L					
Industry Part No.	Upgrades Existing Fuses				Part No.
KRP-C_SP	A4BQ	CLASS L	HRC-L	KTU	FRPC_SP 601 - 5000 Amp Rating
	A4BT	CLF	KLLU	L	
	A4BY	CLL	KLPC	LCL	
	A4BYTYPE55	CLU	KLU	LCU	





Fuses & Accessories

Battery Fuse	
AMPS	Part No.
30	FBBF30
40	FBBF40
50	FBBF50
60	FBBF60
75	FBBF75
80	FBBF80
90	FBBF90
100	FBBF100
125	FBBF125
150	FBBF150
175	FBBF175
200	FBBF200
225	FBBF225
250	FBBF250
300	FBBF300

Battery Fuses

- For main and auxiliary circuit protection (alternator outputs, starter motor inputs and accessories) in demanding environments or tight space constraints
- Marine-rated under SAE J1117 for ignition protection.



Mounting bar with 1/4"-20 stud, nut and cover for the FBBF battery fuse
Part No: FBBFMB

Panel-Mount Holders for 1/4" x 1-1/4" Fuses

Description, Mounting	Max. Panel Thickness (.in)	Knob Type	Terminals	Max Volts/ Amps	Part No.
High-profile cover knob, rear hexnut	.325"	Knob	1/4" quick-connect terminals	250V/30A	FH15PM
High-profile cover knob, rear hexnut	0.3"	Knob	Solder terminals	250V/30A	FHKP
High-profile cover knob, rear hexnut	0.3"	Knob	1/4" quick-connect terminals	250V/15A	FHKPHH
Low-profile cover knob, rear hexnut	0.3"	Slotted	Right angle 1/4" quick-connect terminals	250V/20A	FHTB38I
Low-profile cover knob, front hexnut	0.3"	Knob	Right angle 1/4" quick-connect terminals	250V/20A	FHTB68I
Low-profile cover knob, through-hole snap	0.125"	Knob	Right angle 1/4" quick-connect terminals	250V/20A	FHTB88I



FH15PM



FHKP



FHKPHH



FHTB38I



FHTB68I



FHTB88I

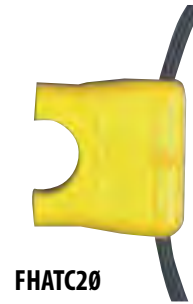


Fuses Not Actual Size

Fuse & Holders

FHATC20 ATC/ATO

In-line fuse holder accepts 2- to 20-amp blade-type fuses and constructed with 16 AWG lead wire loop molded into a housing with "write-in" space for identification.



FHATC20



FHATC30

Fuse holder designed for ATC blade-type fuses with ratings of 32V and 3 to 30 amps. They have a "write in" space for circuit identification. 12 AWG wire.



FHATC30



FHHG

In-line heavy-duty ATC fuse holder accepts 3 to 30-amp. Protective cover has removable strap. Supplied with 4 inches of 12 AWG wire.

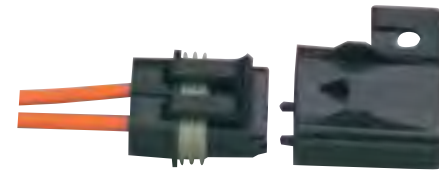


FHHG



FH25ES

Environmentally sealed auto fuse holder constructed with a latching cap. Resistant to moisture, salt spray and engine compartment fluid. Will withstand 50-G physical shock and has an operating temperature range of -40°C to 125°C. Designed for 3 to 30-amp ATC/ATO-type fuses and has 12 AWG SAE/GPT wire leads.

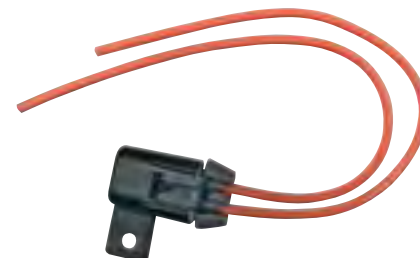


FH25ES



FH25MES

Environmentally sealed mini fuse holder constructed with a latching cap. Resistant to moisture, salt spray and engine compartment fluid. Will withstand 50-G physical shock and has an operating temperature range of -40°C to 125°C. This holder is designed for 2 to 30-amp ATM-type fuses and has 12 AWG SAE/GPT wire leads.



FH25MES



SFH & SFHM

Smart Glow® in-line small blade fuse holder with clear cap.



SFH



SFHM





Fuses & Accessories

Fuses Not Actual Size

For
ATM



FH230MI

FH230MI

In-line fuse holder accepts 3 to 30-amp mini blade-type fuses and constructed to withstand high temperatures. Protective cover has removable straps. Supplied with four inches of 12 AWG wire.

For
Maxi



FH2060MX

FH2060MX

Fuse holder accepts 20 to 60-amp fuses and features fi ewall mounting hole which permits two or more holders to be mounted together. Protective cover has removable strap. Supplied with fi e inches of 6 AWG wire.

For
Glass Fuse



FH20N

FH20N

Fuse holder supplied with eight inches of 14 AWG wire loop and furnished with an 20-amp fuse in holder.

For
Glass Fuse

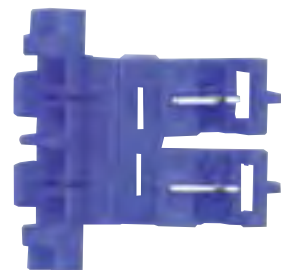


FH30B

FH30B

Use holder with bayonet-type spring locking knob supplied with eight inches of 12 AWG wire loop and a 30-amp fuse in holder.

For
ATC

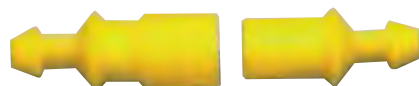


FHSL

FHSL

Fuse holder A self-stripping fuse holder designed for ATC-type fuses. Can be installed in-line where needed. Color coded, to be used on 16 to 14 AWG wire. Requires only pliers for quick installation.

For
Glass Fuse



FH30UL

FH30UL

Universal in-line fuse holder for 1/4" x 7/8", 1" and 1-1/4" fuses. Accepts 12 to 18 AWG wire leads and is rated for 30 amps, 32V.

For
Glass Fuse



FH30WP

FH30WP

Thermo-plastic, waterproof in-line fuse holder for 1/4" x 1-1/4" fuses. Ideal for harsh environments such as water, salt spray, ultraviolet light, ozone and many organic solvents. Also resists shocks and vibrations. Accepts 12 to 18 AWG wire leads and is rated for 30 amps, 32V.



FHL

32V/20A 2x4"/16 AWG (ATM) FMI Fuse Holder with cover.

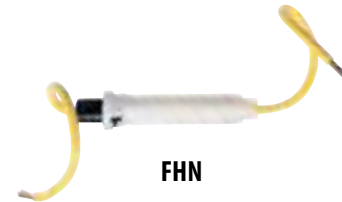


FHL

For
ATM

FHN

32V/30A 12 AWG Yellow leadwire, Nylon heavy-duty with (AGC) FC30 fuse - white body.

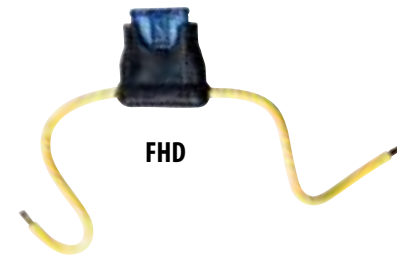


FHN

For
AGC

FHD

32V/30A 2x4"/12 AWG Heavy-duty (ATC) FT fuse holder.



FHD

For
ATC

FHF

32V/20A 2x4"/16 AWG (ATC) FT fuse holder with protective cover.



FHF

For
ATC

FHF100A

ATR 2-Leg Micro Fuse Add-A-Circuit allows easy installation of additional circuits without cutting or splicing. Works with main fuse up to 30 AMPS & added fuse up to 10 AMPS. 16 GA lead wire, 5 inch length with blue butt splice



FHF100A

For
ATR

FHM200LP

ATR 2-Leg Micro Fuse Add-A-Circuit allows easy installation of additional circuits without cutting or splicing. Works with main fuse up to 30 AMPS & added fuse up to 10 AMPS. 16 GA lead wire, 5 inch length with blue butt splice



FHM200LP

For
ATM



Fuses & Accessories

Fuses Not Actual Size

For
ATC

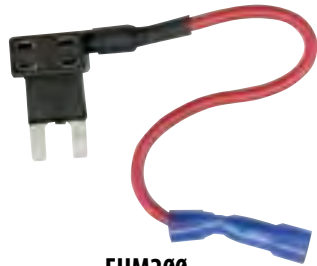


FHA10

FHA10

Fuse holder Add-A-Circuit for FT (ATO/ATC) fuses. Allows easy installation of additional circuits without cutting or splicing. Turns one fuse slot into two while providing protection for both circuits. For use with fuses up to 10 amps.

For
ATM



FHM200

FHM200

Fuse holder Mini Add-A-Circuit for FMI (MINI/ATM) fuses. (Similar to FHA10).

For
ATC/ATM



CBLBFH

Posi-Lock® No Crimp Fuse Holder

- 12–18 stranded AWG
- 30 AMPS DC
- Round fuse holder for 3/4" to 1-1/4" fuses
- Blade fuse holder can be used with both ATC & Mini fuses

Note: wire and fuse not included.

For
Round Glass
Fuse



CBLGFH

Description	Part No.
Blade fuse holder	CBLBFH
Round fuse holde	CBLGFH

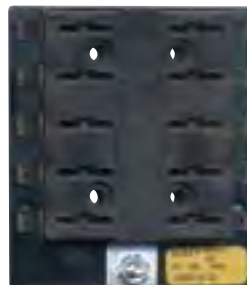
TRON Clip Clamps			
Industry No.	Size Volts	Amps	Part No.
1	250	0-30	FN01
2	250	35-60	FN02
4	600	35-60	FN04
5	250/600	70-100	FN05
6	250/600	110-200	FN06
7	250/600	225-400	FN07

TRON™ Clip-Clamps

- Clamps for ferrule and blade-type fuse clips
- Provides tight contact between fuse holder clips & fuse ferrules or blades
- Phenolic knob, plated steel jaws



For
ATC



ATC Blade Fuse Panel

Single common power input, recessed fuse contacts with quick connect terminals, up to 32 Volts.

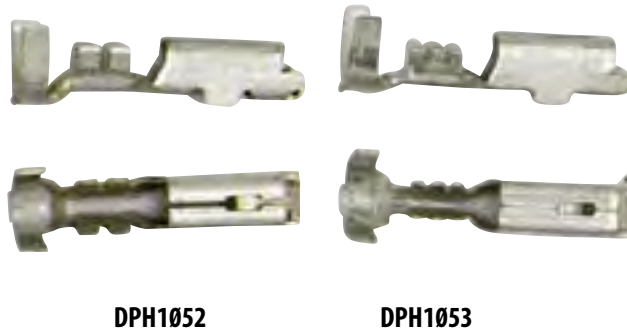
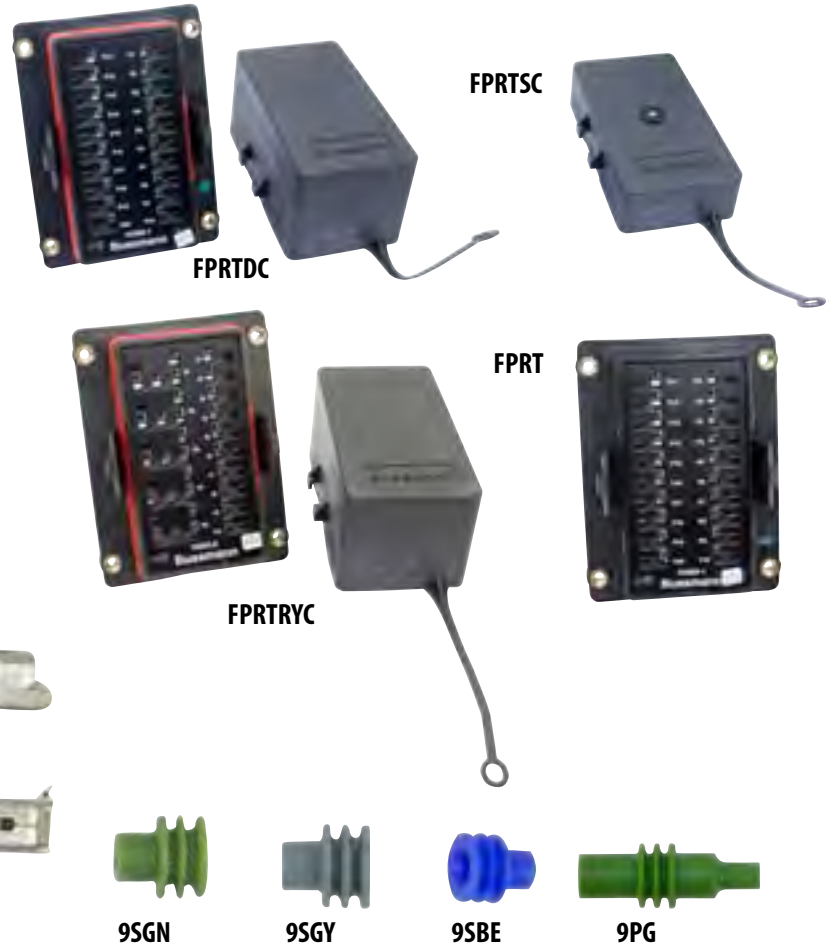
Terms	Part No.
6	BFP0620
8	BFP0820
10	BFP1020
12	BFP1220



ATM Fuse Panel

- For ATM fuses and circuit breakers – 20 positions
- Rugged, compact, rear terminated panel great for heavy-duty trucks, marine, construction, agriculture & specialty vehicles
- Can be weather-tight with use of cover, cable seals & cavity plugs
- Use with Metri-Pack 280 terminals (sealed/tangless), seals and cavity plugs, 22-12 GA. Not included.

ATM Fuse Panel	
Description	Part No.
20 position without cover	FPRT
20 position with deep cover	FPRTDC
20 position with shallow cover	FPRTSC
5 Micro relay & 10 fuse position with Cover	FPRTRYC
Socket Contact 14-12 AWG	DPH1052
Socket Contact 18-16 AWG	DPH1053
Wire Seal 18 AWG	9SGN
Wire Seal 16-14 AWG	9SGY
Wire Seal 12 AWG	9SBE
Cavity Plug	9PG



Emergency ATC/ATM Fuse Kit

Part No: EFK1

Kit contains ATC & ATM fuses in 5, 7.5, 10, 15, 20, 25 & 30 amps (one each) along with a convenient fuse puller (#FPC).



Emergency ATC/ATM/MAX Fuse Kit

Part No: EFK2

We took our Emergency ATC/ATM fuse kit and added MAXI fuses for extra protection against fleet downtime. Kit contains ATC & ATM fuses in 5, 7.5, 10, 15, 20, 25 & 30 amps, MAXI fuses in 20, 30, 40, 50 & 60 amps along with a convenient fuse puller (#FPC). (One each)



Fuses Assortments



















Micro Auto Fuses

Full Assortment

Part No. AST0210

80 Pieces (Comes in a PB24 parts bin)

Back of Drawer

 5 ATL-5 MICRO AUTO FUSE F101A5	 5 ATL-7.5 MICRO AUTO FUSE F101A7.5	 5 ATL-10 MICRO AUTO FUSE F101A10	 5 ATL-15 MICRO AUTO FUSE F101A15		
 5 ATR-30 MICRO AUTO FUSE F100A30	 5 FMM-15 MICRO AUTO FUSE F102A15	 5 FMM-20 MICRO AUTO FUSE F102A20	 5 FMM-25 MICRO AUTO FUSE F102A25	 5 FMM-30 MICRO AUTO FUSE F102A30	 5 FMM-40 MICRO AUTO FUSE F102A40
 5 ATR-5 MICRO AUTO FUSE F100A5	 5 ATR-7.5 MICRO AUTO FUSE F100A7.5	 5 ATR-10 MICRO AUTO FUSE F100A10	 5 ATR-15 MICRO AUTO FUSE F100A15	 5 ATR-20 MICRO AUTO FUSE F100A20	 5 ATR-25 MICRO AUTO FUSE F100A25

Front of Drawer






















Blade Fuses

Full Assortment

Part No. FTK

89 Pieces (Comes in a PB21L parts bin)

Back of Drawer					
 2	 2	 2	 2	 2	 1
 5	 5	 5	 5	 5	 1
 5	 5	 5	 5	 5	 1
 5	 5	 5	 5	 5	 1
Front of Drawer					

Smart Fuses

Full Assortment

Part No. SFKSA

94 Pieces (Comes in a PB24 parts bin)

Back of Drawer					
 5	 5	 5	 5	 5	 1
 5	 5	 5	 5	 5	 1
 5	 5	 5			 1
 5	 5	 5	 5	 5	 1
Front of Drawer					



BULBS & SWITCHES

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Industry No: 37
HL Part No: LB037
Design Volts: 14.00
Max O.A.L.: 13/32
AVG Life Hrs: 2500



Industry No: 53
HL Part No: LB53
Design Volts: 14.40
Max O.A.L.: 15/16
AVG Life Hrs: 1000



Industry No: 57
HL Part No: LB57A
Design Volts: 14.00
Max O.A.L.: 1-1/16
AVG Life Hrs: 500



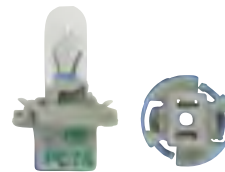
Industry No: 64
HL Part No: LB64
Design Volts: 7.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 1000



Industry No: 67
HL Part No: LB67
Design Volts: 13.50
Max O.A.L.: 1-7/16
AVG Life Hrs: 5000



Industry No: 74
HL Part No: LB74
Design Volts: 14.00
Max O.A.L.: 13/16
AVG Life Hrs: 1000



Industry No: PC74
HL Part No: LBPC74
Design Volts: 14.00
Max O.A.L.: 13/16
AVG Life Hrs: 1000



Industry No: 85
HL Part No: LB85
Design Volts: 28.00
Max O.A.L.: 13/16
AVG Life Hrs: 7000



Industry No: 89
HL Part No: LB089
Design Volts: 13.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 750



Industry No: 97
HL Part No: LB97
Design Volts: 13.50
Max O.A.L.: 1-7/16
AVG Life Hrs: 5000



Industry No: 98
HL Part No: LB098
Design Volts: 13.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 1300



Industry No: 168
HL Part No: LB68
Design Volts: 14.00
Max O.A.L.: 1-1/16
AVG Life Hrs: 1500



Industry No: 194
HL Part No: LB94
Design Volts: 14.00
Max O.A.L.: 1-1/16
AVG Life Hrs: 3500



Industry No: 194A
HL Part No: LB94NA
Design Volts: 12.80
Max O.A.L.: 1-1/16
AVG Life Hrs: 2500



Industry No: 199
HL Part No: LB99
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1500



Industry No: 211-2
HL Part No: LB2112
Design Volts: 12.80
Max O.A.L.: 1-23/32
AVG Life Hrs: 1000



Industry No: 307
HL Part No: LB07
Design Volts: 28.00
Max O.A.L.: 2
AVG Life Hrs: 300



Industry No: 313
HL Part No: LB13
Design Volts: 28.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 500



Industry No: 356
HL Part No: LB356
Design Volts: 28.00
Max O.A.L.: 15/16
AVG Life Hrs: 500



Industry No: 464
HL Part No: LB464
Design Volts: 28.00
Max O.A.L.: 1-1/16
AVG Life Hrs: 1500



Industry No: 624
HL Part No: LB24
Design Volts: 28.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 1000



Industry No: 631
HL Part No: LB63
Design Volts: 14.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 1000



Industry No: 906
HL Part No: LB06
Design Volts: 13.00
Max O.A.L.: 1-1/2
AVG Life Hrs: 1000



Industry No: 912
HL Part No: LB12
Design Volts: 12.80
Max O.A.L.: 1-1/2
AVG Life Hrs: 1000



Bulbs

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Industry No: 921
HL Part No: LB21
Design Volts: 12.80
Max O.A.L.: 1-1/2
AVG Life Hrs: 1000



Industry No: 1003
HL Part No: LB03
Design Volts: 12.80
Max O.A.L.: 1-3/4
AVG Life Hrs: 200



Industry No: 1004
HL Part No: LB04
Design Volts: 12.80
Max O.A.L.: 1-3/4
AVG Life Hrs: 200



Industry No: 1141
HL Part No: LB41
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1000



Industry No: 1156
HL Part No: LB56
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Industry No: 1156DC
HL Part No: LB1156DC
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Industry No: 1157
HL Part No: LB57
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Industry No: 1157NA
HL Part No: LB57NA
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Industry No: 1176
HL Part No: LB1176
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 300



Industry No: 1203
HL Part No: LB203
Design Volts: 28.00
Max O.A.L.: 2
AVG Life Hrs: 400



Industry No: 1251
HL Part No: LB51
Design Volts: 28.00
Max O.A.L.: 1-7/16
AVG Life Hrs: 2000



Industry No: 1252
HL Part No: LB52
Design Volts: 28.00
Max O.A.L.: 1-7/8
AVG Life Hrs: 2000



Industry No: 1445
HL Part No: LB1445
Design Volts: 14.40
Max O.A.L.: 15/16
AVG Life Hrs: 2000



Industry No: 1638
HL Part No: LB38
Design Volts: 28.00
Max O.A.L.: 2
AVG Life Hrs: 500



Industry No: 1662
HL Part No: LB62
Design Volts: 28.00
Max O.A.L.: 2
AVG Life Hrs: 400



Industry No: 1683
HL Part No: LB83
Design Volts: 28.00
Max O.A.L.: 2
AVG Life Hrs: 500



Industry No: 1816
HL Part No: LB16
Design Volts: 13.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 1000



Industry No: 1819
HL Part No: LB19
Design Volts: 28.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 4000



Industry No: 1820
HL Part No: LB20
Design Volts: 28.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 1000



Industry No: 1891
HL Part No: LB91
Design Volts: 14.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 500



Industry No: 1893
HL Part No: LB93
Design Volts: 14.00
Max O.A.L.: 1-3/16
AVG Life Hrs: 7500



Industry No: 1895
HL Part No: LB95
Design Volts: 14.00
Max O.A.L.: 1-1/16
AVG Life Hrs: 3000



Industry No: 2057
HL Part No: LB257
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Industry No: 2057NA
HL Part No: LB257NA
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 1200



Bulbs

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Industry No: 2357
HL Part No: LB2357
Design Volts: 12.80
Max O.A.L.: 2
AVG Life Hrs: 400



Industry No: 3057
HL Part No: LB357
Design Volts: 12.80
Max O.A.L.: 2-1/8
AVG Life Hrs: 1200



Industry No: 3057NA
HL Part No: LB357NA
Design Volts: 12.80
Max O.A.L.: 2-1/8
AVG Life Hrs: 1200



Industry No: 3156
HL Part No: LB156
Design Volts: 12.80
Max O.A.L.: 2-1/8
AVG Life Hrs: 1200



Industry No: 3157
HL Part No: LB457
Design Volts: 12.80
Max O.A.L.: 2-1/8
AVG Life Hrs: 1200



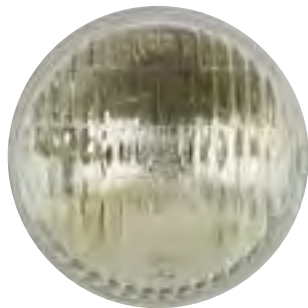
Industry No: 3157NA
HL Part No: LB457NA
Design Volts: 12.80
Max O.A.L.: 2-1/8
AVG Life Hrs: 1200



Industry No: 4157
HL Part No: LBA1000
Design Volts: 12.80
Max O.A.L.: 2.1
AVG Life Hrs: 4000-10000



Industry No: 4411
HL Part No: LB4411
Design Volts: 12.80
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 300



Industry No: 4502
HL Part No: LB02
Design Volts: 28.00
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 400



Industry No: 4509
HL Part No: LB09
Design Volts: 13.00
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 25



Industry No: 4511
HL Part No: LB4511
Design Volts: 6.20
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 300



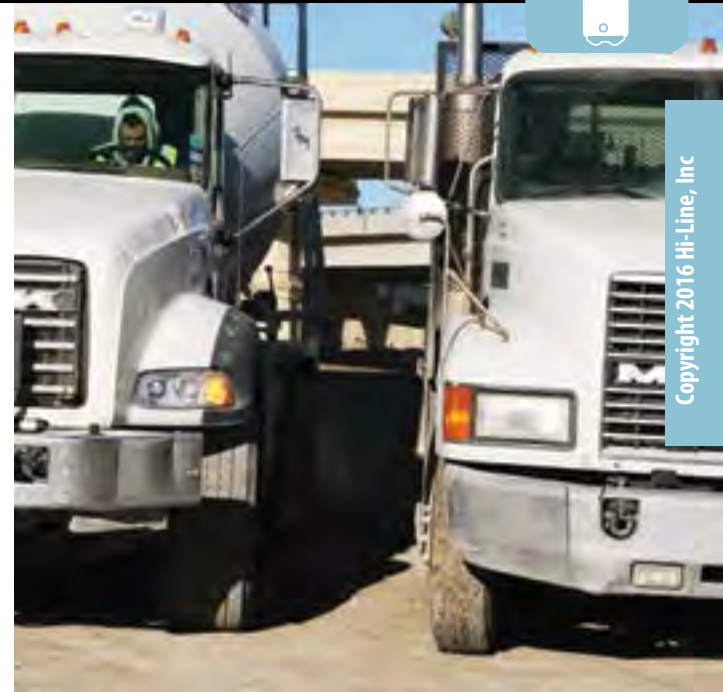
Industry No: 4537
HL Part No: LB37
Design Volts: 13.00
Max O.A.L.: 3-11/16
Diameter: 4-1/2
AVG Life Hrs: 25



Industry No: 4589
HL Part No: LB89
Design Volts: 28.00
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 400



Industry No: H7614
HL Part No: LBH7614
Design Volts: 12.80
Max O.A.L.: 2-3/4
Diameter: 4-1/2
AVG Life Hrs: 100



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Industry No: H11
HL Part No: LBH11
Design Volts: 12.80
Max O.A.L.: 2.76
AVG Life Hrs: 150



Industry No: 795
HL Part No: LBH795
Design Volts: 12.80
Max O.A.L.: 2.5
AVG Life Hrs: 200



Industry No: 9004
HL Part No: LBH9004
Design Volts: 12.80
Max O.A.L.: 2.76
AVG Life Hrs: 150/320



Industry No: 9005
HL Part No: LBH9005
Design Volts: 12.80
Max O.A.L.: 2.16
AVG Life Hrs: 150



Industry No: 9006
HL Part No: LBH9006
Design Volts: 12.80
Max O.A.L.: 2.16
AVG Life Hrs: 320



Industry No: 9007
HL Part No: LBH9007
Design Volts: 12.80
Max O.A.L.: 2.76
AVG Life Hrs: 150/320



Industry No: 9008/H13
HL Part No: LBH9008
Design Volts: 12.80
Max O.A.L.: 2.2
AVG Life Hrs: 150



Bulbs

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Industry No: H3/55W
HL Part No: TLPVH549
Design Volts: 12.00
Max O.A.L.: 2.43
AVG Life Hrs: 225



Industry No: H3/100W
HL Part No: TLPVH550
Design Volts: 12.00
Max O.A.L.: 2.43
AVG Life Hrs: 50



Industry No: H3/70W
HL Part No: TLPH370W24V
Design Volts: 24.00
Max O.A.L.: 2.43
AVG Life Hrs: 225



Industry No: H1/55W
HL Part No: TLPH155W
Design Volts: 12.00
Max O.A.L.: 1.65
AVG Life Hrs: 150



Description	Part No.
Replacement bulb, rough service, 75 WATT	DL75RS



DL75RS



Circuit Breakers

Plug-In Circuit Breakers

S.A.E. Type II. Fits Navistar (IHC) breaker blocks. Two blades on 1.08" centers.



AMPS	Part No.
10	CBP3040810
15	CBP3040815
20	CBP3040820
25	CBP3040825
30	CBP3040830

S.A.E. Type I Circuit Breaker

Constructed with heavy-duty contacts and No. 10-32 connecting studs. Meets S.A.E. standard J553. 6-12V



With Brackets	
AMPS	Part No.
10	CBR10
15	CBR15
20	CBR20
25	CBR25
30	CBR30
40	CBR40
50	CBR50

Without Brackets	
AMPS	Part No.
10	CBRC10
15	CBRC15
20	CBRC20
25	CBRC25
30	CBRC30
35	CBRC35
40	CBRC40
50	CBRC50

Panel Mounted Manual Reset Circuit Breaker S.A.E. Type III

- Voltage Up to 250V AC
- Thermoplastic body
- Terminals: 1/4" blade
- Mounting: Through panel, 7/16"-28 thread
- Operating Temp. -23°C (-10°F) to 65°C (150°F)

AMP	Part No.
10	FB17410
15	FB17415
20	FB17420
25	FB17425
30	FB17430



W58 Series Thermal Circuit Breaker

AC coil. Cannot be manually tripped. Push button to reset 15/32 x .300" (7.62 mm) long, black 6/32 screw 90 degree (screw installed). Mounting hardware is knurled nut/lock.

Configuration	AMP	Volts	P&B Part No.	Part No.
Single Pole, Push-to-Reset	15	250	W58-XC4C12A-15	APC413932491
Single Pole, Push-to-Reset	20	250	W58-XC4C12A-20	APC413932493
Single Pole, Push-to-Reset	30	250	W58-XC4C12A-30	APC413932496





Circuit Breakers

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Heavy-Duty Circuit Breakers

- For Heavy-duty truck and equipment
- Stud-mount, #10-32 studs
- 12V, SAE J553

Type III - Manual Reset Crosswise Bracket and Cover

AMPS	Part No.
10	CBB10
15	CBB15
20	CBB20
30	CBB30
40	CBB40
50	CBB50



Type III - Manual Reset Lengthwise Bracket and Cover

AMPS	Part No.
15	CBL15
20	CBL20
30	CBL30
40	CBL40
50	CBL50



Type I - Automatic Reset Crosswise Bracket

AMPS	Part No.
20	CBP20
25	CBP25
30	CBP30
40	CBP40
50	CBP50



Type I - Automatic Reset Lengthwise Bracket

AMPS	Part No.
10	CBC10
15	CBC15
20	CBC20
25	CBC25
30	CBC30
40	CBC40
50	CBC50



Type I - Automatic Reset Crosswise Bracket, Weatherproof

AMPS	Part No.
20	CBW20
30	CBW30





Battery Disconnect Switches

Battery Switch - Top Post

Top post anti-theft battery switch. Complete with HHM fuse holder, ATM-20 fuse, ring terminals and stainless steel bolt and wing nut.
Part No: BDSTP



Battery Switch - Side Post

Side post anti-theft battery switch for GM vehicles. Complete with HHM fuse holder, ATM-20 fuse and ring terminals
Part No: BDSSP



Battery Switch - Heavy Duty

Heavy-duty switch is designed to open the circuit between the battery and load of a battery powered system - typically in large truck applications. Rated at 50V AC/DC maximum, 400A continuous, it can withstand cranking or surge currents up to 2000A for 5 seconds maximum.
Part No: BDSHD



Marine-rated High Amp Circuit Breakers

- Specifically designed for marine applications
- Meets ABYC E-11 5kA interrupting & ignition protection
- Can be used as an on/off switch (3000 cycles @48Vdc)
- Corrosion resistant plating on terminals
- Good for use with battery isolators/multi-battery installations
- Waterproof
- 12V DC

Type III Manual Reset Flush Mount	
AMPS	Part No.
25	FB187F25
30	FB187F30
35	FB187F35
40	FB187F40
50	FB187F50
60	FB187F60
70	FB187F70
80	FB187F80
100	FB187F100
110	FB187F110
120	FB187F120
135	FB187F135
150	FB187F150
200	FB187F200



Type III Manual Reset Panel Mount	
AMPS	Part No.
25	FB187P25
30	FB187P30
35	FB187P35
40	FB187P40
50	FB187P50
60	FB187P60
70	FB187P70
80	FB187P80
90	FB187P90
100	FB187P100
110	FB187P110
120	FB187P120
135	FB187P135
150	FB187P150
200	FB187P200





Circuit Breakers

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High Amp Circuit Breakers

- Truck, bus, RV, marine applications
- Auxiliary & accessory circuits
- Meets SAE J1117 for ignition protection
- Good for use with battery isolators/multi-battery installations
- Flush Mount
- Waterproof
- 12V DC

Type I - Automatic Reset	
AMPS	Part No.
60	FB181F60
70	FB181F70
80	FB181F80
90	FB181F90
100	FB181F100
110	FB181F110
120	FB181F120
135	FB181F135
150	FB181F150



Type III - Manual Reset	
AMPS	Part No.
25	FB184F25
30	FB184F30
35	FB184F35
40	FB184F40
50	FB184F50
60	FB184F60
70	FB184F70
80	FB184F80
100	FB184F100
110	FB184F110
120	FB184F120
135	FB184F135
150	FB184F150



Flush Mount Manual Reset Circuit Breaker

- Voltage Up to 30V DC
- Thermoset plastic body
- Terminals: 1/4"-28 studs
- Operating Temperature -32°C (-25°F) to 82°C (180°F)

AMP	Part No.
30	FB18530
40	FB18540
50	FB18550
60	FB18560
70	FB18570
80	FB18580
90	FB18590
100	FB185100
110	FB185110
120	FB185120
135	FB185135
150	FB185150



Type III - Manual Reset Switchable with yellow reset lever

AMPS	Part No.
30	FB285F30
40	FB285F40
50	FB285F50
60	FB285F60
70	FB285F70
80	FB285F80
90	FB285F90
100	FB285F100
120	FB285F120
150	FB285F150





Maxi Circuit Breaker

Replaces Hi-Line FMX–industry MAX fuses



AMP	SAE Type I Part No.
10	FB191110
15	FB191115
20	FB191120
25	FB191125
30	FB191130
40	FB191140
50	FB191150

SAE Type I: Automatic: Continuously resets until the overload is corrected. Mini and ATC types have standard gold cover. Maxi has standard silver color.

SAE Type II: Remains open as long as the overload exists. Resets after the power is turned off and the overload is corrected. Mini and ATC types have standard silver cover.

SAE Type III: Manual: Remains open until manually reset using the button. ATC types have standard silver cover and reset button.



ATC Circuit Breaker

Replaces Hi-Line FT–industry ATC, ATO fuses

AMP	SAE Type I Part No.	SAE Type II Part No.	SAE Type III Part No.
7.5	–	–	FB2237.5
10	FB22110	FB22210	FB22310
15	FB22115	FB22215	FB22315
20	FB22120	FB22220	FB22320
25	FB22125	FB22225	FB22325
30	FB22130	FB22230	FB22330

Mini Circuit Breaker

Replaces Hi-Line FMI–industry ATM fuses

AMP	SAE Type I Part No.	SAE Type II Part No.
10	FB21110	FB21210
15	FB21115	FB21215
20	FB21120	FB21220
25	FB21125	FB21225
30	FB21130	FB21230

SAE Type I ATC/ATO Footprint Circuit Breakers

Breakers feature "snap-off" universal blades that can easily be sized to fit applications where fuse block spacing is tight, or the fuse terminal is recessed. 12V DC

Amps	Color Code	Part No.
10	Red	CBRB10
15	Blue	CBRB15
20	Yellow	CBRB20
25	Plain	CBRB25
30	Green	CBRB30



ATC Low-Profile Circuit Breaker

- Replaces ATC Low Profile fuses
- Color-coded covers indicate amperage

Type III - Manual Reset

AMPS	Color	Part No.
5	Tan	FB2275
6	Moss Green	FB2276
7-1/2	Brown	FB2277.5
10	Red	FB22710
15	Blue	FB22715
20	Yellow	FB22720
25	White	FB22725
30	Green	FB22730





Switches

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Toggle Switches

Heavy-Duty Toggle Switches are rated for 25-amp lamp load and 35-amp inductive load at 12V DC, 15-amp load at 24V DC, and 10-amp at 36V DC.

They feature screw or blade type terminals and will fit panels up to 1/4" thick.



Part No: RSW1
Type: Rocker Switch – Single Pole/
Single Throw (On/Off)
Number of Contacts: 3
Terminal Type: Screw



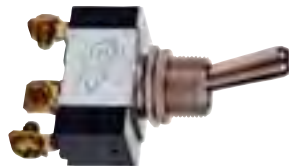
Part No: TSW1
Type: Single Pole/Single Throw
(On/Off)
Number of Contacts: 2
Terminal Type: Screw



Part No: TSW55014
Type: Single Pole/Single Throw
(On/Off)
Number of Contacts: 2
Terminal Type: Blade



Part No: TSW20
Type: Single Pole/Single Throw
(Momentary On/Off)
Number of Contacts: 2
Terminal Type: Screw



Part No: TSW2
Type: Single Pole/Double Throw
(On/None/On)
Number of Contacts: 3
Terminal Type: Screw



Part No: TSW3
Type: Single Pole/Double Throw
(On/Off/On)
Number of Contacts: 3
Terminal Type: Screw



Part No: TSW22
Type: Single Pole/Double Throw
(Mom. On/Off/ Mom. On)
Number of Contacts: 3
Terminal Type: Screw



Part No: TSW18
Type: Double Pole/Double Throw
(On/None/On)
Number of Contacts: 6
Terminal Type: Blade



Part No: TSW5590
Type: Double Pole/Double Throw
(On/None/On)
Number of Contacts: 6
Terminal Type: Screw



Part No: TSW92
Type: Double Pole/Double Throw
 (On/Off/On)
Number of Contacts: 6
Terminal Type: Screw



Part No: TSW19
Type: Double Pole/Double Throw
 (On/Off/On)
Number of Contacts: 6
Terminal Type: Blade



Part No: TSW4
Type: Double Pole/Double Throw
 (Mom. On/Off/ Mom. On)
Number of Contacts: 6
Terminal Type: Screw



Part No: TSW54100
Type: Single Pole/Single Throw
 (On/Off)
Description: Weather Resistant
Number of Contacts: 2
Terminal Type: Screw



Part No: TSW54101
Type: Single Pole/Single Throw
 (Momentary On/Off)
Description: Weather Resistant
Number of Contacts: 2
Terminal Type: Screw



Part No: TSW54104
Type: Single Pole/Double Throw
 (Mom. On/Off/ Mom. On)
Description: Weather Resistant
Number of Contacts: 3
Terminal Type: Screw



Part No: TSW54105
Type: Double Pole/Single Throw
 (On/Off)
Description: Weather Resistant
Number of Contacts: 4
Terminal Type: Screw



Part No: TSW54107
Type: Double Pole/Double Throw
 (On/Off/On)
Description: Weather Resistant
Number of Contacts: 6
Terminal Type: Screw



Part No: TSW55088
Type: Single Pole/Double Throw
 (On/Off/ Momentary On)
Number of Contacts: 3
Terminal Type: Screw



Switches

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Indicating Lights

- 12 Volt
- .250 Kwik-on tabs
- 1/2" Dia. x 1"

Indicating Lights	
Color	Part No.
Blue	PMLBE
Red	PMLRD
Amber	PMLYW



Rocker Switches

- 12 Volt / 16 Amps
- .250 Kwik-on tabs
- On/Off
- 7/16" x 1-1/8" panel opening

Rocker Switches		
Color	Feature	Part No.
Amber	Illuminated	RS16YW
Blue	Illuminated	RS16BE
Green	Illuminated	RS16GN
Red	Illuminated	RS16RD
Black	-	RS16



Illuminated Toggle Switches

- 12 Volt / 20 Amps
- .250 Kwik-on tabs
- On/Off
- 1/2" Dia. hole

Illuminated Toggle Switches		
Color	Feature	Part No.
Blue	Illuminated	TS20BE
Green	Illuminated	TS20GN
Red	Illuminated	TS20RD
Amber	Illuminated	TS20YW
Red Led	Illuminated	TS20RDLED



Duckbill Toggle Switches

- 12 Volt / 20 Amps
- .250 Kwik-on tabs
- On/Off
- 1/2" Dia. hole

Illuminated Toggle Switches		
Color	Feature	Part No.
Black	-	TSDB20
Chrome	-	TSDB20C
Amber	Illuminated	TSDB20YW





Part No: TSWB1
Description: Covers Entire Handle



Part No: TSWB2
Type: Allows Handle to Protrude



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25A Sealed Toggle Switches

- Waterproof and dustproof to IP68 standard – allows mounting anywhere on vehicle
- 25A at 12V DC, 15A at 24V DC
- Double O-ring seal in bushing; epoxy seal at back
- Wires: 14AWG (2mm²), 12" long (304.8mm)
- Switch body: 1.24" deep x 0.87" wide x 1.46" high (31.6 x 22.0 x 37.1mm)



Description	Terminations	Part No.
On-Off (SPST)	2 wire leads	TSWS1
Momentary On-Off (SPST)		TSWS2
On-Off-On (SPDT)	3 wire leads	TSWS3
On-On (SPDT)		TSWS4
Momentary On-Off-Momentary On (SPDT)		TSWS5



Lock not included.

Heavy-duty Battery Disconnect Switch

Part No: SWC0001

- Rated at 250 Amps continuous service and 2500 Amps for 5-second intervals (12V/24V).
- Silver plated electrical contacts and with a completely sealed, waterproof design, is able to withstand the most severe operating conditions.
- Comes with a lockout bracket, which enables a padlock to be inserted in the "OFF" position to comply with OSHA lock-out/tag-out regulation 1910.147. This prevents theft and accidental activation during equipment maintenance.



Sealed Key Switch with Anti-Restart

Part No: SWC0002

- 10A at 12V, 5A at 24V, 3A at 36V and 2A at 48V DC.
- Three positions: Off – Ignition/Accessory – Start. Spring return to Off.

Keyswitch is constructed from engineering thermoplastic and is fully sealed using O-rings and ultrasonic welding to protect switch to ip67 (with connector installed). Accepts Deutsch-type connectors (six position plug DDT066S with sockets). Plastic facenut and nickel-plated brass backing nut. Supplied with two matching keys. With protective key boot.



Wall Plates & Outlets

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Lighting – Wall Plates (18-8 Stainless Steel)

Excellent resistance to corrosion

Part No.	Nom. Thick (in)	Description
WPDSS	0.032	Duplex Wall Plate
WP1SSS	0.032	One Switch
WP2DSS	0.032	Two Duplex Wall Plate
WP1D1SSS	0.032	One Duplex One Switch



WPDSS



WP1SSS



WP2DSS



WP1D1SSS

Lighting – Receptacles, Switches and Wall Plates (Nylon)

Withstands abusive commercial applications

Description	Rating	Color	Wall Plate	Receptacle	Switch
Duplex 2-Pole, 3 Wire	15A-125V	Red	WPDNLRD	DR15RD	–
	15A-125V	Brown	WPDNLBN	DR15BN	–
	15A-125V	Ivory	WPDNLIV	DR15IV	–
GFCI (Ground Fault)	15A-125V	Ivory	WPGNLIV	DRG15IV	–
Toggle Switch	15A-120V	Brown	WP1SNLBN	–	LS15BN
	20A-120/277V	Brown	WP1SNLBN	–	LS20BN
	20A-120/277V	Ivory	WP1SNLIV	–	LS20IV



DR15IV



DR15BN



WPDNLBN



WPDNLIV



WP1SNLBN



WP1SNLIV



WPGNLIV



DRG15IV



LS15BN



**Full Assortment
Product Quantity**



#53
14V AUTO INST. INDICATOR
LB53














5



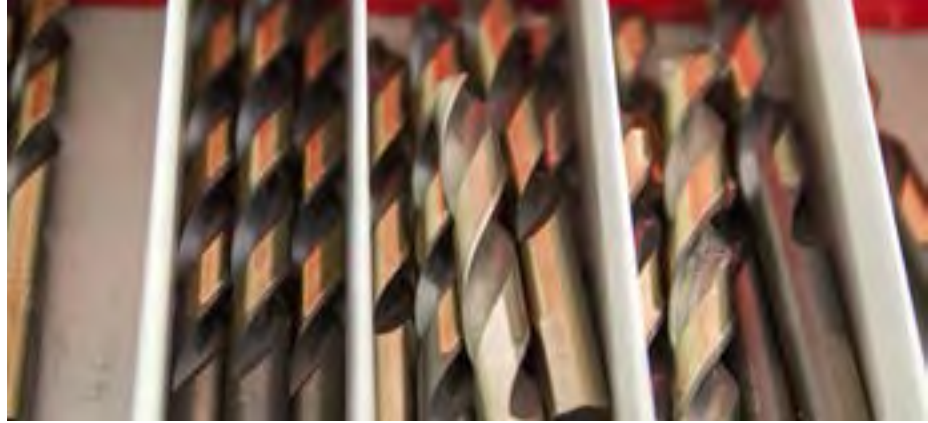
Auto Replacement Bulbs

Full Assortment
Part No. LBK
65 Pieces (Comes in a PB20 parts bin)

Back of Drawer

				 #211-2 AUTO LAMP LB2112
			 #1156 TURN LAMP LB56	 #1157 STOP/TURN LAMP LB57
 #3157 TURN, TAIL, STOP LAMP LB457	 #3157NA TURN LAMP, NAT. AMBER LB457NA	 #67 CLEARANCE LAMP LB67	 #3057 TURN LAMP LB357	 #3057NA 12V AUTO TURN LB357NA
 #53 14V AUTO INST. INDICATOR LB53	 #1891 INDICATOR, AUTO RADIO LB91	 #1895 CLEARANCE LAMP LB95	 #194 SIDE MARKER LB94	 #194NA SIDE MARKER, NAT. AMBER LB94NA

Front of Drawer



CUTTING TOOLS



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How to Drill Effectively

Successful drilling involves three elements:
 Forming a chip.
 Accommodating a chip.
 Evacuating a chip.

Drill Geometry

Use the shortest drill possible.
 Use a split point drill if possible
 Split points begin removing material on contact and drill more efficiently.

Warning: Two-flute drills should not be used to enlarge pre-existing holes.



ThunderBit® High Performance drills are made from industrial grade steel. Unique spiral flute design improves chip ejection and coolant flow to the point.



High Performance ThunderTaps® are designed for efficient, close tolerance tapping. Precision ground cutting surfaces for precise thread production.



TriNado® Drills are the perfect no-slip tool for your cordless drilling needs. The special 3-flute shank provides a positive grip in cordless, keyless and conventional power tools.

High Performance ThunderBit® Drills are Designed and Engineered to Increase Your Productivity and Tool Life

High Performance Coatings	Heavy-Duty Core Construction (ThunderBit®)	General Purpose
<p>Black Oxide</p> <p>Bronze Oxide</p>	<p>24% of Drill Diameter</p> <p>(Heavy-Duty Web Construction)</p>	
<p>Quick Penetration Split Point</p> <p>135° Split Point</p>	<p>57% of Drill Diameter</p>	

Unique spiral flute design improves chip ejection and coolant flow to the point; and the heavy-duty core guarantees increased strength and reduced breakage.



Drill & Other Bits



Aircraft/Cobalt



Part No: DBA6 and DBA12

6" Size Range: 1/16"–1/4", #52–#1

6" or 12" overall length, cobalt, aircraft extension, NAS 907, type J, bronze oxide, 135° split point is self-centering and reduces thrust. Ideal for drilling in tough, high tensile strength materials, where extra length for reach is required.



Titanium Nitrate (TiN) Coated



Part No: DBN

Size Range: 1/16"–1/2"

The TiN (Titanium Nitrite) coating provides a super hard surface with high lubricity. 135° split point. The tool life may be extended 500% or more in high wear or very abrasive drilling applications. The heavy duty construction makes it ideal for hard metals, work hardened stainless and other difficult to drill materials. Jobber Length.



Cobalt



Part No: DBC

Size Range: 1/16"–1/4", #52–#1

Cobalt steel, heavy-duty, bronze oxide, 135° split point. Used for drilling in tough, high tensile strength materials like PH stainless steel, titanium and inconel. Jobber length.



NITRO



3 Flat Shank Design

Nitro Heavy Duty - 3 Flat Shank



Part No: DBZ

Size Range: 1/16"–1/2"

The Nitro Heavy Duty 135° Split Point drill with Nitride surface treatment, that give a hard, protective layer to the drill (increases hardness without increasing brittleness), which is measurably harder than high speed steel. Body and clearance are black and gold surface treated for maximum lubricity. Recommended for use in stainless steel and other hard metal drilling. Mechanics Length with 3-fl ts.



TRI NADO



3 Flat Shank Design

TriNado™



Part No: DBF

Size Range: 1/16"–1/2"

TriNado™, high-speed steel, 135° split point, black and bronze oxide. **3-flats shank design** (3/16" and above) provides positive grip in cordless, keyless and conventional power tools. Heavy-duty construction provides additional strength. Ideal for use in medium and high tensile strength alloy materials. For use in iron, steel, stainless steel and wood. Mechanic's length.



THUNDERBIT®

MADE IN USA

Thunderbit®

Part No: DBS

Size Range: 1/16"–1/2", #60–#1, M1–M13

High-speed steel, Thunderbit® heavy-duty, black and bronze oxide, 135° split point. For quick penetration and reduced "walking." Premium grade M-7 industrial steel for longer life and heat resistance. Jobber length.



THUNDERBIT®

MADE IN USA

3/8" Reduced Shank Thunderbit

Part No: DBR38

Size Range: 27/64"–1/2"

Flatted shank, high-speed steel, black oxide flute, 3/8" shank, TriNado™ heavy-duty, jobber length, 135° split point. (Same as DBF)



3 Flat Shank Design



THUNDERBIT®

MADE IN USA

1/2" Reduced Shank Silver & Deming Thunderbit

Part No: DBR12

Size Range: 33/64"–1"

Flatted shank, high-speed steel, 1/2" shank, black and bronze, Silver & Deming, 118° point. The shank expands the size range capacity of 1/2" portable drill chucks. Common flute and overall length for minimal adjustment during tool changes. Precision ground for high degree of concentricity between shank and body diameter. Ideal for drilling in medium and high tensile strength materials. Not recommended in preformed holes. For use in iron steel, stainless steel and wood.



3 Flat Shank Design



MADE IN USA

General Purpose 118° Point

Part No: DBH

Size Range: 1/64"–1/2", #80–#1, A–Z

High-speed steel, general purpose, black oxide, 118° point. For portable and machine drilling. Designed to perform in low and medium carbon steels, cast iron, stainless steel and wood. Jobber length.



MADE IN USA

Left-Handed Medium Duty

Part No: DBL

Size Range: 1/16"–1/2"

High-speed steel, bright finish, 118°. Premium grade industrial steel. Designed for light to intermediate-duty applications. For use as screw extractors.



Drill & Other Bits



Left-Handed Heavy Duty

Part No: DBLH

Size Range: 1/16" – 1/2"

High-speed steel, 135°. Black oxide finish for corrosion resistance. Heavy duty web construction for strength and durability. General metal drilling, creates pilot holes for screw extractors.



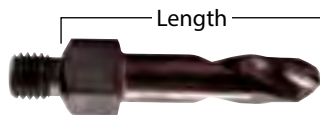
Stubby (Screw Machine)



Part No: DBM

Size Range: 1/16"–1/2", #60–#1

High-speed steel, heavy-duty, black oxide, 135° split point. The point is self-centering and reduces thrust. For portable or machine drilling. Short, rugged construction performs well in a broad range of materials such as iron, steel, stainless steel and wood.



Threaded NAS / COBALT



Part No: DBT

Size Range: 3/32"–3/8", #50–#1, C–O

High Speed Steel Threaded Shank Drills High speed steel drills are for drilling general to medium duty, low tensile strength materials in confined areas. Great for more concentric holes. Drills are manufactured to NAS 965 Type D construction with 135° P-3 split points.

	O.A.L.	Part No. Prefix
Stubby	1/2", 9/16" or 5/8"	DBTS_
Short	1-1/4"	DBT_
Long	2-1/8"	DBTL_

Features

Type B threaded hex shank
HSS Adaptor drill – NAS 965
1/4–28 UNF Class 2A thread
Surface treated-steam oxide



Hex Shank



Part No: DBX

Size Range: 1/16"–1/4"

High-speed steel, 1/4" hex shank, 118° split point, black oxide. The point is self-centering and eliminates "walking" on irregular surfaces. Designed for drilling precise holes in hard and soft wood, plywood, particleboard, plastic and metal. For hex or adjustable power tool chucks.



Masonry/Carbide Tip



Part No: DBB

Size Range: 1/8"–1-1/2"

Masonry drill bit. 118° Point, Carbide Tip, Black Oxide. Wide flutes for fast dust removal in softer materials such as brick, concrete and sandstone.



Screw Extractors

Screw extractor, helical flute, gray carbon steel. For removing broken screws, bolts and threaded parts. The extractor is inserted into a predrilled hole and the broken part is backed out with a wrench. Also for turning threaded pipe sections.



Extractor No.	For Removing Screw Size:	Use drill size:	Part No.
1	3/32 to 5/32	1/16 to 5/64	DBE1
2	5/32 to 7/32	3/32 to 7/64	DBE2
3	7/32 to 9/32	9/64 to 5/32	DBE3
4	9/32 to 3/8	7/32 to 1/4	DBE4
5	3/8 to 5/8, 1/8 & 1/4 pipe	17/64 to 19/64	DBE5
6	5/8 to 7/8, 3/8 pipe	25/64 to 27/64	DBE6
7	7/8 to 1-1/8, 1/2 pipe	33/64 to 35/64	DBE7
8	1-1/8 to 1-3/8, 3/4 pipe	25/32 to 27/32	DBE8
9	1-3/8 and up, 1" pipe	1-1/16 to 1-1/8	DBE9



Screw Extractors

- Designed to remove broken studs, bolts, socket screws and fittings for high torque applications
- Low profile enables use in confined areas
- Provides most torque of internal extractors
- Engages fastener without a deep hole
- Aggressive left-hand, multi-spline, spiral design for extra gripping power
- Use with a Flat or 1/2" Socket Wrench



Size (in)	Recommended		
	For Bolt Dia.	Drill Bit Dia.	Part No.
1/8	#12	1/8	DMSE1
5/32	1/4	5/32	DMSE2
3/16	5/16	3/16	DMSE3
7/32	3/8	7/32	DMSE4
1/4	7/16	1/4	DMSE5
9/32	1/2	9/32	DMSE6



82° Counter Sinks		
Size (in)	Description	Part No.
1/2	HSS Countersink	DCS12
5/8		DCS58
3/4		DCS34



Car Reamers

1/2" shank, high-speed steel, oxide. Three flutes on shank prevents slippage in three jaw chuck. Engineered exclusively to enlarge and align existing holes. Ideal for maintenance and repair.

Size (in)	Part No.
3/8	RMB1
9/16	RMB2
11/16	RMB3
3/4	RMB4
13/16	RMB5
15/16	RMB6
1	RMB7



Uni-Bits® (Step Drills)					
Size	Description	Hole Sizes	Shank (in)	Increments (in)	Part No.
1/8" – 1/2"	Step drill bit, self-starting	13	1/4	1/32	DBU1812
3/16" – 1/2"		6	1/4	1/16	DBU31612
1/4" – 3/4"		9	3/8	1/16	DBU1434
3/16" – 7/8"		12	3/8	1/16	DBU31678
1/4" – 1-3/8"		10	7/16	1/8	DBU14138



Drill & Other Bits

Step Drills

- An excellent tool for electrical contractors, sheetmetal workers and auto mechanics.
- Step drills are ideal for drilling repetitive holes in steel, copper, brass, plastic, plexiglass and other thin materials.
- Made of high speed steel with double fluted ground cutting edge for long life.
- TiN (Titanium Nitride) coated step drills are offered in our most popular sizes.
- The coating on these step drills allows them to last up to six times longer than those made without TiN coating.

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Step Drills, HSS			
Description	Point Type	Shank	Part No.
1/8 - 1/2 by 32nds	Self-Starting	1/4	MKM124003
3/16 - 1/2 by 16ths	Self-Starting	1/4	MKM124010
3/16 - 7/8 by 16ths	Self-Starting	3/8	MKM124027
1/4 - 3/4 by 16ths	Self-Starting	3/8	MKM124034
1/4 - 1-1/8 by 16ths	Self-Starting	3/8	MKM124041
1/8 - 3/8 by 16ths	Self-Starting	1/4	MKM124058
1/8 - 1/2 by 16ths	Self-Starting	1/4	MKM124065
9/16 - 1 by 16ths	Hole Enlarging 1/2	3/8	MKM124072
3/4 - 1-3/8 by 16ths	Hole Enlarging 3/4	1/2	MKM124089
1/4 - 7/8 by 16ths	Self-Starting	3/8	MKM124096
1/4 - 1-3/8 by 8ths	Self-Starting	3/8	MKM124102



Step Drills, Tin Coated			
Description	Point Type	Shank	Part No.
1/8 - 1/2 by 32nds	Self-Starting	1/4	MKM124119
3/16 - 1/2 by 16ths	Self-Starting	1/4	MKM124126
3/16 - 7/8 by 16ths	Self-Starting	3/8	MKM124133
1/4 - 3/4 by 16ths	Self-Starting	3/8	MKM124140



MKM124119



MKM124126



MKM124133



MKM124140



Spade Bits

- A popular item for boring small holes through wood. Angled spur design cuts accurate holes cleanly and quickly.
- Stem works with 1/4" Fast-Adapt™



Diameter		1/Card Part No.	10/Box Part No.
Inches	Metric		
1/4	6mm	MKM125307	MKM125000
5/16	8mm	MKM125314	MKM125017
3/8	10mm	MKM125321	MKM125024
7/16	11mm	MKM125338	MKM125031
1/2	13mm	MKM125345	MKM125048
9/16	14mm	MKM125352	MKM125055
5/8	16mm	MKM125369	MKM125062
11/16	17mm	MKM125376	MKM125079
3/4	19mm	MKM125383	MKM125086
13/16	21mm	MKM125390	MKM125093
7/8	22mm	MKM125406	MKM125109
15/16	24mm	MKM125413	MKM125116
1	25mm	MKM125420	MKM125123
1-1/8	29mm	MKM125437	MKM125130
1-1/4	32mm	MKM125444	MKM125147
1-3/8	35mm	MKM125451	MKM125154
1-1/2	38mm	MKM125468	MKM125161

Self Feeding Wood Bits

- Morse self feeding wood bits are precision ground for clean, accurate holes.
- They are designed with a threaded feed screw tip and a single chip lifter for fast, efficient chip removal.
- These bits can be resharpened using the Morse Auger/Wood bit file .
- 7/16" shanks have milled flutes for secure gripping by the chuck.*

Diameter		Part No.
Inches	Metric (mm)	
1	25	MKM123822
1-1/8	29	MKM123839
1-1/4	32	MKM123846
1-3/8	35	MKM123853
1-1/2	38	MKM123860
1-3/4	44	MKM123877
2	51	MKM123884
2-1/8	54	MKM123891
2-1/4	57	MKM123907
2-9/16	65	MKM123914
3	76	MKM123921
3-5/8	92	MKM123938
4-5/8	118	MKM123945
5-1/2 Extension		MKM123990

Self Feeding Wood Bit Kits

Part No: MKM123952

- 4 Piece Contractor Kit
- Contains: 1-3/8", 1-1/2", 2-1/8" and 2-9/16"

Part No: MKM123969

- 8 Piece Contractor Kit
- Contains: 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2-1/8", 2-9/16" and 5-1/2" Extension



Screw Tip Replacement Kits

Part No: MKM123976

- For 1" to 2-9/16" (25-65mm) bits
- Contains: 3 screw tips, 1 set screw, 1 hex key

Part No: MKM123983

- For 3" to 4-5/8" (76-117mm) bits
- Contains: 3 screw tips, 1 set screw, 1 hex key

* Shanks are designed to work in Fast-Adapt™ MKM140393 quick change chuck adaptors and standard chucks.

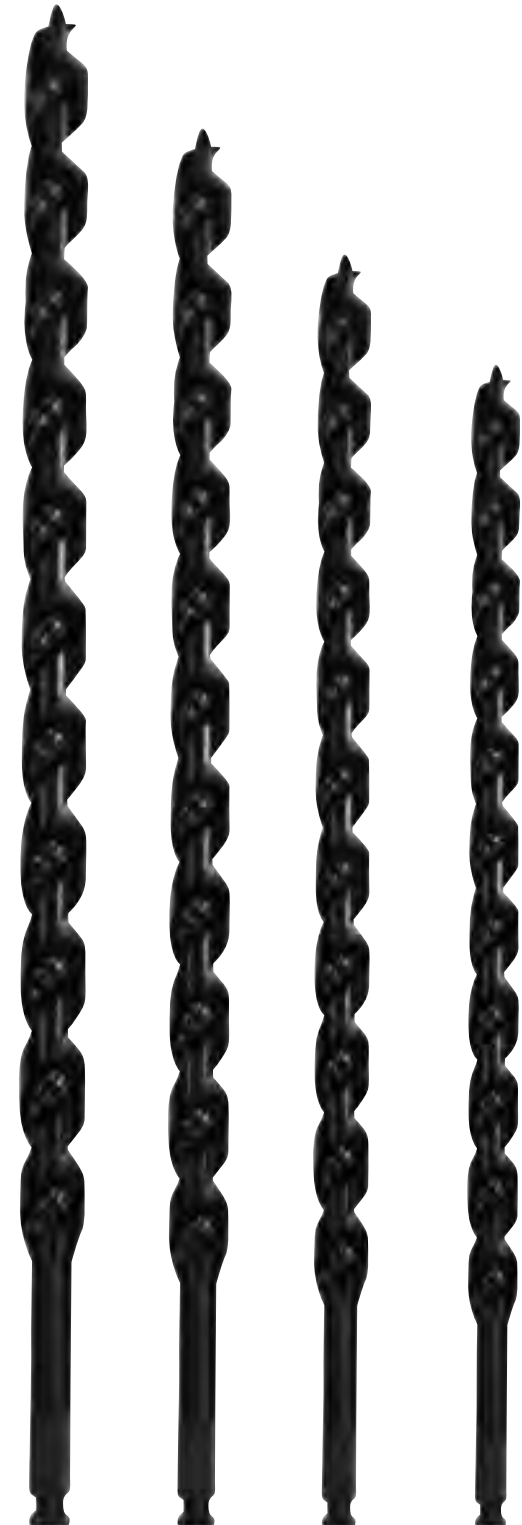


Drill & Other Bits

Double Cut Auger Bits

- Premium double fluted auger bits provide excellent deep boring in wood and nail embedded wood applications.
- Precision ground, heat-treated and tempered cutting edges cut through nails.

Bore Diameter		Length	1/Pkg. Part No.
Inches	Metric (mm)		
1/4	6	7-1/2	MKM125772
5/16	8	7-1/2	MKM125789
3/8	10	7-1/2	MKM125796
7/16	11	7-1/2	MKM124973
1/2	13	7-1/2	MKM124980
9/16	14	7-1/2	MKM124997
5/8	16	7-1/2	MKM125666
11/16	17	7-1/2	MKM125673
3/4	19	7-1/2	MKM125680
13/16	21	7-1/2	MKM125697
7/8	22	7-1/2	MKM125703
15/16	24	7-1/2	MKM125710
1	25	7-1/2	MKM125727
1-1/8	29	7-1/2	MKM125734
1-1/4	32	7-1/2	MKM125741
1-3/8	35	7-1/2	MKM125758
1-1/2	38	7-1/2	MKM125765
3/8	9.5	18	MKM125505
7/16	11	18	MKM125512
1/2	13	18	MKM125529
9/16	14	18	MKM125536
5/8	16	18	MKM125543
11/16	17	18	MKM125550
3/4	19	18	MKM125567
13/16	21	18	MKM125574
7/8	22	18	MKM125581
15/16	24	18	MKM125598
1	25	18	MKM125604
1-1/16	27	18	MKM125611
1-1/8	29	18	MKM125628
1-1/4	32	18	MKM125635
1-3/8	35	18	MKM125642
1-1/2	38	18	MKM125659



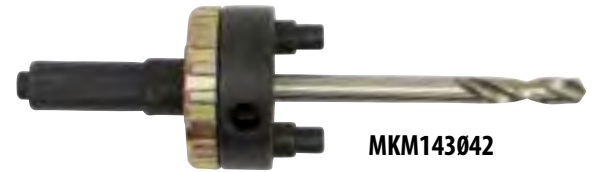
Shanks are designed to work in Fast-Adapt® MKM140393 quick change chuck and standard 1/2 chucks.



Fast Adapt QR

- Change hole saw in less time.

Fast Adapt QR		
Description	Works With	Part No.
Universal Arbor	Fast Adapt	MKM143042
Pilot Drill	Universal Arbor	MKM143035
Fast Adapt 5/8 Thread	1-1/4 Larger Saws	MKM143011
Fast Adapt 1/2 Thread	Up to 1-3/16 Saws	MKM143028
Combo Pack: (3) 5/8", (2) 1/2" Adapters	All Hole Saws	MKM143004



MKM143042



MKM143035



MKM143011



MKM143028

Fast Adapt Chuck

- Allow for fast keyless insertion and removal of any 1/4", 3/8" or 7/16" hex shank power tool accessory that has a power groove.
- Fits 3/8" and larger chucks.

3/8" & 7/16"



MKM140393

1/4"



MKM140386





Carbide Burs

Carbide Burs



Cylindrical			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	5/8	1/4	B1SA1
	3/4	3/8	B1SA3
	1	1/2	B1SA5
	1	5/8	B1SA6
1/8	7/16	3/32	B2SA42
	9/16	1/8	B2SA43
	1/2	1/4	B2SA51



Cylindrical End – Alum			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	1	1/2	B3SA5NF



Cylindrical with End Cut			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	3/4	3/8	B1SB3
	1	5/8	B1SB6



Cylindrical End Cutting			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/8	3/16	1/4	B2SB51



Cylindrical with Radius			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	5/8	1/4	B1SC1
	3/4	3/8	B1SC3
	1	1/2	B1SC5



Cylindrical Ball Nose			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/8	9/16	1/8	B2SC41
	1/2	1/4	B2SC51



Cylindrical Radius – Alum			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	3/4	1/4	B3SC1NF
	1	1/2	B3SC5NF



Ball			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	1/4	1/4	B1SD1
		5/16	B1SD2
		1/2	B1SD5
1/8	1/8	1/8	B2SD42
		1/4	B2SD51
		3/32	B2SD61



Oval			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	5/8	3/8	B1SE3
	7/8	1/2	B1SE5
1/8	7/32	1/8	B2SE41
	3/8	1/4	B2SE51

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Tree with Radius End			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	5/8	1/4	B1SF1
	3/4	3/8	B1SF3
	1	1/2	B1SF5
1/8	1/2	1/8	B2SF42
	1/2	1/4	B2SF51



Tree with Pointed End			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	3/4	3/8	B1SG3
	1	1/2	B1SG5
1/8	1/4	1/8	B2SG41
	1/2	1/8	B2SG44
	1/2	1/4	B2SG51



Tree with Radius Alum			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	1	1/2	B3SF5NF



Flame			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/4	5/8	1/4	B1SH1
1/8	1/4	1/8	B2SH41



Pointed Cone				
Shank (in)	Flute (in)	Head Dia. (in)	Description	Part No.
1/4	3/4	1/4	Pointed Cone 14° Angle	B1SM2
	7/8	1/2	Pointed Cone 28° Angle	B1SM5
1/8	7/16	1/8	Pointed Cone 14° Angle	B2SM42
	5/8	1/8	Pointed Cone 7° Angle	B2SM43
	1/2	1/4	Pointed Cone 22° Angle	B2SM51



Taper				
Shank (in)	Flute (in)	Head Dia. (in)	Description	Part No.
1/4	1-1/16	3/8	Taper 14° Angle w/Radius	B1SL3
	1-1/8	1/2	Taper 14° Angle w/Radius	B1SL4
	1-1/8	1/2	Taper 14° Angle – Alum	B3SL4NF



Inverted Taper			
Shank (in)	Flute (in)	Head Dia. (in)	Part No.
1/8	1/4	1/4	B2SN51





Taps & Dies

Taps & Dies



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Inch

Thread Size	High-Speed Steel – Thundertaps			Carbon Steel			
	Plug Taps	Bottoming Taps	Taper Taps	TPR, PLG, BTM 3 Piece Set	Spiral Point Plug Taps	Plug Taps	Hexagon Dies
#4 – 40 NC	TPS440	TBS440	TTS440	TPBS440	TPT440	TPP440	DE440
#6 – 32 NC	TPS632	TBS632	TTS632	TPBS632	TPT632	TPP632	DE632
#8 – 32 NC	TPS832	TBS832	TTS832	TPBS832	TPT832	TPP832	DE832
#10 – 24 NC	TPS1024	TBS1024	TTS1024	TPBS1024	TPT1024	TPP1024	DE1024
#10 – 32 NF	TPS1032	TBS1032	TTS1032	TPBS1032	TPT1032	TPP1032	DE1032
#12 – 24 NC	TPS1224	TBS1224	TTS1224	TPBS1224	TPT1224	TPP1224	DE1224
1/4" – 20 NC	TPS1420	TBS1420	TTS1420	TPBS1420	TPT1420	TPP1420	DE1420
1/4" – 28 NF	TPS1428	TBS1428	TTS1428	TPBS1428	TPT1428	TPP1428	DE1428
5/16" – 18 NC	TPS51618	TBS51618	TTS51618	TPBS51618	TPT51618	TPP51618	DE51618
5/16" – 24 NF	TPS51624	TBS51624	TTS51624	TPBS51624	TPT51624	TPP51624	DE51624
3/8" – 16 NC	TPS3816	TBS3816	TTS3816	TPBS3816	TPT3816	TPP3816	DE3816
3/8" – 24 NF	TPS3824	TBS3824	TTS3824	TPBS3824	TPT3824	TPP3824	DE3824
7/16" – 14 NC	TPS71614	TBS71614	TTS71614	TPBS71614	TPT71614	TPP71614	DE71614
7/16" – 20 NF	TPS71620	TBS71620	TTS71620	TPBS71620	TPT71620	TPP71620	DE71620
1/2" – 13 NC	TPS1213	TBS1213	TTS1213	TPBS1213	TPT1213	TPP1213	DE1213
1/2" – 20 NF	TPS1220	TBS1220	TTS1220	TPBS1220	TPT1220	TPP1220	DE1220
9/16" – 12 NC	–	–	–	–	–	TPP91612	DE91612
9/16" – 18 NF	–	–	–	–	–	TPP91618	DE91618
5/8" – 11 NC	TPS5811	TBS5811	TTS5811	TPBS5811	–	TPP5811	DE5811
5/8" – 18 NF	TPS5818	TBS5818	TTS5818	TPBS5818	–	TPP5818	DE5818
3/4" – 10 NC	TPS3410	TBS3410	TTS3410	TPBS3410	–	TPP3410	DE3410
3/4" – 16 NF	TPS3416	TBS3416	TTS3416	TPBS3416	–	TPP3416	DE3416
7/8" – 9 NC	TPS789	TBS789	TTS789	TPBS789	–	TPP789	DE789
7/8" – 14 NF	TPS7814	TBS7814	TTS7814	TPBS7814	–	TPP7814	DE7814
1" – 8 NC	TPS18	TBS18	TTS18	TPBS18	–	TPP18	DE18
1" – 12 NF	TPS112	TBS112	TTS112	TPBS112	–	TPP112	DE112
1" – 14 NS	–	–	–	–	–	TPP114	DE114

Thread Descriptions

NC = National Coarse Thread
 NF = National Fine Thread
 NPT = National Pipe Thread

Die Sizes Across the Flats

#6 – 1/2": 1"
 9/16", 5/8", 3/4" – 10, 7/8" – 9 : 1-7/16"
 3/4" – 16, 7/8" – 14, 1" : 1-13/16"



Tapping Geometry

- **Spiral Point Taps** push the chips forward, and are recommended for through holes.
- **Taper Taps** are used for starting threads in tougher materials.
- **Bottoming Taps** are used for blind holes to obtain the maximum length of thread.
- **Plug Taps** are suitable for either through or blind holes, where ample clearance remains between the thread the the bottom of the hole.

ThunderTap

Material: High Speed Steel

Coating/Finish: Bronze Oxide

Chamfer: Taper (7 – 10 threads long); Plug (3 – 5 threads long); Bottoming (1 – 2 threads long)

Tap Flutes		
Description	Size	No. of Flutes
Plug, Bottoming & Taper	#4 – #6	3
	#8 & larger	4
	M3	3
	M4 & larger	4
Spiral	1/4 – 5/16	2
	3/8 – 1/2	3
Pipe	1/8 – 1/2	4
	3/4 – 1-1/4	5
	1-1/4 – 1-1/2	7

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Thread Size	Metric Plug Tap	Metric Die
3mm – .50mm	TPPM350	DEM350
4mm – .70mm	TPPM470	DEM470
4mm – .75mm	TPPM475	DEM475
5mm – .80mm	TPPM580	DEM580
5mm – .90mm	TPPM590	DEM590
6mm – 1.00mm	TPPM6100	DEM6100
7mm – 1.00mm	TPPM7100	DEM7100
8mm – 1.00mm	TPPM8100	DEM8100
8mm – 1.25mm	TPPM8125	DEM8125
9mm – 1.00mm	TPPM9100	DEM9100
9mm – 1.25mm	TPPM9125	DEM9125
10mm – 1.25mm	TPPM10125	DEM10125
10mm – 1.50mm	TPPM10150	DEM10150
11mm – 1.50mm	TPPM11150	DEM11150
12mm – 1.50mm	TPPM12150	DEM12150
12mm – 1.75mm	TPPM12175	DEM12175
14mm – 1.50mm	TPPM14150	DEM14150
14mm – 2.00mm	TPPM14200	DEM14200
16mm – 1.50mm	TPPM16150	DEM16150
16mm – 2.00mm	TPPM16200	DEM16200
1/8" – 28 BSP	TPPM1828	DEM1828

Metric

MADE IN USA



Carbon Steel





Taps & Dies



TPP



TPS



MADE IN USA



5/8" Hex – Plain Die Stock
Part No: TD120



1" Dies Adjustable
Part No: TD130

1-7/16" Dies Adjustable
Part No: TD210

1-13/16" Dies Adjustable
Part No: TD220



Adjustable Tap Wrench
Tap Size: 0" – 1/2"
Part No: TD140

Tap Size: 1/4" – 1"
Part No: TD230



T-Tap Wrench
Tap Size: 0" – 1/4"
Part No: TD150

Tap Size: 1/4" – 1/2"
Part No: TD160

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Pipe Thread (NPT)

Thread Size	H.S.S Plug Tap	Carbon Steel Plug Tap	Die
1/8" – 27 NPT	TPS1827	TPP1827	DE1827
1/4" – 18 NPT	TPS1418	TPP1418	DE1418
3/8" – 18 NPT	TPS3818	TPP3818	DE3818
1/2" – 14 NPT	TPS1214	TPP1214	DE1214
3/4" – 14 NPT	TPS3414	TPP3414	DE3414
1" – 11.5 NPT	TPS11112	TPP11112	

Die Sizes Across the Flats:

Up through 1/4" – 18 : 1"

Larger : 1" – 7/16



MADE IN USA

Spark Plug Taps

Thread Size	Spark Plug Tap
7/8" – 18NS	TPS7818
10mm – 1.0mm	TPS10100
12mm – 1.25mm	TPS12125
14mm – 1.25mm	TPS14125
18mm – 1.50mm	TPS18150

Thread Descriptions

NC = National Coarse Thread

NF = National Fine Thread

NPT = National Pipe Thread

Chamfer

Taper = (7–10) threads long

Plug = (3–5) threads long

Bottoming = (1–2) threads long



Size	Part No.
4-40	CUT0001
4-48	CUT0002
5-40	CUT0003
5-44	CUT0004
6-32	CUT0005
6-40	CUT0006
8-32	CUT0007
8-36	CUT0008
10-24	CUT0009
10-32	CUT0010
12-24	CUT0011
12-28	CUT0012
1/4-20	CUT0013
1/4-28	CUT0014
5/16-18	CUT0015
5/16-24	CUT0016
3/8-16	CUT0017
3/8-24	CUT0018
7/16-14	CUT0019
7/16-20	CUT0020
1/2-13	CUT0021
1/2-20	CUT0022



Combination Drill & Tap



Combination Drill & Taps are great for on-site tapping for maintenance & construction. Self-centering point provides excellent drilling precision. Top quality tool steel ensures long life.



Sets

7 pc. set comes in folding pouch with belt clips.

Coarse Thread Set

Part No: CUT0023

8-32, 10-24, 1/4-20, 5/16-18
3/8-16, 7/16-14, 1/2-13

Fine Thread Set

Part No: CUT0024

8-36, 10-32, 1/4-28, 5/16-24
3/8-24, 7/16-20, 1/2-20



CUT0023

Folding case comes with a belt clip on back.

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Reciprocating Saw Blades

Bi-Metal Reciprocating Saw Blades



Bi-Metal Reciprocating Saw Blades									
Recommended Use	Length		Teeth Per Inch	1/Card Part No.	2/Card Part No.	5/Tube Part No.	15/Tube Part No.	25/Tube Part No.	50/Tube Part No.
	Inches	Metric (mm)							
Demolition, nail embedded & all wood	12 X 3/4 X .050	300 X 20 X 1.3	2/3	-	-	MKM401593	-	-	MKM401616
General rough-in, all woods, nail-embedded woods.	6 X 3/4 X .035	150 X 20 X .9	6	JRB63506W	-	-	-	-	MKM400183
	6 X 3/4 X .050	150 X 20 X 1.3	6	JRB65006W	MKM397339	-	-	MKM398732	MKM402057
	6 X 3/4 X .050	150 X 20 X 1.3	5/8	-	-	MKM398510	-	-	MKM398503
	9 X 3/4 X .035	225 X 20 X .9	6	JRB93506W	-	-	-	-	MKM400169
	9 X 3/4 X .050	225 X 20 X 1.3	6	JRB95006W	MKM397391	-	-	MKM398794	MKM402033
	12 X 3/4 X .035	300 X 20 X .9	6	-	-	MKM400152	-	-	MKM400145
	12 X 3/4 X .050	300 X 20 X 1.3	6	JRB125006W	-	-	-	MKM398633	MKM402149
	12 X 3/4 X .050	300 X 20 X 1.3	5/8	-	-	-	-	-	MKM398442
General purpose, metal cutting, nail-embedded woods.	8 X 3/4 X .050	200 X 20 X 1.3	8/12	-	-	MKM400930	-	-	MKM400947
	12 X 3/4 X .050	300 X 20 X 1.3		-	-	MKM400916	-	-	MKM400923
	12 X 3/4 X .035	300 X 20 X .9	10/14	JRB121014WM	-	-	-	-	MKM400107
Heavy duty metal cutting, nail-embedded woods.	6 X 3/4 X .050	150 X 20 X 1.3	10/14	-	-	MKM398541	-	-	MKM398534
	12 X 3/4 X .050	300 X 20 X 1.3	10/14	JRB12501014SP	-	-	-	-	MKM398428
Heavy gauge metal, rubber & fiber, nail embedded wood.	4 X 3/4 X .035	100 X 20 X .9	10/14	JRB41014WM	-	-	-	-	MKM402606
Wood, nail-embedded wood, compositions, plastic, metals 1/8" and above	6 X 3/4 X .035	150 X 20 X .9	10/14	JRB61014WM	-	-	-	-	MKM402019
Heavy duty wood/metal cutting. General purpose, metal cutting, nail-embedded woods.	6 X 3/4 X .050	150 X 20 X 1.3	10/14	JRB6501014WM	MKM397360	-	-	-	MKM399227
	8 X 3/4 X .035	200 X 20 X .9		JRB81014WM	MKM397407	-	MKM398411	MKM398756	MKM402101
For soil pipe.	8 X 3/4 X .050	200 X 20 X 1.3	10/14	JRB8501014SP	MKM397384	-	-	-	MKM402064
Wood, nail-embedded wood, compositions, plastic, cast aluminum, and non-ferrous metals	6 X 3/4 X .035	150 X 20 X .9	10	JRB610WM	MKM397285	-	-	MKM398664	MKM400381
	12 X 3/4 X .035	300 X 20 X .9		JRB1210WM	-	-	-	-	MKM400244

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Continued on next page





Bi-Metal Reciprocating Saw Blades continued									
Recommended Use	Length		Teeth Per Inch	1/Card Part No.	2/Card Part No.	5/Tube Part No.	15/Tube Part No.	25/Tube Part No.	50/Tube Part No.
	Inches	Metric (mm)							
All woods, composition materials, plastic, nail embedded wood, cast aluminum, light gauge metals	8 X 3/4 X .035	200 X 20 X .9	10	JRB810WM	-	-	-	MKM398749	MKM400466
	10 X 3/4 X .035	250 X 20 X .9		JRB1010WM	-	-	-	-	MKM402569
Heavy gauge metals 1/8" thick and above. Barstock and angles.	4 X 3/4 X .035	100 X 20 X .9	14	JRB414M	-	-	-	-	MKM400220
	6 X 3/4 X .035	150 X 20 X .9		JRB614M	MKM397308	-	MKM398381	MKM398671	MKM400404
	8 X 3/4 X .035	200 X 20 X .9		JRB814M	MKM397377	-	-	MKM398763	MKM400480
	9 X 3/4 X .035	225 X 20 X .9		-	-	MKM400985	-	-	MKM400992
	12 X 3/4 X .035	300 X 20 X .9		JRB1214M	-	-	-	-	MKM400121
Heavy duty metal cutting 1/8" thick and above	6 X 3/4 X .050	150 X 20 X 1.3	14	-	-	MKM399623	-	-	MKM399616
Heavy gauge metals of 18 gauge to 1/8" thick, conduit, pipe, channels, and tubing.	4 X 3/4 X .035	100 X 20 X .9	18	JRB418M	MKM397247	-	-	-	MKM400268
	6 X 3/4 X .035	150 X 20 X .9		JRB618M	MKM397315	-	MKM398398	MKM398688	MKM400428
	8 X 3/4 X .035	200 X 20 X .9		JRB818M	-	-	-	MKM398770	MKM402583
	9 X 3/4 X .035	225 X 20 X .9		-	-	MKM401005	-	-	MKM401012
	10 X 3/4 X .035	250 X 20 X .9		-	-	MKM398497	-	-	MKM398480
	12 X 3/4 X .035	300 X 20 X .9		JRB1218M	-	-	-	MKM398619	MKM400206
Heavy duty metal cutting 18 gauge to 1/8" thick	6 X 3/4 X .035	150 X 20 X 1.3	18	-	-	MKM399647	-	-	MKM399630
Metal cutting 18 gauge and under. Trim and tubing. Galvanized pipe under 18 gauge.	4 X 3/4 X .035	100 X 20 X .9	24	-	-	-	-	-	MKM400305
	6 X 3/4 X .035	150 X 20 X .9		JRB624M	MKM397322	-	-	MKM398701	MKM400442
Plaster with metal lath, plaster-board, sheet rock, plaster walls.	6 X 3/4 X .035	150 X 20 X .9	6	JRB606SP	-	-	-	-	MKM400343
General rough-in scroll cuts, all woods, nail embedded woods	6 X 7/16 X .050	150 X 11 X 1.3	6	JRB65006SP	-	-	-	-	MKM399500
Scroll cuts in wood and cast aluminum, nonferrous metals	3 X 5/16 X .035	75 X 6 X .9	18	JRB318SP	-	-	-	-	MKM401982



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Reciprocating Saw Blades

Tungsten Carbide Grit Reciprocating Saw Blades

- Their super resistance to heat and shock make them ideal for cutting materials too hard or abrasive for standard bi-metal blades. Ideal for cutting hardened steel, formed glass, brick, tile, ceramics, cement, fiber glass, marble, steel, plaster & lathe, laminates, and composites.

Length		1/Card Part No.	3/Card Part No.	25/Tube Part No.
Inches	Metric (mm)			
4	100	MKM402750	MKM403368	MKM402910
6	150	MKM402767	MKM403375	MKM402927
8	200	MKM402774	MKM403382	MKM402934



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Tungsten Carbide Tip Reciprocating Saw Blades

- For cutting abrasive materials such as fiber glass, particle board, cement board, nail-free wood, non-ferrous metals, plastic, drywall, fiber board, and pressure treated lumber.



Length x Width x Thickness		Teeth Per Inch	1/Card Part No.	3/Card Part No.	25/Tube Part No.
Inches	Metric (mm)				
6 X 3/4 X .050	150 x 20 X 1.3	3	MKM403047	MKM403443	MKM403122
6 X 3/4 X .050	150 x 20 X 1.3	6	MKM403054	MKM403450	MKM403139
9 X 3/4 X .050	225 x 20 X 1.3	3	MKM403061	MKM403467	MKM403146
9 X 3/4 X .050	225 x 20 X 1.3	6	MKM403078	MKM403474	MKM403153
12 X 3/4 X .050	300 x 20 X 1.3	3	MKM403085	MKM403481	MKM403108
12 X 3/4 X .050	300 x 20 X 1.3	6	MKM403092	MKM403498	MKM403115





The Havoc® Demolition Reciprocating Saw Blades

- Specially designed for the toughest demolition jobs.
- Cuts all woods, nail-embedded wood and metals.



Length x Width x Thickness		Teeth Per Inch	1/Card Part No.	3/Card Part No.	20/Tube Part No.
Inches	Metric (mm)				
6 X 7/8 X .062	150 X 22.5 X 1.6	6	-	MKM398350	MKM398343
9 X 7/8 X .062	225 X 22.5 X 1.6		MKM397186	MKM402422	MKM402415
12 X 7/8 X .062	300 X 22.5 X 1.6		MKM397209	MKM398312	MKM398305
6 X 7/8 X .062	150 X 22.5 X 1.6	10	-	MKM398374	MKM398367
9 X 7/8 X .062	225 X 22.5 X 1.6		-	MKM402446	MKM402439
12 X 7/8 X .062	300 X 22.5 X 1.6		-	MKM398336	MKM398329

Fire & Rescue Reciprocating Saw Blades

- When lives are on the line, only the best will do. These are the blades preferred by professional firefighters.



Length x Width x Thickness		Teeth Per Inch	1/Card Part No.	3/Card Part No.	20/Tube Part No.
Inches	Metric (mm)				
6 X 7/8 X .062	150 X 22.5 X 1.6	10	-	MKM403665	MKM403511
9 X 7/8 X .062	225 X 22.5 X 1.6		-	MKM403689	MKM403528
12 X 7/8 X .062	300 X 22.5 X 1.6		-	MKM403702	MKM403504
6 X 7/8 X .062	150 X 22.5 X 1.6	14	MKM397117	MKM403672	MKM403542
9 X 7/8 X .062	225 X 22.5 X 1.6		MKM397131	MKM403696	MKM403559
12 X 7/8 X .062	300 X 22.5 X 1.6		MKM397155	MKM403719	MKM403535

U-Shank Bi-metal Reciprocating Saw Blades

- Specially designed for sawing pipes and metal sections.
- Fits saws from manufacturers like REMS, Roller's, Ridgid and Flex.



Length x Width x Thickness		Teeth Per Inch	5/Tube Part No.
Inches	Metric (mm)		
12 X 1 X .050	300 X 25 X 1.3	6	MKM403641
5-1/2 X 1 X .062	140 X 25 X 1.6	8	MKM400015
8 X 1 X .062	200 X 25 X 1.6		MKM400053
10-1/2 X 1 X .062	263 X 25 X 1.6		MKM399975
12 X 1 X .062	300 X 25 X 1.6		MKM403610
5-1/2 X 1 X .035	140 X 25 X .9	14	MKM400039
8 X 1 X .035	200 X 25 X .9		MKM400077
12 X 1 X .035	300 X 25 X .9		MKM403627



Reciprocating Saw Blades

Plaster, Lath & Drywall Reciprocating Saw Blades



- The Morse PLASTER reciprocating saw blade is specifically designed for cutting drywall, plasterboard, and plaster with wood or metal lath.
- With a "V" style tooth, cut edge fraying/chipping is significantly reduced, requiring less finishing.



Length x Width x Thickness		Teeth Per Inch	50/Tube Part No.
Inches	Metric (mm)		
6 X 3/4 X .050	152 X 20 X 1.3	6	MKM400343

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Bi-Metal Air Saw Blades



- These blades are specially designed for use in pneumatic saws.
- Blades have fine teeth for cutting metal. Very popular within autobody/muffler shops or other metal fabricating shops.



Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	25/Tube Part No.
Inches	Metric (mm)			
3 X 1/2 X .025	75 X 12.7 X .6	14	MKM398220	MKM398572
		18	MKM398244	MKM398589
		24	MKM398268	MKM398596
		32	MKM398282	MKM398602
3 X 1/2 X .035	100 X 12.7 X .9	14	MKM396806	MKM396882
		18	MKM396813	MKM396899
		24	MKM396820	MKM396905
		32	MKM396837	MKM396912
4 X 1/2 X .025	75 X 12.7 X .6	14	MKM397506	MKM397513
		18	MKM397520	MKM397537
		24	MKM397544	MKM397551
		32	MKM397568	MKM397575
4 X 1/2 X .035	100 X 12.7 X .9	14	MKM396844	MKM396929
		18	MKM396851	MKM396936
		24	MKM396868	MKM396943
		32	MKM396875	MKM396950



Advanced Edge Bolt Reciprocating Saw Blades



- The Morse Advanced Edge BOLT reciprocating saw blade cuts lightening fast.
- Available in 3/4" width and .035" for flexibility in tight spaces and .050" accepts heavier feed pressure.
- Variable tooth pitches give smooth cutting action.
- Reinforced, positive rake tooth design are fast cutting and impact resistant.
- Bi-metal construction for long cutting life and heat and wear resistant.
- Applications: Small solids and structural shapes.

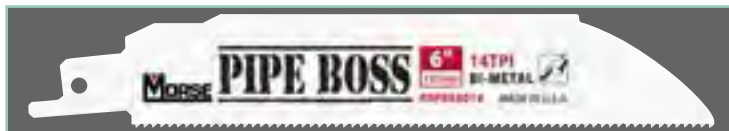


Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	50/Tube Part No.
Inches	Metric (mm)			
6 X 3/4 X .035	152 X 20 X .9	8-11	MKM393003	MKM393010
6 X 3/4 X .050	152 X 20 X 1.3		MKM393188	MKM393195
9 X 3/4 X .035	229 X 20 X .9		MKM393065	MKM393072
9 X 3/4 X .050	229 X 20 X 1.3		MKM393249	MKM393256
12 X 3/4 X .035	305 X 20 X .9		MKM393126	MKM393133
12 X 3/4 X .050	305 X 20 X 1.3		MKM393300	MKM393317
6 X 3/4 X .035	152 X 20 X .9	15-21	MKM393041	MKM393058
6 X 3/4 X .050	152 X 20 X 1.3		MKM393225	MKM393232
9 X 3/4 X .035	229 X 20 X .9		MKM393102	MKM393119
9 X 3/4 X .050	229 X 20 X 1.3		MKM393287	MKM393294
12 X 3/4 X .035	305 X 20 X .9		MKM393164	MKM393171
12 X 3/4 X .050	305 X 20 X 1.3		MKM393348	MKM393355
6 X 3/4 X .035	152 X 20 X .9	11-15	MKM393027	MKM393034
6 X 3/4 X .050	152 X 20 X 1.3		MKM393201	MKM393218
9 X 3/4 X .035	229 X 20 X .9		MKM393089	MKM393096
9 X 3/4 X .050	229 X 20 X 1.3		MKM393263	MKM393270
12 X 3/4 X .035	305 X 20 X .9		MKM393140	MKM393157
12 X 3/4 X .050	305 X 20 X 1.3		MKM393324	MKM393331

Pipe Boss Reciprocating Saw Blades



- The Morse PIPE BOSS reciprocating saw blade is specifically targeted for cutting tailpipe and muffler removal, but can also be used for other automotive modifications where metal cutting is necessary.



Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	25/Tube Part No.
Inches	Metric (mm)			
6 X 1 X .050	152 X 25 X 1.3	14	MKM395014	MKM395021
9 X 1 X .050	229 X 25 X 1.3		MKM395038	MKM395045
12 X 1 X .050	305 X 25 X 1.3		MKM395052	MKM395069



Reciprocating Saw Blades

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Advanced Edge Power Reciprocating Saw Blades



- The Morse Advanced Edge Power™ reciprocating saw blade “powers” through the toughest applications.
- This heavy duty blade is perfect for cutting any machinable metal, as well as wood, wood composite, plastic, or rubber.

Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	25/Tube Part No.
Inches	Metric (mm)			
6 X 1 X .042	152 X 25 X 1	10	MKM392006	MKM392013
9 X 1 X .042	229 X 25 X 1		MKM392068	MKM392075
12 X 1 X .042	305 X 25 X 1		MKM392129	MKM392136
6 X 1 X .042	152 X 25 X 1	14	MKM392020	MKM392037
9 X 1 X .042	229 X 25 X 1		MKM392082	MKM392099
12 X 1 X .042	305 X 25 X 1		MKM392143	MKM392150
6 X 1 X .042	152 X 25 X 1	18	MKM392044	MKM392051
9 X 1 X .042	229 X 25 X 1		MKM392105	MKM392112
12 X 1 X .042	305 X 25 X 1		MKM392167	MKM392174

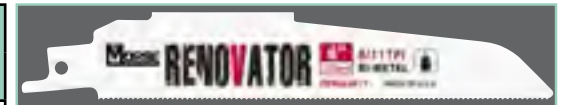


Renovator Reciprocating Saw Blades



- The Morse RENOVATOR reciprocating saw blade is the ultimate heavy duty, demolition/remodeling blade in the market.
- This blade cuts through wood and metals without leaving frayed or jagged cut edges, no need for additional finishing .

Length x Width x Thickness		Teeth Per Inch	3/Card Part No.	20/Tube Part No.
Inches	Metric (mm)			
6 X 1 X .062	152 X 25 X 1.6	8/11	MKM392518	MKM392525
9 X 1 X .062	229 X 25 X 1.6		MKM392532	MKM392549
12 X 1 X .062	305 X 25 X 1.6		MKM392556	MKM392563



Salvage Reciprocating Saw Blades



- The Morse SALVAGE reciprocating blade is targeted for any automotive reclamation/recycling, but can also be used for other automotive modifications requiring metal cutting.

Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	50/Tube Part No.
Inches	Metric (mm)			
6 X 3/4 X .035	152 X 20 X .9	14	MKM395519	MKM395526
8 X 3/4 X .035	203 X 20 X .9		MKM395557	MKM395564
12 X 3/4 X .035	305 X 20 X .9		MKM395595	MKM395601
6 X 3/4 X .035	152 X 20 X .9	18	MKM395533	MKM395540
8 X 3/4 X .035	203 X 20 X .9		MKM395571	MKM395588
12 X 3/4 X .035	305 X 20 X .9		MKM395632	MKM395649
12 X 3/4 X .035	305 X 20 X .9		10/14	MKM395618





Standard Bi-metal Portable Band Saw Blades

- With Matrix II cutting edges and straight pitch teeth, these blades cut fast and last a long time with reduced breakage.

Length x Width x Thickness		Teeth Per Inch	Set	1/Card Part No.	3/Box Part No.	25/Disp. Box Part No.	100/Bulk Part No.
Inches	Metric (mm)						
28-13/16 X 1/2 X .020	732 X 12.7 X .50	10/14	Mod. Raker	-	MKM1755	-	-
		14/18	Mod. Raker	-	MKM1748	-	-
		24	Wavy	-	MKM1762	-	MKM1793
32-7/8 X 1/2 X .020	835 X 12.7 X .50	10	Raker	-	MKM1885	-	MKM3254
		14	Wavy	-	MKM1908	-	MKM3261
		18	Wavy	-	MKM1915	-	MKM3278
		24	Wavy	-	MKM1922	-	MKM3285
		10/14	Mod. Raker	-	MKM1861	-	-
		14/18	Mod. Raker	-	MKM1892	-	-
		20/24	Mod. Raker	-	MKM1878	-	MKM3315
35-3/8 X 1/2 X .020	899 X 12.7 X .50	10	Raker	-	MKM3001	-	MKM3407
		14	Wavy	-	MKM3018	-	MKM3414
		18	Wavy	-	MKM3025	-	MKM3421
		24	Wavy	-	MKM3032	-	MKM3438
		10/14	Mod. Raker	-	MKM3049	-	-
		14/18	Mod. Raker	-	MKM3056	-	MKM3452
		20/24	Mod. Raker	-	MKM3063	-	-
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	10	Raker	MKM17	MKM1205	-	MKM2158
		14	Wavy	MKM24	MKM1212	MKM2318	MKM2165
		18	Wavy	MKM31	MKM1229	MKM2301	MKM2172
		24	Wavy	MKM48	MKM1236	-	MKM2189
		10/14	Wavy	-	-	MKM2356	-
		14/18	Wavy	-	-	MKM2295	-
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	10/14	Mod. Raker	-	MKM1953	MKM1991	-
		14/18	Mod. Raker	-	MKM1960	MKM2004	-
		14	Wavy	-	MKM1939	MKM1977	-
		18	Wavy	-	MKM1946	MKM1984	-
53-3/4 X 1/2 X .020	1365 X 12.7 X .50	10	Raker	-	MKM1274	-	MKM2196
		14	Wavy	-	MKM1281	-	MKM2202
		18	Wavy	-	MKM1298	-	MKM2219
		24	Wavy	-	MKM1304	-	MKM2226
		10/14	Raker	-	MKM1311	-	MKM2264
		14/18	Wavy	-	MKM1328	-	-
54 X 1/2 X .025	1372 X 12.7 X 6.4	10	Wavy	-	MKM1342	-	-
		14	Wavy	-	MKM1359	-	MKM1595
		18	Wavy	-	MKM1366	-	MKM1601
		24	Wavy	-	MKM1373	-	MKM1618



Band Saw Blades

MASTER COBALT® Portable Band Saw Blades



- Premium bi-metal blades feature Matrix II cutting edges and the longest life compared to any competitive blades.
- Variable pitch teeth reduce vibration.

Length x Width x Thickness		Teeth Per Inch	Set	3/Box Part No.	5/Box Part No.	100/Bulk Part No.
Inches	Metric (mm)					
44-7/8 X 1/2 X .020	1140 X 12.7 X .50	10/14	Mod Raker	MKM1175	MKM2370	MKM2233
		14/18	Wavy	MKM1182	-	MKM2240
		20/24	Wavy	MKM1199	MKM2363	MKM2257



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Carbon Portable Band Saw Blades



- These economical blades are milled from solid carbon steel.
- Suitable for use on easier-to-machine metals, including pipe, tubing and solids.

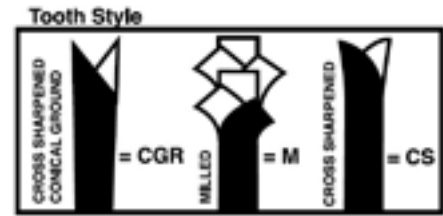
Length x Width x Thickness		Teeth Per Inch	Set	3/Box Part No.	100/Bulk Part No.
Inches	Metric (mm)				
44-7/8 X 1/2 X .025	1140 X 12.7 X .63	14	Wavy	MKM1427	MKM1670
		18	Wavy	MKM1434	MKM1687
		24	Wavy	MKM1441	MKM1694





Carbon Jig Saw Blades

- Used for cutting all types of wood and non-metallic products.
- The ground/cross sharpened teeth offer very clean and fast cuts.
- Shank styles are available in either universal or T-shank.
- High quality carbon steel blades are ideal for cutting woods, chipboards, plywoods, plastic, and similar material.



Recommended Use	Length x Width x Thickness		Teeth Per Inch	Tooth Style*	2/Card Part No.	5/Card Part No.	25/Tube Part No.
	Inches	Metric (mm)					
Universal Shank: Used on all popular jig saw machines accepting universal shank.							
Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting	4 X 5/16 X .050	100 X 8 X 1.3	6	CGR	MKM397865	MKM404853	MKM399722
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts	4 X 5/16 X .050	100 X 8 X 1.3	10	CGR	MKM397889	MKM404860	MKM399746
Reverse tooth - non-splitting cuts of laminates, and chipboard. Very clean cutting.	4 X 5/16 X .050	100 X 8 X 1.3	10	CGR	MKM397872	MKM404877	MKM399739
Scroll cutting wood, plywoods, etc. Super fine finish. Ground, taper back.	2-3/4 X 3/16 X .050	70 X 5 X 1.3	20	CGR	MKM397834	MKM404815	MKM399692
T-Shank: Used on all popular jig saw machines accepting Bosch or T-shank.							
Softwood, hardwood, plywood, chipboard. Fast coarse cutting.	4 X 5/16 X .050	100 X 8 X 1.3	6	M	MKM397964	MKM404914	MKM401401
Softwood, hardwood, plywood, chipboard, plastic up to 2" thick. Clean/fast cutting	4 X 5/16 X .060	100 X 8 X 1.5	6	CGR	MKM397926	MKM404921	MKM400329
Softwood, hardwood, plywood, chipboard, plastic up to 1" thick. Very clean cuts.	4 X 5/16 X .060	100 X 8 X 1.5	10	CGR	MKM397940	MKM404938	MKM400510
Reverse tooth _ non-splitting cuts of laminates, and chipboard. Very clean cutting.	4 X 5/16 X .060	100 X 8 X 1.5	10	CGR	MKM397933	MKM404945	MKM400503
Curved cuts/scroll in softwood and hardwood up to 1" thick. Fast cutting.	3 X 5/32 X .040	75 X 4 X 1	12	M	MKM397902	MKM404884	MKM401142
Curved cuts/scroll in softwood and hardwood up to 1" thick. Fast cutting.	3 X 3/16 X .050	75 X 5 X 1.3	20	CGR	MKM397919	MKM404891	MKM401364
Curved cuts/scroll in softwood and hardwood up to 2" thick. Fast cutting.	4 X 1/4 X .050	100 X 6 X 1.3	6	CGR	MKM397957	MKM404907	MKM400534

* Tooth Style: M (Milled) CGR (Cross Sharpened, Conical Ground)





Jig Saw Blades

Carbide Grit Jig Saw Blades

- For cutting materials too hard, or abrasive or thin for bi-metal blades.
- Tungsten carbide grains are bonded to alloy body creating smooth cutting blades that won't tear thin materials and offer a long life when cutting difficult materials.
- Used for cutting fiber glass, ceramic tile, composites, laminates, marble floor tile, etc.

Description	1/Card Part No.	25/Tube Part No.
Universal Shank		
2-3/4 Fine Grit Saw	MKM402699	MKM402859
2-3/4 Medium Grit Saw	MKM402705	MKM402866
2-3/4 Coarse Grit Saw	MKM402712	MKM402873
3-5/8 Fine Grit Saw	MKM402729	MKM402880
3-5/8 Medium Grit Saw	MKM402736	MKM402897
3-5/8 Course Grit Saw	MKM402743	MKM402903
T-Shank		
4 Fine Grit Saw	MKM402668	MKM402828
4 Medium Grit Saw	MKM402675	MKM402835
4 Course Grit Saw	MKM402682	MKM402842



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Bayonet Shank Jig Saw Blades



- For cutting ferrous and non-ferrous metals.
- Hard, durable high speed steel tooth points electron beam welded to a spring steel backer for toughness and stability during cutting.

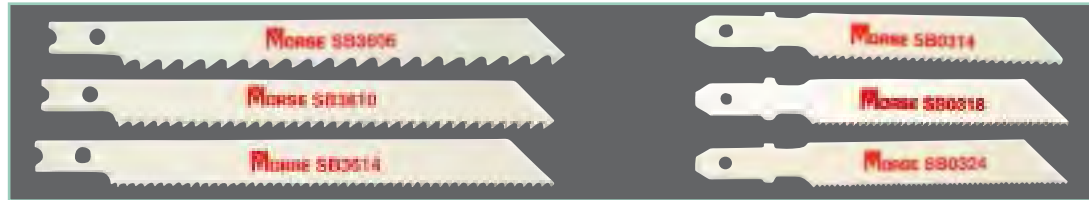


Recommended Use	Length x Width x Thickness		Teeth Per Inch	5/Card Part No.	25/Tube Part No.
	Inches	Metric (mm)			
Wood, plastic, composites.	3 X 3/8 X .035	75 X 10 X .9	6	MKM404686	MKM400619
Wood, composites, non-ferrous metals, medium-smooth finish.	3 X 3/8 X .035	75 X 10 X .9	10	MKM404693	MKM400633
Steel and non-ferrous metals 1/8" thick and above - plastic, asbestos, fiberglass, hard rubber and fiber.	3 X 3/8 X .035	75 X 10 X .9	14	MKM404709	MKM400657
Metal over 1/8" thick, plastic, fiberglass.	1-3/4 X 1/4 X .035	45 X 6 X .9	14	MKM404655	MKM400558
Heavy gauge metal - 18 gauge to 1/8".	1-3/4 X 1/4 X .035	45 X 6 X .9	18	MKM404662	MKM400572
Metal - 18 gauge and under.	1-3/4 X 1/4 X .035	45 X 6 X .9	24	MKM404679	MKM400596



Bi-Metal Jig Saw Blades

- Used for cutting all types of wood and non-metallic products.
- The ground/cross sharpened teeth offer very clean and fast cuts.
- Shank styles are available in either universal or T-shank.
- High quality carbon steel blades are ideal for cutting woods, chipboards, plywoods, plastic, and similar material.



Recommended Use	Length x Width x Thickness		Teeth Per Inch	Tooth Style*	1/Each Part No.	2/Card Part No.	25/Tube Part No.
	Inches	Metric (mm)					
Universal Shank: Used on all popular jig saw machines accepting universal shank.							
Wood, fiber board, asbestos, coarse-cut.	4 X 3/8 X .035	100 X 10 X .9	6	M	SBU3606W	MKM397636	MKM400855
Wood, plywood, hard-board.	4 X 3/8 X .035	100 X 10 X .9	10	M	SBU3610W	MKM397643	MKM400879
Non-ferrous metals, fiberglass, hard rubber, nail-embedded wood.	4 X 3/8 X .035	100 X 10 X .9	14	M	SBU3614WM	MKM397650	MKM400893
Metal 18 gauge to 1/8".	3 X 3/8 X .035	75 X 10 X .9	18	M	SBU2718M	MKM397612	MKM400794
Metal and non-ferrous metal up to 1/8".	3 X 3/8 X .035	75 X 10 X .9	24	M	SBU2724M	MKM397629	MKM400831
Scroll - non-ferrous metals, fiberglass, plywood.	3-5/8 X 3/8 X .035	92 X 5 X .9	12	M	-	MKM397667	MKM399487
Scroll - metal 18 gauge to 1/8".	2-3/4 X 3/8 X .035	70 X 5 X .9	18	M	SBU2718SP	MKM397605	MKM402972
T-Shank: Used on all popular jig saw machines accepting Bosch of T-shank.							
Wood, fiber board, asbestos, roughing work.	4 X 5/16 X .040	100 X 8 X 1	6	M	SB0406C5	MKM397704	MKM400732
General purpose - wood cutting, compositions, plastic.	4 X 5/16 X .035	100 X 8 X .9	8	M	SB0408C5	MKM397711	MKM400756
All woods, composition material, plastics, plywood.	4 X 5/16 X .035	100 X 8 X .9	10	M	SB0410C5	MKM397728	MKM400770
Steel and non-ferrous Metal 1/8" thick and up.	3 X 3/8 X .035	75 X 10 X .9	14	M	SB0314C5	MKM397674	MKM400671
Metals over 18 gauge, tubing, conduit.	3 X 3/8 X .035	75 X 10 X .9	18	M	SB0318C5	MKM397681	MKM400695
Thin metal, plastic fine cuts under 18 gauge.	3 X 3/8 X .035	75 X 10 X .9	24	M	SB0324C5	MKM397698	MKM400718
Softwood, aluminum, non - ferrous metal up to 3/8", sandwich material up to 3-3/4". Extra long blade.	5-1/4 X 5/16 X .042	132 X 8 X 1.1	12	M	SB0512LC5	-	MKM401272
			21		SB0521LC5		MKM401319

* Tooth Style: M (Milled)



Hack Saws & Blades

Triple Tooth™ Bi-Metal Hack Saw Blades

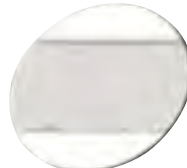
- Utilize maximum cutting efficiency with three teeth sizes.
- Lead off with 32tpi, move to 24tpi for more aggressive strokes and complete the stroke with 18 tpi, or isolate the blade to use only one section.
- Cut wood, plastic or any machinable metal, including conduit, stainless steel tubing, angle iron, copper tubing, structural materials and more.



Length x Width x Thickness		Teeth Per Inch	2/Card Part No.	10/Tube Part No.	100/Tube Part No.
Inches	Metric (mm)				
12 X 1/2 X .025	300 X 12.7 X .6	18/24/32	MKM304092	MKM302333	MKM302340



32tpi



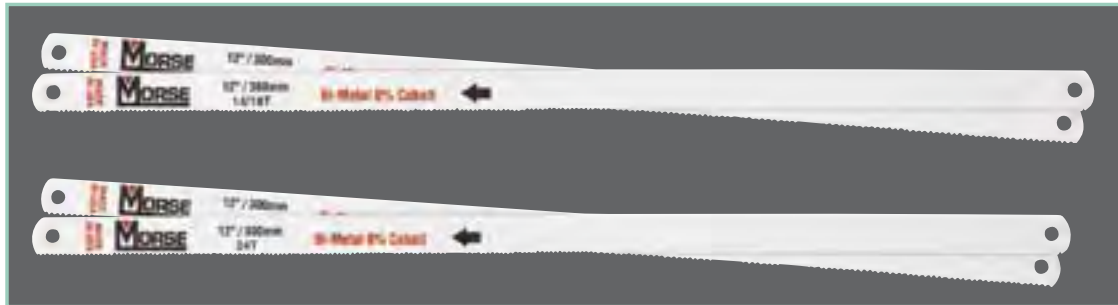
24tpi



18tpi

Bi-Metal Hack Saw Blades

- Cut wood, plastic or any machinable metal, including conduit, stainless steel tubing, angle iron, copper tubing, structural materials and more.



Length x Width x Thickness		Teeth Per Inch	1/Each Part No.	2/Card Part No.	10/Tube Part No.	100/Tube Part No.	100/Box Part No.
Inches	Metric (mm)						
10 X 1/2 X .025	250 X 12.7 X .6	18	-	MKM304009	MKM300186	-	MKM360180
10 X 1/2 X .025	250 X 12.7 X .6	24	-	MKM304016	MKM300247	-	MKM360241
10 X 1/2 X .025	250 X 12.7 X .6	32	-	MKM304023	MKM300322	-	MKM360326
12 X 1/2 X .025	300 X 12.7 X .6	14	HSB1214	MKM304030	-	MKM300100	MKM362146
12 X 1/2 X .025	300 X 12.7 X .6	18	HSB1218	MKM304047	-	MKM300117	MKM362184
12 X 1/2 X .025	300 X 12.7 X .6	24	HSB1224	MKM304054	-	MKM300124	MKM362245
12 X 1/2 X .025	300 X 12.7 X .6	32	HSB1232	MKM304108	-	MKM300131	MKM362320
12 X 1/2 X .025	300 X 12.7 X .6	14/18	HSB121418	MKM304061	-	MKM300148	MKM362153
12 X 1/2 X .025	300 X 12.7 X .6	20/24	HSB122024	MKM304078	-	MKM300155	MKM362160
12 X 1/2 X .025	300 X 12.7 X .6	26/32	HSB122632	MKM304085	-	MKM300162	MKM362177



Carbide Grit Hack Saw Blades

- Cut difficult materials including hydraulic hose and stranded cables with these specialty blades on a standard hack saw frame.
- Blades cut on both the push and pull stroke for faster cutting and longer life.
- Super resistant to heat, wear, abrasion, or "snagging".
- Cuts materials other blades can't cut.
- Carbide grit bonded to the steel blade.
- Use on glass, hardened steel, stranded cable and ceramic tile.



Diameter		1/Each Part No.	3/Tube Part No.	25/Box Part No.
Inches	Metric (mm)			
10	250	MKM332194	MKM362337	MKM362191
12	300	MKM332200	MKM362344	MKM362207

Carbide Grit Rod Saws

- The thin cutting profile makes it easy to cut shapes and patterns even in limited access areas with these specialty blades on a standard hack saw frame.
- Will not tear thin materials.
- Carbide grit is permanently bonded to a steel alloy rod. Cuts in both directions.
- Use on glass, hardened steel, stranded cable and ceramic tile.



Diameter		1/Each Part No.	3/Tube Part No.	25/Box Part No.
Inches	Metric (mm)			
10	250	MKM332217	MKM362351	MKM362214
12	300	MKM332224	MKM362368	MKM362221



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Hack Saws & Blades

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MASTER McCOY® Hack Saw Frame

Part No: HSBT12

Wide alloy steel support beam allows you to tension the blade to 30,000 PSI which delivers straighter cuts and longer blade life. Ergonomic design for reduced user fatigue. Support beam has a locking screw that allows you to store additional blades in the shaft and to use the frame as a jab saw. Multiple blade pin locations allows you to make standard and flush cut



Lightweight High Tension Hacksaw Frame

Part No: MKM330015

Made from lightweight aluminum, it cuts straight whether making standard or flush cut . Multiple Pin Locations for mounting blade at 90° or 45° for standard or flush cut applications. Locking Screw Design allows for storage of extra blades and secures blade for "jab" sawing. Tensioning Handle provides extra torque for straighter cuts and longer blade life.



Contractor High Tension Hack Saw Frame

Part No: MKM300056

Exceptionally light for handling ease. Aluminum frame offers extra blade storage space.



Contractor HD Hack Saw Frame

Part No: MKM300070

Excellent choice for tight spaces. Rubber handle for strong, comfortable grip.



Contractor Utility Hack Saw frame

Part No: MKM300063

Precise blade tension with wing nut blade attachment. Adjusts for either 10" or 12" blade sizes.



Mini Hack Saw Frame

Part No: MKM330077

This lightweight plastic frame is ideal for cutting in small, hard to reach areas. It is durable, comfortable to use and comes complete with a 10" bi-metal blade.





PVC/ABS Saw & Replacement Blades

- A handy saw for plumbers, electricians and DIY. These saws are light and comfortable with a replaceable spring-tempered steel blade.
- Available with 12" or 18" blades.
- Tooth Hardness 65Rc. Precision-milled Teeth.
- Cuts on the Pull Stroke.
- Comfort-grip Cast Aluminum Handle.
- Single Screw Attachment.

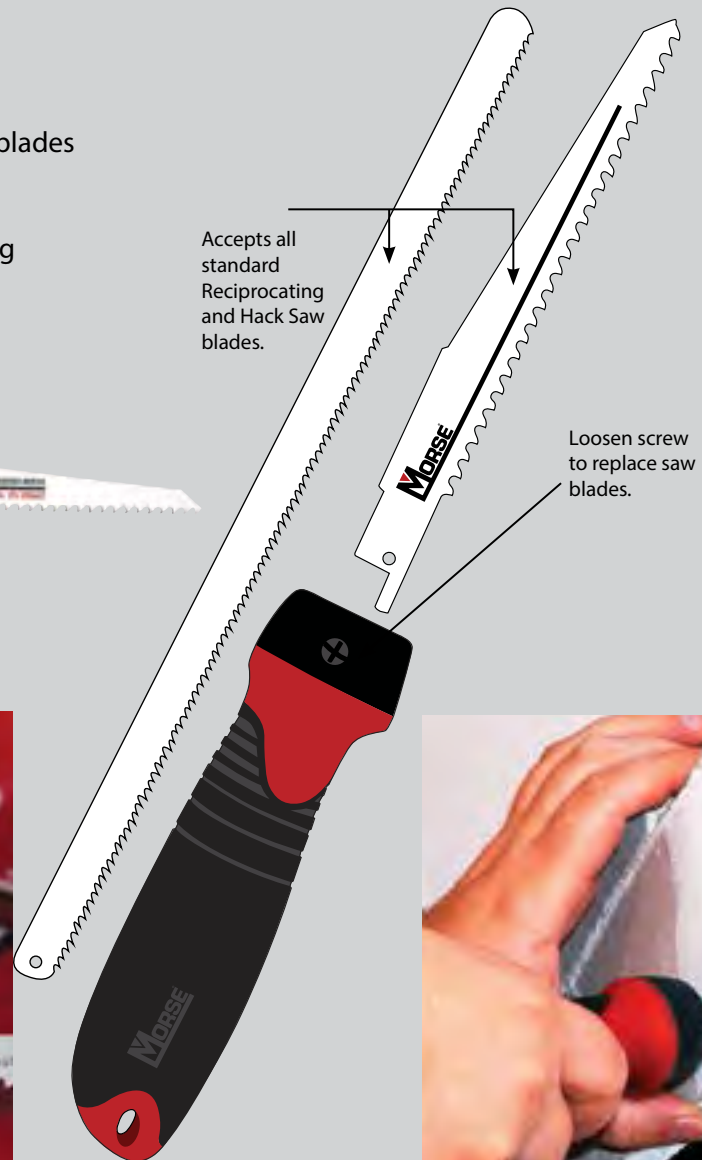
Blade Length	Complete Saw Part No.	Replacement Blade Part No.
12 Inch	MKM330107	MKM330121
18 Inch	MKM330114	MKM330138



Jab Saw

Part No: HTL0017

- Heavy duty, ergonomic handle
- Use with either reciprocating or hack saw blades
- Quick & easy to change blades for various applications
- Comes with one 6" long, 6 TPI reciprocating blade, part number JRB65006SP





Hole Saws

MASTER COBALT® Bi-metal Hole Saws



- This premium line of professional quality hole saws features an M3 high-speed steel cutting edge, electron beam welded to a tough steel backer.
- Caps stand up to abuse and punishment, yet are lighter and easier to use than those of competitors.
- Positive rake tooth design provides better chip clearance as teeth cut into wood, plastic or any machinable metal. The 1-1/2" cutting depth cuts easily through 2x4's



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Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
9/16	14	SH9	SHA24, SHA24K, SHA44, SHA44K, MKM140041
5/8	–	SH10	SHA24, SHA24K, SHA44, SHA44K, MKM140041
–	16	SH105	SHA24, SHA24K, SHA44, SHA44K, MKM140041
11/16	17	SH11	SHA24, SHA24K, SHA44, SHA44K, MKM140041
3/4	19	SH12	SHA24, SHA24K, SHA44, SHA44K, MKM140041
–	20	SH125	SHA24, SHA24K, SHA44, SHA44K, MKM140041
13/16	21	SH13	SHA24, SHA24K, SHA44, SHA44K, MKM140041
7/8	22	SH14	SHA24, SHA24K, SHA44, SHA44K, MKM140041
15/16	24	SH15	SHA24, SHA24K, SHA44, SHA44K, MKM140041
–	25	SH155	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1	–	SH16	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-1/16	–	SH17	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-1/8	29	SH18	SHA24, SHA24K, SHA44, SHA44K, MKM140041
–	30	SH185	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-3/16	–	SH19	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-1/4	–	SH20	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-1/4	–	SH204	SHA24, SHA24K, SHA44, SHA44K, MKM140041
	32	SH205	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-5/16	33	SH21	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-3/8	–	SH22	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-3/8	–	SH224	SHA24, SHA24K, SHA44, SHA44K, MKM140041
–	35	SH225	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-7/16	37	SH23	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-1/2	38	SH24	SHA44K, SHA35PS, SHA45P, MKM140140, MKM140201, MKM1402218
1-1/2	38	SH244	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-9/16	–	SH25	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
–	40	SH255	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-5/8	41	SH26	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-11/16	43	SH27	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-3/4	44	SH28	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
–	45	SH285	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-13/16	46	SH29	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218



Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
1/7/8	48	SH30	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
	50	SH315	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2	51	SH32	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/16	52	SH33	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/8	54	SH34	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
–	55	SH345	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/4	57	SH36	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-5/16	–	SH37	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-3/8	60	SH38	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
–	62	SH385	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/2	64	SH40	SHA44K, SHA45P, MKM140201, MKM1402218
2-9/16	65	SH41	SHA44K, SHA45P, MKM140201, MKM1402218
2-5/8	67	SH42	SHA44K, SHA45P, MKM140201, MKM1402218
–	68	SH425	SHA44K, SHA45P, MKM140201, MKM1402218
–	68.5	SH435	SHA44K, SHA45P, MKM140201, MKM1402218
2-3/4	70	SH44	SHA44K, SHA45P, MKM140201, MKM1402218
2-7/8	73	SH46	SHA44K, SHA45P, MKM140201, MKM1402218
–	75	SH475	SHA44K, SHA45P, MKM140201, MKM1402218
3	76	SH48	SHA44K, SHA45P, MKM140201, MKM1402218
3-1/8	79	SH50	SHA44K, SHA45P, MKM140201, MKM1402218
3-1/4	83	SH52	SHA44K, SHA45P, MKM140201, MKM1402218
3-3/8	86	SH54	SHA44K, SHA45P, MKM140201, MKM1402218
3-1/2	89	SH56	SHA44K, SHA45P, MKM140201, MKM1402218
3-5/8	92	SH58	SHA44K, SHA45P, MKM140201, MKM1402218
3-3/4	95	SH60	SHA44K, SHA45P, MKM140201, MKM1402218
3-7/8	98	SH62	SHA44K, SHA45P, MKM140201, MKM1402218
–	100	SH63	SHA44K, SHA45P, MKM140201, MKM1402218
4	102	SH64	SHA44K, SHA45P, MKM140201, MKM1402218
4-1/8	105	SH66	SHA44K, SHA45P, MKM140201, MKM1402218
4-1/4	108	SH68	SHA44K, SHA45P, MKM140201, MKM1402218
4-3/8	111	SH70	SHA44K, SHA45P, MKM140201, MKM1402218
4-1/2	114	SH72	SHA44K, SHA45P, MKM140201, MKM1402218
4-3/4	121	SH76	SHA44K, SHA45P, MKM140201, MKM1402218
5	127	SH80	SHA44K, SHA45P, MKM140201, MKM1402218
5-1/4	133	SH84	SHA44K, SHA45P, MKM140201, MKM1402218
5-1/2	140	SH88	SHA44K, SHA45P, MKM140201, MKM1402218
5-3/4	146	SH92	SHA44K, SHA45P, MKM140201, MKM1402218
6	152	SH96	SHA44K, SHA45P, MKM140201, MKM1402218
6-3/8	162	SH104	SHA44K, SHA45P, MKM140201, MKM1402218

Master Pack 20 per box hole saws are also available in the following sizes: 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-1/2, 1-5/8, 1-7/8, and 2 inch. Ask your Territory Manager for more information

* Metric sizes shown in red are exact millimeter sizes. Metric sizes in black are approximate metric equivalents of exact inch sizes.



Hole Saws

MADE IN USA

MASTER COBALT® Deep Cutting Bi-metal Hole Saws

- Extra deep 1-7/8" (48mm) cutting depth for specialty cuts made by locksmiths, remodelers, and general contractors alike.
- Easily cuts through 2 x 4"s, joists, and most doors in one pass with extra clearance.
- Variable pitch smoothes cutting action with minimum vibration.
- For use on Wood, plastic, machinable metals stainless steel alloys, nail-embedded wood.



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Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
3/4	19	MKM150002	SHA24, SHA24K, SHA44, SHA44K, MKM140041
7/8	22	MKM150019	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1	25	MKM150026	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-1/8	2	MKM150033	SHA24, SHA24K, SHA44, SHA44K, MKM140041
1-3/16	30	MKM150248	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-1/4	32	MKM150040	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-3/8	35	MKM150057	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-1/2	38	MKM150064	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-3/4	44	MKM150071	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
1-7/8	48	MKM150088	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2	51	MKM150095	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/8	54	MKM150101	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/4	57	MKM150118	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-3/8	60	MKM150170	SHA35PS, SHA44K, SHA45P, MKM140140, MKM140201, MKM1402218
2-1/2	64	MKM150125	SHA44K, SHA45P, MKM140201, MKM1402218
2-3/4	70	MKM150354	SHA44K, SHA45P, MKM140201, MKM1402218
3	76	MKM150132	SHA44K, SHA45P, MKM140201, MKM1402218
3-1/4	83	MKM150385	SHA44K, SHA45P, MKM140201, MKM1402218
3-3/8	86	MKM150149	SHA44K, SHA45P, MKM140201, MKM1402218
3-1/2	89	MKM150187	SHA44K, SHA45P, MKM140201, MKM1402218
3-3/4	95	MKM150408	SHA44K, SHA45P, MKM140201, MKM1402218
3-7/8	98	MKM150194	SHA44K, SHA45P, MKM140201, MKM1402218
4	102	MKM150200	SHA44K, SHA45P, MKM140201, MKM1402218
4-1/4	108	MKM150156	SHA44K, SHA45P, MKM140201, MKM1402218
4-1/2	114	MKM150439	SHA44K, SHA45P, MKM140201, MKM1402218
4-3/4	121	MKM150446	SHA44K, SHA45P, MKM140201, MKM1402218
5	127	MKM150453	SHA44K, SHA45P, MKM140201, MKM1402218
5-1/2	140	MKM150460	SHA44K, SHA45P, MKM140201, MKM1402218
6	152	MKM150484	SHA44K, SHA45P, MKM140201, MKM1402218
6-5/8	168	MKM150163	SHA44K, SHA45P, MKM140201, MKM1402218



Carbide Tipped Hole Saws

- Tungsten carbide tooth tips offer the highest wear resistance possible for fast holes and longer life cutting abrasive materials.
- Cutting depth is 1-1/2".
- Special tooth design for very fast hole saw cutting.
- Ground and set teeth help to cut materials that bi-metal saws will not cut. 3 teeth per inch creates a wider gullet for better chip clearance and faster cutting.
- For use on Acoustic tile, countertops, drywall, fiber board, fiber glass, plaster, plastic, nail-free wood.

Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
9/16	14	MKM160049	SHA24K, SHA44
–	16	MKM160100	SHA24K, SHA44
11/16	17	MKM160117	SHA24K, SHA44
3/4	19	MKM160124	SHA24K, MKM140898*, SHA44
25/32	–	MKM160063	SHA24K, MKM140898*, SHA44
13/16	21	MKM160131	SHA24K, MKM140898*, SHA44
7/8	22	MKM160148	SHA24K, MKM140898*, SHA44
15/16	24	MKM160155	SHA24K, MKM140898*, SHA44
1	25	MKM160162	SHA24K, MKM140898*, SHA44
1-1/16	27	MKM160179	SHA24K, MKM140898*, SHA44
1-1/8	29	MKM160186	SHA24K, MKM140898*, SHA44
1-3/16	30	MKM160193	SHA24K, MKM140898*, SHA44
1-1/4	32	MKM160209	MKM140904*, MKM140195*
1-5/16	33	MKM160216	MKM140904*, MKM140195*
1-3/8	35	MKM160223	MKM140904*, MKM140195*
1-7/16	37	MKM160230	MKM140904*, MKM140195*
1-1/2	38	MKM160247	MKM140904*, MKM140195*
1-9/16	40	MKM160254	MKM140904*, MKM140195*
1-5/8	41	MKM160261	MKM140904*, MKM140195*
1-11/16	43	MKM160278	MKM140904*, MKM140195*
1-3/4	44	MKM160285	MKM140904*, MKM140195*
1-13/16	46	MKM160292	MKM140904*, MKM140195*
1 7/8	48	MKM160308	MKM140904*, MKM140195*
2	51	MKM160322	MKM140904*, MKM140195*
2-1/16	52	MKM160339	MKM140904*, MKM140195*
2-1/8	54	MKM160346	MKM140904*, MKM140195*
2-1/4	57	MKM160360	MKM140904*, MKM140195*
2-5/16	69	MKM160377	MKM140904*, MKM140195*
2-3/8	60	MKM160384	MKM140904*, MKM140195*
2-1/2	64	MKM160407	MKM140904*, MKM140195*
2-9/16	65	MKM160414	MKM140904*, MKM140195*
2-5/8	67	MKM160421	MKM140904*, MKM140195*
2-11/16	68	MKM160438	MKM140904*, MKM140195*



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* Comes with carbide tipped pilot drill



Hole Saws

Carbide Tipped Hole Saws continued

Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
2-3/4	70	MKM160445	MKM140904*, MKM140195*
2-7/8	73	MKM160469	MKM140904*, MKM140195*
3	76	MKM160483	MKM140904*, MKM140195*
3-1/8	79	MKM160506	MKM140904*, MKM140195*
3-1/4	83	MKM160520	MKM140904*, MKM140195*
3-3/8	86	MKM160544	MKM140904*, MKM140195*
3-1/2	89	MKM160568	MKM140904*, MKM140195*
3-5/8	92	MKM160582	MKM140904*, MKM140195*
3-3/4	95	MKM160605	MKM140904*, MKM140195*
3-7/8	98	MKM160629	MKM140904*, MKM140195*
4	102	MKM160643	MKM140904*, MKM140195*
4-1/8	105	MKM160667	MKM140904*, MKM140195*
4-1/4	108	MKM160681	MKM140904*, MKM140195*
4-3/8	111	MKM160704	MKM140904*, MKM140195*
4-1/2	114	MKM160728	MKM140904*, MKM140195*
4-3/4	121	MKM160766	MKM140904*, MKM140195*
5	127	MKM160803	MKM140904*, MKM140195*
5-1/4	133	MKM160841	MKM140904*, MKM140195*
5-1/2	140	MKM160889	MKM140904*, MKM140195*
5-3/4	146	MKM160926	MKM140904*, MKM140195*
6	152	MKM160964	MKM140904*, MKM140195*

* Comes with carbide tipped pilot drill



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Tungsten Carbide Grit Hole Saws

- Long-lasting choice for very hard abrasive materials.
- These hole saws create clean holes in materials too hard or abrasive for standard bi-metal saws, or so thin they would strip bi-metal or chip carbide teeth.
- Cutting depth of 1-1/2".
- Super resistance to heat, wear and abrasion with shock resistant back.
- Tungsten carbide grains are bonded to alloy backs with a gulleted snag resistant edge.
- CT pilot drill recommended for masonry type materials.
- For use on Acoustic tile, brick, cast iron, cement board, ceramics, cinderblock, composites, computer flooring, fiber glass, hardened steel, particleboard, asbestos board, and Formica.

Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
3/4	19	MKM161084	SHA24K, MKM140898*, SHA44
13/16	21	MKM161091	SHA24K, MKM140898*, SHA44
7/8	22	MKM161107	SHA24K, MKM140898*, SHA44
15/16	24	MKM161114	SHA24K, MKM140898*, SHA44
1	25	MKM161121	SHA24K, MKM140898*, SHA44
1-1/16	27	MKM161138	SHA24K, MKM140898*, SHA44
1-1/8	29	MKM161145	SHA24K, MKM140898*, SHA44
1-3/16	30	MKM161152	SHA24K, MKM140898*, SHA44
1-1/4	32	MKM161008	MKM140904*, MKM140195*
1-5/16	33	MKM161169	MKM140904*, MKM140195*
1-3/8	35	MKM161015	MKM140904*, MKM140195*
1-7/16	37	MKM161176	MKM140904*, MKM140195*
1-1/2	38	MKM161183	MKM140904*, MKM140195*
1-9/16	40	MKM161190	MKM140904*, MKM140195*
1-5/8	41	MKM161206	MKM140904*, MKM140195*
1-11/16	43	MKM161213	MKM140904*, MKM140195*
1-3/4	44	MKM161022	MKM140904*, MKM140195*
1-13/16	46	MKM161220	MKM140904*, MKM140195*
17/8	48	MKM161237	MKM140904*, MKM140195*
2	51	MKM161244	MKM140904*, MKM140195*
2-1/16	52	MKM161251	MKM140904*, MKM140195*
2-1/8	54	MKM161268	MKM140904*, MKM140195*
2-1/4	57	MKM161275	MKM140904*, MKM140195*
2-5/16	69	MKM161282	MKM140904*, MKM140195*
2-3/8	60	MKM161299	MKM140904*, MKM140195*
2-1/2	64	MKM161305	MKM140904*, MKM140195*
2-9/16	65	MKM161312	MKM140904*, MKM140195*
2-5/8	67	MKM161329	MKM140904*, MKM140195*
2-3/4	70	MKM161336	MKM140904*, MKM140195*
2-7/8	73	MKM161343	MKM140904*, MKM140195*
3	76	MKM161350	MKM140904*, MKM140195*



* Comes with carbide tipped pilot drill



Hole Saws

Tungsten Carbide Grit Hole Saws continued

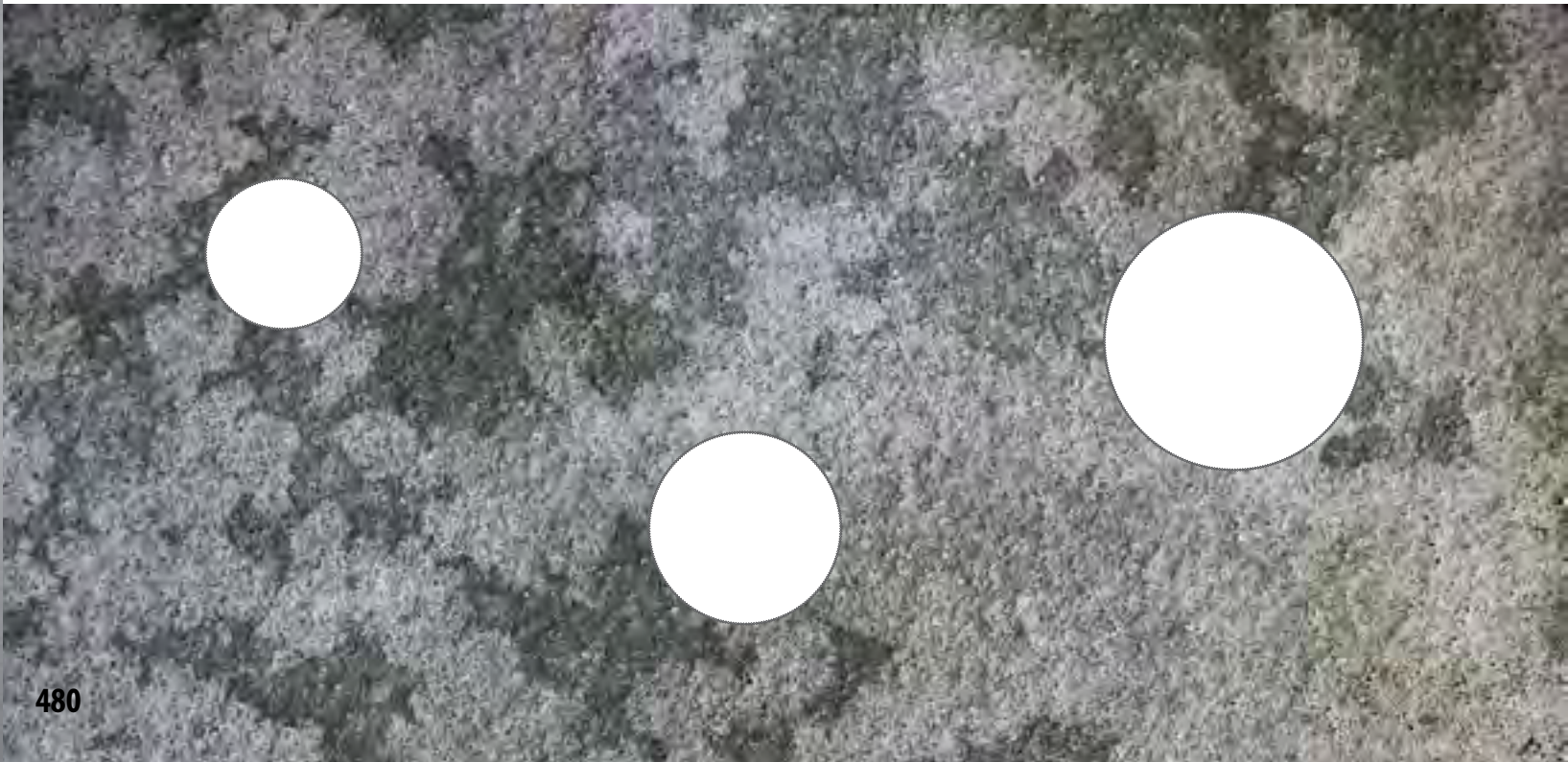


Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
3-1/8	79	MKM161367	MKM140904*, MKM140195*
3-1/4	83	MKM161374	MKM140904*, MKM140195*
3-3/8	86	MKM161381	MKM140904*, MKM140195*
3-1/2	89	MKM161398	MKM140904*, MKM140195*
3-5/8	92	MKM161077	MKM140904*, MKM140195*
3-3/4	95	MKM161404	MKM140904*, MKM140195*
3-7/8	98	MKM161411	MKM140904*, MKM140195*
4	102	MKM161428	MKM140904*, MKM140195*
4-1/8	105	MKM161435	MKM140904*, MKM140195*
4-1/4	108	MKM161442	MKM140904*, MKM140195*
4-3/8	111	MKM161039	MKM140904*, MKM140195*
4-1/2	114	MKM161459	MKM140904*, MKM140195*
4-3/4	121	MKM161466	MKM140904*, MKM140195*
5	127	MKM161473	MKM140904*, MKM140195*
5-1/2	140	MKM161480	MKM140904*, MKM140195*
5-3/4	146	MKM161497	MKM140904*, MKM140195*
6	152	MKM161503	MKM140904*, MKM140195*
6-3/8	162	MKM161046	MKM140904*, MKM140195*
6-5/8	168	MKM161053	MKM140904*, MKM140195*
6-7/8	174	MKM161060	MKM140904*, MKM140195*



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* Comes with carbide tipped pilot drill





Diamond Grit Hole Saws

- Morse Diamond Grit products provide longer life and faster cutting in these materials than the conventional carbide grit, carbide tipped hole saws and reciprocating saw blades.
- For use on Granite (stone), Ceramic Tile, Glass block, Architectural stone, Brick, Cast Iron, and Laminate Flooring.

Diamond Grit Hole Saws with Quick Change Arbor		
Diameter		Hole Saw Part No.
Inches	Metric (mm)	
3/16	4.8	MKM129152
1/4	6	MKM129169
5/16	8	MKM129176
3/8	9.5	MKM129183
1/2	12.7	MKM129190
5/8	16	MKM129206
3/4	19	MKM129213
1	25	MKM129220
1-3/8	35	MKM129237



Diamond Grit Hole Saws & Quick Start™ Auto Pilot (Arbor Required)			
Diameter		Hole Saw Part No.	Arbor
Inches	Metric (mm)		
7/8	22	MKM129008	SHA24
1-1/8	29	MKM129015	SHA24
1-1/4	32	MKM129022	SHA35PS
2	51	MKM129039	SHA35PS
2-1/2	64	MKM129046	SHA35PS
Auto pilot		MKM129503	SHA35PS



AUTO PILOT

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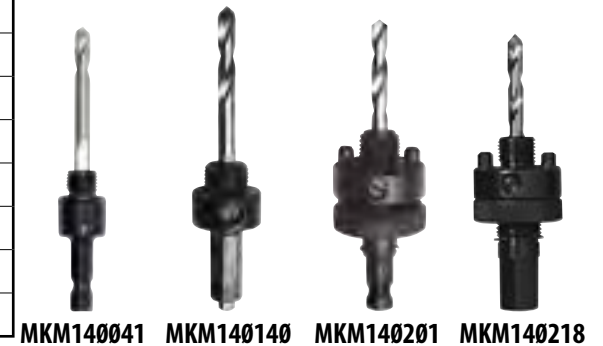
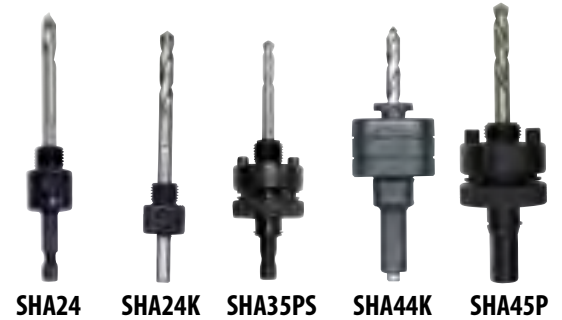
Hole Saws



Arbors for Hole Saws

- Durable, heavy-duty, carbon steel arbors come complete with pilot drills.
- Adapt Morse hole saws to any power drill used by professionals.

Chuck Size	Hole Saw Sizes	Hole Saw Thread	Hole Saw Shank	1/Pkg. Part No.
1/4"	9/16" – 1-3/16"	1/4"-20	1/4" hex	SHA24
1/4"	9/16" – 1-3/16"	1/2"-20	1/4" round	SHA24K
3/8"	9/16" – 1-3/16"	1/2"-20	3/8" hex	MKM140041
3/8"	3/4" – 1-3/16"	1/2"-20	3/8" hex	MKM140898
3/8"	1-1/4" – 6"	5/8"-18	3/8" hex	SHA35PS
3/8"	1-1/4" – 6"	5/8"-18	3/8" hex	MKM140195
1/2"	9/16" – 1-3/16"	1/2"-20	7/16" hex	SHA44
1/2"	1-1/4" – 2-3/8"	1/2"-20	7/16" hex	MKM140140
1/2"	9/16" – 6"	1/2"-20	7/16" hex	SHA44K
1/2"	1-1/4" – 6"	5/8"-18	7/16" hex	SHA45P
1/2"	1-1/4" – 6"	5/8"-18	7/16" hex	MKM140201
1/2"	1-1/4" – 6"	5/8"-18	7/16" hex	MKM140904
3/4"	1-1/4" – 6"	5/8"-18	5/8" hex	MKM140218



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SDS Arbors for Hole Saws

- SDS arbors are used in tools having SDS chucks, to drive hole saws in rotary hammers or hammer drills having a straight rotary option.

Hole Saw Sizes	Hole Saw Thread	Hole Saw Shank	1/Pkg. Part No.
9/16- 1-3/16	1/2"-20	SDS	MKM140911
1-1/4 – 6	5/8"-18	SDS	MKM140928

Arbor Extensions

Length	Hex	Part No.
12"	3/8"	MKM140409
5.5"	7/16"	MKM123990
12"	7/16"	SHE12



Hole Saw Arbor Replacement Bits

Arbor Part No.	Description	Replacement Pilot Drill Bit Size	1/Pkg. Part No.	5/Pkg. Part No.	10/Pkg. Part No.	25/Pkg. Part No.	100/Pkg. Part No.
SHA24, 35PS, MKM140041, MKM140201, MKM140911, MKM140928	Straight Shank	1/4" X 3-1/16	SHPD1	-	MKM140683	MKM140720	MKM140690
SHA24K, SHA44, SHA44K, SHA45P, MKM140140, MKM140218	Ground 3 Sides	1/4" X 4-5/16	SHPD2	-	MKM140478	MKM140522	MKM140492
SHA24K, SHA44, SHA44K, SHA45P, MKM140140, MKM140218	3 Notches	1/4" x 4	MKM140782	-	MKM140416	MKM1405454	MKM140423
MKM140898, MKM140195	Carbide Tipped	1/4" X 2-7/8	MKM140874	MKM140881	-	-	-
MKM140904	Carbide Tipped	1/4" X 4	MKM140850	MKM140867	-	-	-
Carbide Alternative For Above Arbors	Carbide Tipped	1/4" X 2-7/8	MKM120012	-	-	-	-
Carbide Alternative For Above Arbors	Carbide Tipped	1/4" x 4	MKM120029	-	-	-	-



Diameter		1/Each Part No.
Inches	Metric (mm)*	
9/16	14	MKM110099
5/8	16	MKM110105
	16	MKM115100
11/16	17	MKM110112
3/4	19	MKM110129
	20	MKM115124
13/16	21	MKM110136
7/8	22	MKM110143
15/16	24	MKM110150
	25	MKM115155
1	25	MKM110167
1-1/16	27	MKM110174
1-1/8	29	MKM110181
	30	MKM115186
1-3/16	30	MKM110198
1-1/4	32	MKM110204
	32	MKM115209
1-5/16	33	MKM110211
1-3/8	35	MKM110228
	35	MKM115223
1-7/16	37	MKM110235
1-1/2	38	MKM110242
1-9/16	40	MKM110259
	40	MKM115254
1-5/8	41	MKM110266
1-11/16	43	MKM110273
1-3/4	44	MKM110280
	45	MKM115285
1-13/16	46	MKM110297
1-7/8	48	MKM110303
	50	MKM115315
2	51	MKM110327
2-1/16	52	MKM110334
2-1/8	54	MKM110341
	55	MKM115346
2-1/4	57	MKM110365
2-5/16	59	MKM110372
2-3/8	60	MKM110389
2-1/2	64	MKM110402

The Real McCoy® Bi-metal Hole Saws

- A convenient multi-purpose hole saw for general contractor cutting applications.
- Attached 7/16" pass-through shank arbor is a time saver.
- Cutting depth is 1-1/2" (38mm).
- Requires 4-5/16" (110mm) pilot drill.
- Positive rake teeth for more aggressive cutting.
- Deeper gullets for better chip clearance.
- Better tooth match for smoother cutting.
- Variable pitch teeth reduces friction and heat.
- No separate arbor required.
- 1-1/2" cutting depth will cut through a 2 x 4.
- For use on wood, plastic, machinable metals, stainless steel alloys, nail-embedded wood.

Diameter		1/Each Part No.
Inches	Metric (mm)	
2-9/16	65	MKM110419
2-5/8	67	MKM110426
	68	MKM115421
	68.5	MKM115438
2-3/4	70	MKM110440
2-7/8	73	MKM110464
	75	MKM115476
3	76	MKM110488
3-1/8	79	MKM110501
3-1/4	83	MKM110525
3-3/8	86	MKM110549
3-1/2	89	MKM110563
3-5/8	92	MKM110587
3-3/4	95	MKM110600
3-7/8	98	MKM110624
	100	MKM110631
4	102	MKM110648
4-1/8	105	MKM110662
4-1/4	108	MKM110686
4-3/8	111	MKM110709
4-1/2	114	MKM110723
4-3/4	121	MKM110761
5	127	MKM110808
5-1/2	140	MKM110884
5-3/4	146	MKM110921
6	152	MKM110969

* Metric sizes shown in red are exact millimeter sizes. Metric sizes in black are approximate metric equivalents of exact inch sizes.





Hole Saws

MADE IN USA

The Real McCoy® Deep Cutting Hole Saws

- The 1-7/8" cutting depth provides extra depth for specialty cuts made by locksmiths, remodelers and general contractors alike.
- Easily cuts through 2 x 4's, joists and most doors in one pass with extra clearance.
- Requires 4-5/16" (110mm) pilot drill.
- For use on wood, plastic, machinable metals, stainless steel alloys, nail-embedded wood.

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Diameter		1/Each Part No.
Inches	Metric (mm)*	
3/4	19	MKM123006
13/16	21	MKM123013
7/8	22	MKM123020
15/16	24	MKM123037
1	25	MKM123044
1-1/16	27	MKM123051
1-1/8	29	MKM123068
1-3/16	30	MKM123075
1-1/4	32	MKM123082
1-5/16	33	MKM123099
1-3/8	35	MKM123105
1-7/16	37	MKM123112
1-1/2	38	MKM123129
1-9/16	40	MKM123136
1-5/8	41	MKM123143
1-11/16	43	MKM123150
1-3/4	44	MKM123167
1-13/16	46	MKM123174
1-7/8	48	MKM123181
2	51	MKM123198
2-1/16	52	MKM123204
2-1/8	54	MKM123211
2-1/4	57	MKM123228
2-5/16	59	MKM123235
2-3/8	60	MKM123242
2-1/2	64	MKM123259
2-9/16	65	MKM123266
2-5/8	67	MKM123273
2-3/4	70	MKM123280
2-7/8	73	MKM123297
3	76	MKM123303



Diameter		1/Each Part No.
Inches	Metric (mm)	
3-1/8	79	MKM123310
3-1/4	83	MKM123327
3-3/8	86	MKM123334
3-1/2	89	MKM123341
3-5/8	92	MKM123358
3-3/4	95	MKM123365
3-7/8	98	MKM123372
4	102	MKM123389
4-1/8	105	MKM123396
4-1/4	108	MKM123402
4-3/8	111	MKM123419
4-1/2	114	MKM123426
4-3/4	121	MKM123433
5	127	MKM123440
5-1/2	140	MKM123457
5-3/4	146	MKM123464
6	152	MKM123471



Advantage Edge Hole Saws



- Durability, quality and reliability combine to provide the hardest working hole saw in the industry. PTP technology increases material removal and provides more control of the cutting process.
- More teeth and deeper gullet in the cutting action increases material removal.
- New tooth form maximizes penetration with a positive rake face. Engineered with the strongest tooth profile available in the marketplace.
- Increased control in higher torque applications and long wear resistance.
- Impact resistant while maintaining cutting penetration.
- Used for steel plate, pipe, angle iron, wood, composite materials, plastic, sprinkler pipe, and electrical box.

Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
9/16	14	MKM168304	MKM168212, MKM168229
5/8	16	MKM168311	MKM168212, MKM168229
	16	MKM168328	MKM168212, MKM168229
11/16	17	MKM168335	MKM168212, MKM168229
3/4	19	MKM168342	MKM168212, MKM168229
	20	MKM186359	MKM168212, MKM168229
13/16	21	MKM168366	MKM168212, MKM168229
7/8	22	MKM168373	MKM168212, MKM168229
15/16	24	MKM168380	MKM168212, MKM168229
	25	MKM168397	MKM168212, MKM168229
1	25	MKM168403	MKM168212, MKM168229
1-1/16	27	MKM168410	MKM168212, MKM168229
1-1/8	29	MKM168427	MKM168212, MKM168229
	30	MKM168434	MKM168212, MKM168229
1-3/16	30	MKM168441	MKM168212, MKM168229
	32	MKM168465	MKM168212, MKM168229
	35	MKM168502	MKM168212, MKM168229
1-1/2	38	MKM168540	MKM168212, MKM168229
1-1/4	32	MKM168458	MKM168205, MKM168236
	32	MKM168472	MKM168205, MKM168236
1-5/16	33	MKM168489	MKM168205, MKM168236
1-3/8	35	MKM168496	MKM168205, MKM168236
	35	MKM168519	MKM168205, MKM168236
1-7/16	37	MKM168526	MKM168205, MKM168236
1-1/2	38	MKM168533	MKM168205, MKM168236
1-9/16	40	MKM168557	MKM168205, MKM168236
	40	MKM168564	MKM168205, MKM168236
1-5/8	41	MKM168571	MKM168205, MKM168236
1-11/16	43	MKM168588	MKM168205, MKM168236
1-3/4	44	MKM168595	MKM168205, MKM168236
	45	MKM168601	MKM168205, MKM168236



* Metric sizes shown in red are exact millimeter sizes. Metric sizes in black are approximate metric equivalents of exact inch sizes.



Hole Saws



Advantage Edge Hole Saws continued

Diameter		Hole Saw Part No.	Use With These Arbors
Inches	Metric (mm)		
1-13/16	46	MKM168618	MKM168205, MKM168236
1-7/8	48	MKM168625	MKM168205, MKM168236
	50	MKM168632	MKM168205, MKM168236
2	51	MKM168649	MKM168205, MKM168236
2-1/16	52	MKM168656	MKM168205, MKM168236
2-1/8	54	MKM168663	MKM168205, MKM168236
	55	MKM168670	MKM168205, MKM168236
2-1/4	57	MKM168687	MKM168205, MKM168236
2-5/16	59	MKM168694	MKM168205, MKM168236
2-3/8	60	MKM168700	MKM168205, MKM168236
	62	MKM168717	MKM168205, MKM168236
2-1/2	64	MKM168724	MKM168205, MKM168236
2-9/16	65	MKM168731	MKM168205, MKM168236
2-5/8	67	MKM168748	MKM168205, MKM168236
	68	MKM168755	MKM168205, MKM168236
	68.5	MKM168762	MKM168205, MKM168236
2-3/4	70	MKM168779	MKM168205, MKM168236
2-7/8	73	MKM168786	MKM168205, MKM168236
	75	MKM168793	MKM168205, MKM168236
3	76	MKM168809	MKM168205, MKM168236
3-1/8	79	MKM168816	MKM168205, MKM168236
3-1/4	83	MKM168823	MKM168205, MKM168236
3-3/8	86	MKM168830	MKM168205, MKM168236
3-1/2	89	MKM168847	MKM168205, MKM168236
3-5/8	92	MKM168854	MKM168205, MKM168236
3-3/4	95	MKM168861	MKM168205, MKM168236
3-7/8	98	MKM168878	MKM168205, MKM168236
	100	MKM168885	MKM168205, MKM168236
4	102	MKM168892	MKM168205, MKM168236
4-1/8	105	MKM168908	MKM168205, MKM168236
4-1/4	108	MKM168915	MKM168205, MKM168236
4-3/8	111	MKM168922	MKM168205, MKM168236
4-1/2	114	MKM168939	MKM168205, MKM168236
4-3/4	121	MKM168946	MKM168205, MKM168236
5	127	MKM168953	MKM168205, MKM168236
5-1/2	140	MKM168977	MKM168205, MKM168236
5-3/4	146	MKM168984	MKM168205, MKM168236
6	152	MKM168991	MKM168205, MKM168236

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Advanced Edge Hole Saw Arbors

Hole Saw Sizes	Chuck Size	Hole Saw Shank	1/Pkg. Part No.
Up to 1-1/4	1/4	1/4	MKM168212
Up to 1-1/4	3/8	3/8	MKM168229
Over 1-1/4	3/8	3/8	MKM168236
Over 1-1/4	1/2	1/2	MKM168205



MKM168212



MKM168229



MKM168236



MKM168205

Replacement Pilot Drill Bit

Part No: MKM168106



CT Hole Cutters

- With a specially ground carbide tipped cutting edge and ground gullets, the M. K. Morse CT Hole Cutter provides accurate, burr-free hole in a broad range of applications.
- Primarily used in metal cutting, the wear-resistant properties of carbide also perform exceptionally well in PVC/ABS, fiber glass, plastics, aluminum and more.
- Offering (2) cutting depths. 1" (25mm) for pipe / conduit and 3/16" (4.5mm) for sheet metal.
- Slug ejection in thinner materials.
- Step-Center pilot bit reduces "break through" impact and teeth enter the cut smooth.

Diameter		3/16" Cutting Depth Hole Saw Part No..	1" Cutting Depth Hole Saw Part No..
Inches	Metric (mm)		
9/16	14	MKM166034	—
5/8	16	MKM166041	—
11/16	17	MKM166058	—
3/4	19	MKM166065	—
—	20	MKM166577	—
13/16	21	MKM166072	—
7/8	22	MKM166089	—
15/16	24	MKM166096	MKM167086
—	25	MKM166584	—
1	25	MKM166102	MKM167903
1-1/16	27	MKM166119	MKM167109
1-1/8	29	MKM166126	MKM167116
1-3/16	30	MKM166133	MKM167123
1-7/32	31	MKM166140	—
1-1/4	32	MKM166157	MKM167130
	32	MKM166591	—
1-5/16	33	MKM166164	MKM167147
1-3/8	35	MKM166171	MKM167154
1-7/16	37	MKM166188	MKM167161
—	38	MKM166607	—
1-1/2	38	MKM166195	MKM167178
1-9/16	40	MKM166201	MKM167185
1-5/8	41	MKM166218	MKM167192
1-11/16	43	MKM166225	MKM167208
1-3/4	44	MKM166232	MKM167215
1-13/16	46	MKM166249	MKM167222
1-7/8	48	MKM166256	MKM167239
1-15/16	49	MKM166263	MKM167246
—	50	MKM166614	—
2	51	MKM166270	MKM167253



3/16" Cutting Depth



1" Cutting Depth



Hole Cutters

CT Hole Cutters continued

Diameter		3/16" Cutting Depth Hole Saw Part No..	1" Cutting Depth Hole Saw Part No..
Inches	Metric (mm)		
2-1/8	54	MKM166287	MKM167260
2-3/16	55.5	MKM166294	—
2-1/4	57	MKM166300	MKM167277
2-5/16	—	MKM166317	—
2-3/8	60	MKM166324	MKM167284
2-7/16	62	MKM166331	—
2-1/2	64	MKM166438	MKM167291
2-9/16	65	MKM166355	MKM167301
2-5/8	67	MKM166362	MKM167314
2-11/16	71.5	MKM166379	—
2-3/4	70	MKM166386	MKM167321
2-15/16	74.5	MKM166416	—
2-7/8	73	MKM166409	MKM167338
3	76	MKM166423	MKM167345
3-1/8	79	MKM166430	—
3-1/4	83	MKM166447	MKM167352
3-3/8	86	MKM166454	—
3-1/2	89	MKM166461	MKM167369
3-5/8	92	MKM166478	MKM167376
3-3/4	95	MKM166485	MKM167283
3-7/8	98	MKM166492	—
4	102	MKM166508	MKM167390
4-1/8	105	MKM166515	MKM167406
4-1/4	108	MKM166522	MKM167413
4-3/8	111	MKM166539	—
4-1/2	114	MKM166546	MKM167420
4-3/4	121	MKM166553	—
5	127	MKM166560	—



3/16" Cutting Depth



1" Cutting Depth

Replacement Parts		
Type	Cutting Depth	Part No.
Set Screw	3/16 & 1	MKM166003
Pilot Bit	3/16	MKM166010
Pilot Bit	1	MKM167000
Ejector Spring	3/16	MKM166027
Ejector Spring	1	MKM167017



MKM166003



MKM167000



MKM167017

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Circular Saw Blades



- Cut through steel and other tough metals faster than ever. Unique combinations of metallurgy and blade configurations are tailored for peak performance in specific applications.
- When we demonstrate the Morse Metal Devil® blade, we ask viewers to touch the freshly cut metal edges. People are amazed to find how cool it is to the touch. The unique metallurgy of the carbide tips means there is minimal heat transferred to the inner plate.
- Morse Metal Devil blades cut so much faster than traditional methods, that it is hardly even a race. Consider that a Morse Metal Devil blade can cut through 6" x 1/4" thick steel in approximately 12 seconds.
- The Morse Metal Devil is constructed with a hardened steel inner plate that has a unique combination of tungsten carbide and titanium carbide tips brazed to the teeth. As a result Morse Metal Devil blades offer exceptional wear resistance and make more cuts than any other metal cutting blade on the market today.

Blade Diameter	Application	No. of Teeth	Arbor	Max RPM	1/Each Part No.
5-3/8"	Steel	32	5/8	4200	MKM101332
	Steel	32	20mm	4200	MKM101325
	Aluminum	48	20-10mm-5/8	4200	MKM101578
	Thin Steel	50	20mm	4200	MKM101769
6-1/4"	Aluminum	54	5/8	4200	MKM101585
	Steel	48	20-16mm	4200	MKM101509
	Thin Steel	56	20mm	4200	MKM101776
6-1/2"	Steel	40	5/8	4200	MKM101516
	Thin Steel	48	5/8	4200	MKM100076
	Aluminum	54	5/8	4200	MKM101592
	Steel	40	20mm	4200	MKM101523
	Thin Steel	48	20mm	4200	MKM100649
	Steel	40	5/8	4200	MKM100984
	Stainless Steel	48	5/8	4200	MKM101714
	Aluminum	56	5/8	4200	MKM101738
	Steel	40	20mm	4200	MKM101745
	Stainless Steel	48	20mm	4200	MKM101707
Aluminum	56	20mm	4200	MKM101721	
6-3/4"	Steel	40	20mm	4200	MKM101530
	Steel	40	20mm	4200	MKM100458
7"	Steel	40	20mm	5800	MKM101363
	Stainless Steel	44	20mm	5800	MKM101677
	Aluminum	54	20mm	5800	MKM101608
	Thin Steel	68	20mm	5800	MKM101783
	Steel	36	30-20mm	5800	MKM100502



MKM101325



MKM101516



MKM101530



MKM101677



Circular Saw Blades

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Circular Saw Blades continued

Blade Diameter	Application	No. of Teeth	Arbor	Max RPM	1/Each Part No.
7-1/4"	Steel	40	5/8 KO	5800	MKM101349
	Steel	48	5/8 KO	5800	MKM101356
	Aluminum	60	5/8 KO	5800	MKM101615
	Steel	40	20mm	5800	MKM101547
	Steel	48	20mm	5800	MKM101554
7-1/2"	Thin Steel	68	30mm	5800	MKM100533
8"	Steel	42	5/8	5800	MKM101387
	Steel	48	5/8	5800	MKM101394
	Stainless Steel	50	5/8	5800	MKM101684
	Aluminum	60	5/8	5800	MKM101622
	Thin Steel	68	5/8	5800	MKM101806
8-1/4"	Steel	48	5/8 KO	5800	MKM101370
9"	Steel	48	1	3200	MKM101400
	Stainless Steel	56	1	3200	MKM101691
	Thin Steel	68	1	3200	MKM101813
	Aluminum	71	1	3200	MKM101639
10"	Thin Steel	52	5/8 KO	5200	MKM101820
	Aluminum	72	5/8 KO	5500	MKM101646
12"	Steel	60	1	1800	MKM101561
	Aluminum	80	1	3800	MKM101653
	Thin Steel	80	1	2000	MKM101837
14"	Steel	66	1	1800	MKM101318
	Aluminum	80	1	3800	MKM101660
	Steel Studs	81	1	1800	MKM100670
	Thin Steel	90	1	1800	MKM101844
	Stainless Steel	90	1	1800	MKM100694



MKM101356



MKM101394



MKM101639



MKM101653




MKM100694






**Full Assortment
Product Quantity**

18 TPI
BI-METAL HACKSAW BLADE
HSB1218



5



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**Cobalt – Jobber Length
Part No. DBCS15
1/16" – 1/2" by 32nds, 135° Split Point
15 Pieces (Comes in a metal index)**

Size (in)	Part No.	Size (in)	Part No.
1/16	DBC116	5/16	DBC516
3/32	DBC332	11/32	DBC1132
1/8	DBC18	3/8	DBC38
5/32	DBC532	13/32	DBC1332
3/16	DBC316	7/16	DBC716
7/32	DBC732	15/32	DBC1532
1/4	DBC14	1/2	DBC12
9/32	DBC932		

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USA





Cutting Tool Assortments

**MADE IN
USA**



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Cobalt – Jobber Length

Part No. DBCS29

1/16" – 1/2" by 64ths, 135° Split Point

29 Pieces (Comes in a metal index)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBC116	19/64	DBC1964
5/64	DBC564	5/16	DBC516
3/32	DBC332	21/64	DBC2164
7/64	DBC764	11/32	DBC1132
1/8	DBC18	23/64	DBC2364
9/64	DBC964	3/8	DBC38
5/32	DBC532	25/64	DBC2564
11/64	DBC1164	13/32	DBC1332
3/16	DBC316	27/64	DBC2764
13/64	DBC1364	7/16	DBC716
7/32	DBC732	29/64	DBC2964
15/64	DBC1564	15/32	DBC1532
1/4	DBC14	31/64	DBC3164
17/64	DBC1764	1/2	DBC12
9/32	DBC932		

Cobalt – Numbered #1 Thru #60

Part No. DBCSN

60 Pieces (Comes in a metal index)

Size	Part No.	Size	Part No.	Size	Part No.
#1	DBC1N	#21	DBC21N	#41	DBC41N
#2	DBC2N	#22	DBC22N	#42	DBC42N
#3	DBC3N	#23	DBC23N	#43	DBC43N
#4	DBC4N	#24	DBC24N	#44	DBC44N
#5	DBC5N	#25	DBC25N	#45	DBC45N
#6	DBC6N	#26	DBC26N	#46	DBC46N
#7	DBC7N	#27	DBC27N	#47	DBC47N
#8	DBC8N	#28	DBC28N	#48	DBC48N
#9	DBC9N	#29	DBC29N	#49	DBC49N
#10	DBC10N	#30	DBC30N	#50	DBC50N
#11	DBC11N	#31	DBC31N	#51	DBC51N
#12	DBC12N	#32	DBC32N	#52	DBC52N
#13	DBC13N	#33	DBC33N	#53	DBC53N
#14	DBC14N	#34	DBC34N	#54	DBC54N
#15	DBC15N	#35	DBC35N	#55	DBC55N
#16	DBC16N	#36	DBC36N	#56	DBC56N
#17	DBC17N	#37	DBC37N	#57	DBC57N
#18	DBC18N	#38	DBC38N	#58	DBC58N
#19	DBC19N	#39	DBC39N	#59	DBC59N
#20	DBC20N	#40	DBC40N	#60	DBC60N



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USA**



TriNado® – Fractional
Part No. DBFS15
 1/16" – 1/2" by 32nds, 135° Split Point
 15 Pieces (Comes in a metal index)

Size (in)	Part No.
1/16	DBF116
3/32	DBF332
1/8	DBF18
5/32	DBF532
3/16	DBF316
7/32	DBF732
1/4	DBF14
9/32	DBF932
5/16	DBF516
11/32	DBF1132
3/8	DBF38
13/32	DBF1332
7/16	DBF716
15/32	DBF1532
1/2	DBF12

TriNado® – Fractional
Part No. DBFS29
 1/16" – 1/2" by 16ths, 135° Split Point
 29 Pieces (Comes in a #PBDBF metal drill bit dispenser)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBF116	19/64	DBF1964
5/64	DBF564	5/16	DBF516
3/32	DBF332	21/64	DBF2164
7/64	DBF764	11/32	DBF1132
1/8	DBF18	23/64	DBF2364
9/64	DBF964	3/8	DBF38
5/32	DBF532	25/64	DBF2564
11/64	DBF1164	13/32	DBF1332
3/16	DBF316	27/64	DBF2764
13/64	DBF1364	7/16	DBF716
7/32	DBF732	29/64	DBF2964
15/64	DBF1564	15/32	DBF1532
1/4	DBF14	31/64	DBF3164
17/64	DBF1764	1/2	DBF12
9/32	DBF932		



Cutting Tool Assortments

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Thunderbit® – Fractional Part No. DBSS29

1/16" Thru 1/2" by 64ths, 135° Split Point
29 Pieces (Comes in a metal index)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBS116	19/64	DBS1964
5/64	DBS564	5/16	DBS516
3/32	DBS332	21/64	DBS2164
7/64	DBS764	11/32	DBS1132
1/8	DBS18	23/64	DBS2364
9/64	DBS964	3/8	DBS38
5/32	DBS532	25/64	DBS2564
11/64	DBS1164	13/32	DBS1332
3/16	DBS316	27/64	DBS2764
13/64	DBS1364	7/16	DBS716
7/32	DBS732	29/64	DBS2964
15/64	DBS1564	15/32	DBS1532
1/4	DBS14	31/64	DBS3164
17/64	DBS1764	1/2	DBS12
9/32	DBS932		

Thunderbit® – Fractional Part No. DBSS15

1/16" – 1/2" by 32nds, 135° Split Point
15 Pieces (Comes in a metal index)

Size (in)	Part No.
1/16	DBS116
3/32	DBS332
1/8	DBS18
5/32	DBS532
3/16	DBS316
7/32	DBS732
1/4	DBS14
9/32	DBS932
5/16	DBS516
11/32	DBS1132
3/8	DBS38
13/32	DBS1332
7/16	DBS716
15/32	DBS1532
1/2	DBS12

Above 29 Piece set also available in a PAL
Part No: DBSS29PAL



Above 15 Piece set also available in a PAL
Part No: DBSS15PAL





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Thunderbit® – Numbered
Part No. DBSS60N
#1 – #60, 135° Split Point
60 Pieces (Comes in a metal index)

Size	Part No.	Size	Part No.	Size	Part No.
#1	DBS1N	#21	DBS21N	#41	DBS41N
#2	DBS2N	#22	DBS22N	#42	DBS42N
#3	DBS3N	#23	DBS23N	#43	DBS43N
#4	DBS4N	#24	DBS24N	#44	DBS44N
#5	DBS5N	#25	DBS25N	#45	DBS45N
#6	DBS6N	#26	DBS26N	#46	DBS46N
#7	DBS7N	#27	DBS27N	#47	DBS47N
#8	DBS8N	#28	DBS28N	#48	DBS48N
#9	DBS9N	#29	DBS29N	#49	DBS49N
#10	DBS10N	#30	DBS30N	#50	DBS50N
#11	DBS11N	#31	DBS31N	#51	DBS51N
#12	DBS12N	#32	DBS32N	#52	DBS52N
#13	DBS13N	#33	DBS33N	#53	DBS53N
#14	DBS14N	#34	DBS34N	#54	DBS54N
#15	DBS15N	#35	DBS35N	#55	DBS55N
#16	DBS16N	#36	DBS36N	#56	DBS56N
#17	DBS17N	#37	DBS37N	#57	DBS57N
#18	DBS18N	#38	DBS38N	#58	DBS58N
#19	DBS19N	#39	DBS39N	#59	DBS59N
#20	DBS20N	#40	DBS40N	#60	DBS60N

Thunderbit® – Metric
Part No. DBSS25M
1.0 – 13.5, 135° Split Point
25 Pieces (Comes in a metal index)

Size	Part No.	Size	Part No.
1.00	DBS1M	7.50	DBS7.5M
1.50	DBS1.5M	8.00	DBS8M
2.00	DBS2M	8.50	DBS8.5M
2.50	DBS2.5M	9.00	DBS9M
3.00	DBS3M	9.50	DBS9.5M
3.50	DBS3.5M	10.00	DBS10M
4.00	DBS4M	10.50	DBS10.5M
4.50	DBS4.5M	11.00	DBS11M
5.00	DBS5M	11.50	DBS11.5M
5.50	DBS5.5M	12.00	DBS12M
6.00	DBS6M	12.50	DBS12.5M
6.50	DBS6.5M	13.00	DBS13M
7.00	DBS7M		

Thunderbit® – Reduced Shank
Part No. DBR12S8
Silver & Deming 9/16" to 1" by 16ths, 118° Split Point
8 Pieces (Comes in a DBIR8 molded case)

Size (in)	Part No.	Size (in)	Part No.
9/16	DBR12916	13/16	DBR121316
5/8	DBR1258	7/8	DBR1278
11/16	DBR121116	15/16	DBR121516
3/4	DBR1234	1	DBR121





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High-Speed Steel Part No. DBHS15

1/16" – 1/2" by 32nds, 118° Point
15 Pieces (Comes in a metal index)

Size (in)	Part No.
1/16	DBH116
3/32	DBH332
1/8	DBH18
5/32	DBH532
3/16	DBH316
7/32	DBH732
1/4	DBH14
9/32	DBH932
5/16	DBH516
11/32	DBH1132
3/8	DBH38
13/32	DBH1332
7/16	DBH716
15/32	DBH1532
1/2	DBH12

High-Speed Steel Part No. DBHS29

1/16" – 1/2" by 64ths, 118° Point
29 Pieces (Comes in a metal index)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBH116	19/64	DBH1964
5/64	DBH564	5/16	DBH516
3/32	DBH332	21/64	DBH2164
7/64	DBH764	11/32	DBH1132
1/8	DBH18	23/64	DBH2364
9/64	DBH964	3/8	DBH38
5/32	DBH532	25/64	DBH2564
11/64	DBH1164	13/32	DBH1332
3/16	DBH316	27/64	DBH2764
13/64	DBH1364	7/16	DBH716
7/32	DBH732	29/64	DBH2964
15/64	DBH1564	15/32	DBH1532
1/4	DBH14	31/64	DBH3164
17/64	DBH1764	1/2	DBH12
9/32	DBH932		



**High-Speed Steel – Left Hand
Part No. DBLHS15**

1/16" – 1/2" by 32nds, 135° Point
15 Pieces (Comes in a metal index)

Size (in)	Part No.
1/16	DBLH116
3/32	DBLH332
1/8	DBLH18
5/32	DBLH532
3/16	DBLH316
7/32	DBLH732
1/4	DBLH14
9/32	DBLH932
5/16	DBLH516
11/32	DBLH1132
3/8	DBLH38
13/32	DBLH1332
7/16	DBLH716
15/32	DBLH1532
1/2	DBLH12

**High-Speed Steel – Left Hand
Part No. DBLHS29**

1/16" – 1/2" by 64ths, 135° Split Point
29 Pieces (Comes in a metal index)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBLH116	19/64	DBLH1964
5/64	DBLH564	5/16	DBLH516
3/32	DBLH332	21/64	DBLH2164
7/64	DBLH764	11/32	DBLH1132
1/8	DBLH18	23/64	DBLH2364
9/64	DBLH964	3/8	DBLH38
5/32	DBLH532	25/64	DBLH2564
11/64	DBLH1164	13/32	DBLH1332
3/16	DBLH316	27/64	DBLH2764
13/64	DBLH1364	7/16	DBLH716
7/32	DBLH732	29/64	DBLH2964
15/64	DBLH1564	15/32	DBLH1532
1/4	DBLH14	31/64	DBLH3164
17/64	DBLH1764	1/2	DBLH12
9/32	DBLH932		



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Titanium Nitrate Part No. DBNS29 1/16" – 1/2" by 64ths, 135° Split Point 29 Pieces (Comes in a metal index)			
Size (in)	Part No.	Size (in)	Part No.
1/16	DBN116	19/64	DBN1964
5/64	DBN564	5/16	DBN516
3/32	DBN332	21/64	DBN2164
7/64	DBN764	11/32	DBN1132
1/8	DBN18	23/64	DBN2364
9/64	DBN964	3/8	DBN38
5/32	DBN532	25/64	DBN2564
11/64	DBN1164	13/32	DBN1332
3/16	DBN316	27/64	DBN2764
13/64	DBN1364	7/16	DBN716
7/32	DBN732	29/64	DBN2964
15/64	DBN1564	15/32	DBN1532
1/4	DBN14	31/64	DBN3164
17/64	DBN1764	1/2	DBN12
9/32	DBN932		



Nitro Heavy Duty Part No. DBZS29 1/16" – 1/2" by 64ths, 135° Split Point 29 Pieces (Comes in a metal index)			
Size (in)	Part No.	Size (in)	Part No.
1/16	DBZ116	19/64	DBZ1964
5/64	DBZ564	5/16	DBZ516
3/32	DBZ332	21/64	DBZ2164
7/64	DBZ764	11/32	DBZ1132
1/8	DBZ18	23/64	DBZ2364
9/64	DBZ964	3/8	DBZ38
5/32	DBZ532	25/64	DBZ2564
11/64	DBZ1164	13/32	DBZ1332
3/16	DBZ316	27/64	DBZ2764
13/64	DBZ1364	7/16	DBZ716
7/32	DBZ732	29/64	DBZ2964
15/64	DBZ1564	15/32	DBZ1532
1/4	DBZ14	31/64	DBZ3164
17/64	DBZ1764	1/2	DBZ12
9/32	DBZ932		





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Nitro Heavy Duty Part No. DBZS15 1/16" – 1/2" by 32nds, 135° Point 15 Pieces (Comes in a metal index)	
Size (in)	Part No.
1/16	DBZ116
3/32	DBZ332
1/8	DBZ18
5/32	DBZ532
3/16	DBZ316
7/32	DBZ732
1/4	DBZ14
9/32	DBZ932
5/16	DBZ516
11/32	DBZ1132
3/8	DBZ38
13/32	DBZ1332
7/16	DBZ716
15/32	DBZ1532
1/2	DBZ12



Nitro Heavy Duty Part No. DBZS29PAL 1/16" – 1/2" by 64ths, 135° Split Point 29 Pieces (Comes in a plastic pal)			
Size (in)	Part No.	Size (in)	Part No.
1/16	DBZ116	19/64	DBZ1964
5/64	DBZ564	5/16	DBZ516
3/32	DBZ332	21/64	DBZ2164
7/64	DBZ764	11/32	DBZ1132
1/8	DBZ18	23/64	DBZ2364
9/64	DBZ964	3/8	DBZ38
5/32	DBZ532	25/64	DBZ2564
11/64	DBZ1164	13/32	DBZ1332
3/16	DBZ316	27/64	DBZ2764
13/64	DBZ1364	7/16	DBZ716
7/32	DBZ732	29/64	DBZ2964
15/64	DBZ1564	15/32	DBZ1532
1/4	DBZ14	31/64	DBZ3164
17/64	DBZ1764	1/2	DBZ12
9/32	DBZ932		



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High-Speed Steel – Left Hand Part No. DBLS15

1/16" – 1/2" by 64ths, 118° Point
15 Pieces (Comes in a metal index)

Size (in)	Part No.
1/16	DBL116
3/32	DBL332
1/8	DBL18
5/32	DBL532
3/32	DBL316
7/32	DBL732
1/4	DBL14
9/32	DBL932
5/16	DBL516
11/32	DBL1132
3/8	DBL38
13/32	DBL1332
7/16	DBL716
15/32	DBL1532
1/2	DBL12

High-Speed Steel – Left Hand Part No. DBLS29

1/16" – 1/2" by 64ths, 118° Point
29 Pieces (Comes in a metal index)

Size (in)	Part No.	Size (in)	Part No.
1/16	DBL116	19/64	DBL1964
5/64	DBL564	5/16	DBL516
3/32	DBL332	21/64	DBL2164
7/64	DBL764	11/32	DBL1132
1/8	DBL18	23/64	DBL2364
9/64	DBL964	3/8	DBL38
5/32	DBL532	25/64	DBL2564
11/64	DBL1164	13/32	DBL1332
3/16	DBL316	27/64	DBL2764
13/64	DBL1364	7/16	DBL716
7/32	DBL732	29/64	DBL2964
15/64	DBL1564	15/32	DBL1532
1/4	DBL14	31/64	DBL3164
17/64	DBL1764	1/2	DBL12
9/32	DBL932		



Screw Extractors #1 Thru #6
Part No. DBES6
6 Pieces (Comes in a vinyl pouch)

Size	Part No.
#1	DBE1
#2	DBE2
#3	DBE3
#4	DBE4
#5	DBE5
#6	DBE6

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Masonry – Carbide Tip

Full Assortment

Part No. DBBS6

6 Pieces (Comes in a PB8S parts bin)

Back of Drawer

<p>1/2" x 6" MASONARY DRILL BIT DBB12x6</p>  <p>1</p>	
<p>3/8" X 6" MASONARY DRILL BIT DBB38x6</p>  <p>1</p>	
<p>1/4" x 6" MASONARY DRILL BIT DBB14x6</p>  <p>1</p>	<p>5/8" X 6" MASONARY DRILL BIT DBB58x6</p>  <p>1</p>
<p>1/4" x 6" MASONARY DRILL BIT DBB14x6</p>  <p>1</p>	<p>9/16" x 6" MASONARY DRILL BIT DBB916x6</p>  <p>1</p>

Front of Drawer



Cutting Tool Assortments



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Tap & Die – U.S., #4 – 1/2" Part No. TDS41 41 Pieces (Comes with a molded case)

Thread Size	Tap No.	Die No.
#4 – 40NC	TPP440	DE440
#6 – 32NC	TPP632	DE632
#8 – 32NC	TPP832	DE832
#10 – 24NC	TPP1024	DE1024
#10 – 32NF	TPP1032	DE1032
#12 – 24NC	TPP1224	DE1224
1/4" – 20NC	TPP1420	DE1420
1/4" – 28NF	TPP1428	DE1428
5/16" – 18NC	TPP51618	DE51618
5/16" – 24NF	TPP51624	DE51624
3/8" – 16NC	TPP3816	DE3816
3/8" – 24NF	TPP3824	DE3824
7/16" – 14NC	TPP71614	DE71614
7/16" – 20NF	TPP71620	DE71620
1/2" – 13NC	TPP1213	DE1213
1/2" – 20NF	TPP1220	DE1220
1-8" – 27NPT	TPP1827	DE1827

Plain Die Stock TD120
T-Tap Wrench, Hex Nut TD150
Adjustable Die Stock TD130
T-Tap Wrench, Hex Nut with 3/8" Square Drive TD160
Adjustable Handle Tap Wrench TD140
Screw Pitch Gauge TD170
Screwdriver
Case TDS41C

Tap & Die – U.S., 9/16" – 1" Part No. TDS25 25 Pieces (Comes with a molded case)

Thread Size	Tap No.	Die No.
9/16" – 12NC	TPP91612	DE91612
9/16" – 18NF	TPP91618	DE91618
5/8" – 11NC	TPP5811	DE5811
5/8" – 18NF	TPP5818	DE5818
3/4" – 10NC	TPP3410	DE3410
3/4" – 16NF	TPP3416	DE3416
7/8" – 9NC	TPP789	DE789
7/8" – 14NF	TPP7814	DE7814
1" – 8NC	TPP18	DE18
1" – 14NS	TPP114	DE114
1/4" – 18NPT	TPP1418	DE1418

Adjustable Die Stock – 1-7/16" Hexagon Dies TD210
Adjustable Die Stock – 1-13/16" Hexagon Dies TD220
Adjustable Handle Tap Wrench – Taps 1/4" to 1" TD230

Tap & Die – Metric, 3mm – 12mm Part No. TDS41M 41 Pieces (Comes with a molded case)

Thread Size	Tap No.	Die No.
3mm – .50mm	TPPM350	DEM350
4mm – .70mm	TPPM470	DEM470
4mm – .75mm	TPPM475	DEM475
5mm – .80mm	TPPM580	DEM580
5mm – .90mm	TPPM590	DEM590
6mm – 1.00mm	TPPM6100	DEM6100
7mm – 1.00mm	TPPM7100	DEM7100
8mm – 1.00mm	TPPM8100	DEM8100
8mm – 1.25mm	TPPM8125	DEM8125
9mm – 1.00mm	TPPM9100	DEM9100
9mm – 1.25mm	TPPM9125	DEM9125
10mm – 1.25mm	TPPM10125	DEM10125
10mm – 1.50mm	TPPM10150	DEM10150
11mm – 1.50mm	TPPM11150	DEM11150
12mm – 1.50mm	TPPM12150	DEM12150
12mm – 1.75mm	TPPM12175	DEM12175
1-8" – 28 BSP	TPPM1828	DEM1828

Plain Die Stock TD120
T-Tap Wrench, Hex Nut TD150
Adjustable Die Stock TD130
T-Tap Wrench, Hex Nut with 3/8" Square Drive TD160
Adjustable Handle Tap Wrench TD140
Screw Pitch Gauge TD170M
Screwdriver
Case TDS41MC



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Drill/Tap Set NF 6 – 40 to 1/2 – 20
Part No. DTSNF
19 Pieces (Comes in a metal index)

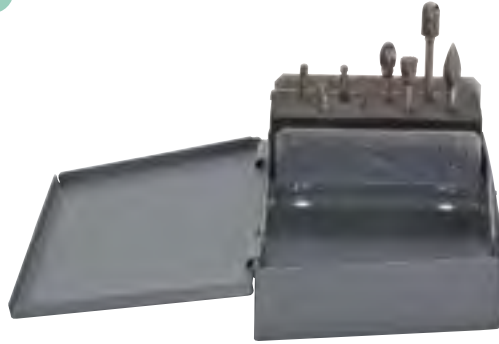
Description	Part No.
Tap 6 – 40 HSS Plug NF Thread	TPS640
Tap 8 – 36 HSS Plug NF Thread	TPS836
Tap 10 – 24 HSS Plug NF Thread	TPS1024
Tap 10 – 32 HSS Plug NF Thread	TPS1032
Tap 1/4 – 28 HSS Plug NF Thread	TPS1428
Tap 5/16 – 24 HSS Plug NF Thread	TPS51624
Tap 3/8 – 24 HSS Plug NF Thread	TPS3824
Tap 7/16 – 20 HSS Plug NF Thread	TPS71620
Tap 1/2 – 20 HSS Plug NF Thread	TPS1220
Drill/Tap Index	DTINF
Drill Bit, #33 HSS 135° Split Point	DBS33N
Drill Bit, #29 HSS 135° Split Point	DBS29N
Drill Bit, #25 HSS 135° Split Point	DBS25N
Drill Bit, #21 HSS 135° Split Point	DBS21N
Drill Bit, #3 HSS 135° Split Point	DBS3N
Drill Bit, I HSS 135° Split Point	DBSI
Drill Bit, Q HSS 135° Split Point	DBSQ
Drill Bit, 25/64 HSS 135° Split Point	DBS2564
Drill Bit, 29/64 HSS 135° Split Point	DBS2964

Drill/Tap Set NC 6 – 32 to 1/2 – 13
Part No. DTSNC
19 Pieces (Comes in a metal index)

Description	Part No.
Tap 6 – 32 HSS Plug NC Thread	TPS632
Tap 8 – 32 HSS Plug NC Thread	TPS832
Tap 10 – 24 HSS Plug NC Thread	TPS1024
Tap 10 – 32 HSS Plug NC Thread	TPS1032
Tap 1/4 – 20 HSS Plug NC Thread	TPS1420
Tap 5/16 – 18 HSS Plug NC Thread	TPS51618
Tap 3/8 – 16 HSS Plug NC Thread	TPS3816
Tap 7/16 – 14 HSS Plug NC Thread	TPS71614
Tap 1/2 – 13 HSS Plug NC Thread	TPS1213
Drill / Tap Index	DTINC
Drill Bit, #36 HSS 135° Split Point	DBS36N
Drill Bit, #29 HSS 135° Split Point	DBS29N
Drill Bit, #25 HSS 135° Split Point	DBS25N
Drill Bit, #21 HSS 135° Split Point	DBS21N
Drill Bit, #7 HSS 135° Split Point	DBS7N
Drill Bit, F HSS 135° Split Point	DBSF
Drill Bit, 5/16 HSS 135° Split Point	DBS516
Drill Bit, U HSS 135° Split Point	DBSU
Drill Bit, 27/64 HSS 135° Split Point	DBS2764



Cutting Tool Assortments



Bur Set 1/8" Shank
Part No. BCK21
8 Pieces (Comes in a BCI1 metal index)

Head Style	Cutter Dia.	Flute "L"	Part No.
Cylindrical	1/8"	9/16"	B2SA43
Cylindrical Radius End	1/4"	1/2"	B2SC51
Ball	1/8"	1/8"	B2SD42
Oval	1/4"	1/2"	B2SE51
Tree	1/8"	1/2"	B2SF42
Tree With Pointed End	1/4"	1/2"	B2SG51
28° Pointed Cone	1/8"	5/8"	B2SM43
Inverted Taper	1/4"	1/4"	B2SN51



Bur Set 1/4" Shank
Part No. BCK12
8 Pieces (Comes in a BCI3 metal index)

Head Style	Cutter Dia.	Flute "L"	Part No.
Cylindrical	1/2"	1"	B1SA5
Cylindrical Radius End		1"	B1SC5
Ball		1/2"	B1SD5
Oval		7/8"	B1SE5
Tree		1"	B1SF5
Tree With Pointed End		1"	B1SG5
14° Taper Radius		1-1/8"	B1SL4
28° Pointed Cone		7/8"	B1SM5



Bur Set 1/4" Shank
Part No. BCK11
10 Pieces (Comes in a BCI2 metal index)

Head Style	Cutter Dia.	Flute "L"	Part No.
Cylindrical End Cut	3/8"	3/4"	B1SB3
Ball	5/16"	1/4"	B1SD2
Flame	1/4"	5/8"	B1SH1
Tree	3/8"	3/4"	B1SF3
14° Taper Radius	3/8"	1-1/16"	B1SL3
Cylindrical	1/2"	1"	B1SA5
Cylindrical Radius End	1/2"	1"	B1SC5
Ball	1/2"	1/2"	B1SD5
Oval	1/2"	7/8"	B1SE5
Tree With Pointed End	1/2"	1"	B1SG5

Step Drill Kit

Part No: MKM124201

- This kit offers 4 of the most popular step drill sizes for electrical, automotive and sheet metal applications.
- Contains: MKM124003, MKM124027, MKM124034, MKM124041








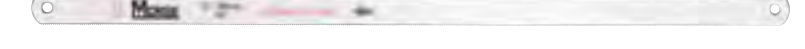


Hack Saw Blades

Full Assortment

Part No. HSBK31

30 Pieces (Comes in a PB6L parts bin)

Back of Drawer		
14 TPI BI-METAL HACKSAW BLADE HSB1214		5
14/18 VARIABLE TOOTH BI-METAL HACKSAW BLADE HSB121418		5
18 TPI BI-METAL HACKSAW BLADE HSB1218		5
20/24 TPI VARIABLE TOOTH BI-METAL HACKSAW BLADE HSB122024		5
24 TPI BI-METAL HACKSAW BLADE HSB1224		5
32 TPI BI-METAL HACKSAW BLADE HSB1232		5
Front of Drawer		





Cutting Tool Assortments

Jig Saw Blade Kits			
Description	Contains (quantity) Length in inches – TPI	Storage	Part No.
5 pc. Universal Shank Bi-Metal Kit	(1 each): 4–6, 3–18, 4–10, 3–24, 4–14	Card	SBUK5
6 pc. Universal Shank Bi-Metal Kit	(1 each): 4–6, 3–18, 4–10, 3–24, 4–14, 3 5/8–12	Vinyl pouch	MKM401173
Universal Shank Carbon Kit	(2 each): 4–6, 4–10; 2 3/4–20, 4–10 Reverse Tooth	Vinyl pouch	MKM401418
T–Shank Bi-Metal Kit	4–6, 3–24, 4–10, 3–14, (2) 3–18	Vinyl pouch	MKM401531
T–Shank Carbon Kit	4–6, 3–20, 4–6, 4–10 Reverse Tooth, (2) 4–10	Vinyl pouch	MKM401432

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MADE IN USA

Reciprocating Saw Blade Kits & Assortments			
Description	Contains (quantity) Length in inches – TPI	Storage	Part No.
Contractor General Use Kit	(7 each): 6–18, 6–6, 6–5/8, 6–10, 6–14, 6–10/14	Plastic case	MKM405003
Contractor Heavy Duty Kit	(5 each): 6–5/8, 6–10/14, 6–14, 6–18; (10 each): 6–6	Plastic case	MKM405010
Demolition Kit	(5 each): 6–6, 6–5/8, 6–10/14; (4) 6–6; (8) 6–10	Plastic case	MKM405027
Assortment Card	(1 each): 4–14, 4–18, 6–14, 6–18, 6–6	Card	JRBK6
General Purpose Kit	(5) 6–18; (6) 6–6; (2 each): 8–14, 8–10/14, 9–6	Tube	MKM397483
Heavy Duty Kit	(4) 6–18, (2 each): 6–10, 6–14, 9–10, 9–14	Tube	MKM397490



MKM405003



JRBK6



MKM397483



MKM397490



Hole Saw Kits		
Description	Contains	Part No.
13 pc. Master Electricians	Master Cobalt Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 3" 3-5/8", 4-1/8", 4-1/2"; Arbors (1 each): SHA24K, SHA44, SHA45P	SHK08E
5 pc. Special Electricians	Master Cobalt Saws (1 each): 3", 3-5/8", 4-1/8", 4-1/2"; Arbors (1 each): SHA45P	MKM171090
8 pc. Electricians	Master Cobalt Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"; Arbors (1 each): SHA44, SHA45P	SHK02E
9 pc. Electricians	Master Cobalt Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"; Arbors (1 each): MKM140041, SHA45P; Adapter Nut (1 each): MKM140744	MKM169431
15 pc. Industrial	Master Cobalt Saws (1 each): 3/4", 7/8", 1", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3"; Arbors (1 each): MKM140041, SHA45P; Extension (1): SHE12; Ejector Spring (1): MKM140805	MKM169424
19 pc. Industrial	Master Cobalt Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3", 3-1/4", 3-5/8", 3-3/4", 4-1/4", 4-1/2"; Arbors (1 each): SHA24K, SHA44, SHA45P; Extension (1): SHE12	SHK06I
8 pc. Locksmith	Master Cobalt Saws (1 each): 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2-1/8"; Arbors (1 each): MKM140041, SHA35PS	MKM169448
8 pc. Locksmith	Master Cobalt Saws (1 each): 7/8", 1", 1-1/4", 1-1/2", 1-3/4", 2-1/8"; Arbors (1 each): SHA24, SHA45P	MKM171038
13 pc. Maintenance	Master Cobalt Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Arbors (1 each): SHA24K, SHA44, SHA45P; Extension (1): SHE12	SHK100
25 pc. Professional Tradesman	Master Cobalt Saws (1 each): 3/4", 7/8", 1", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/8", 2-1/4", 2-1/2", 2-11/16", 3", 3-1/4", 3-3/8", 3-5/8", 3-3/4", 4-1/8", 4-1/2", 4-3/4"; Arbors (1 each): MKM140041, SHA45P; Pilot Drills (1 each): SHPD1, SHPD2; Extension (1): SHE12	MKM169356



SHK08E



MKM171090



SHK02E



MKM169431



MKM169424



SHK06I



MKM169448



MKM171038



SHK100



MKM169356



Cutting Tool Assortments

**MADE IN
USA**

Hole Saw Kits		
Description	Contains	Part No.
6 pc. Mechanics	Master Cobalt Saws (1 each): 7/8", 1", 1-1/8", 1-1/4", 1-1/2" ; Arbors (1 each): MKM140041	MKM171052
16 pc. Master Plumbers	Master Cobalt Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4", 2-9/16", 3", 3-1/2", 4", 4-1/4", 4-1/2"; Arbors (1 each): MKM140041, SHA45P; Pilot Drills (1 each): SHPD1, SHPD2;	MKM169417
8 pc. Plumbers	Master Cobalt Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"; Arbors (1 each): SHA44, SHA45P	MKM171045
8 pc. Refrigeration	Master Cobalt Saws (1 each): 5/8", 7/8", 1-1/8", 1-3/8", 1-5/8", 2-1/8"; Arbors (1 each): MKM140041, SHA35PS	MKM170994
8 pc. Utility	Master Cobalt Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/2" ; Arbors (1 each): MKM140041, SHA45P	MKM171076
29 pc. Electrician's Combination	Bi-Metal Saws (1 each): 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/2", 2-11/16", 3", 3-5/8", 4-1/8", 4-1/2", 4-3/4"; Carbide Tipped Saws (1each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Arbors (1 each): MKM140041, SHA35PS; Pilot Drills (2 each): SHPD1	MKM169776
28 pc. Plumber's Combination	Bi-Metal Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/8", 2-1/4", 2-9/16", 3", 3-1/2", 4", 4-1/4", 4-1/2"; Carbide Tipped Saws (1each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Arbors (1 each): SHA24, MKM140201; Pilot Drills (2 each): SHPD1, MKM140874	MKM169783
14 pc. Master Electricians	Advanced Edge Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2", 3", 3-5/8", 4-1/8", 4-3/4"; Arbors (1 each): MKM168205, MKM168212, MKM168229	MKM168038
8 pc. Electricians	Advanced Edge Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"; Arbors (1 each): MKM168205, MKM168229	MKM168007
11 pc. General Purpose	Advanced Edge Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Arbors (1 each): MKM168205, MKM168229	MKM168021
19 pc. Industrial	Advanced Edge Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3", 3-1/4", 3-5/8", 3-3/4", 4-1/4", 4-1/2"; Arbors (1 each): MKM168205, MKM168212, MKM168229; Extension (1): MKM140409	MKM171007
8 pc. Plumbers	Advanced Edge Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"; Arbors (1 each): MKM168205, MKM168229	MKM168014

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MKM171052



MKM169417



MKM171045



MKM171076



MKM169776



MKM169783



MKM168007



Hole Saw Kits		
Description	Contains	Part No.
8 pc. Carbide Tipped Electricians	Carbide Tipped Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"; Arbors (1 each): MKM140898, MKM140904	MKM160001
12 pc. Carbide Tipped Maintenance	Carbide Tipped Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Arbors (1 each): SHA24K, SHA44, SHA45P; Extension (1): SHE12	MKM160056
9 pc. Electricians*	The Real McCoy Saws (1 each): 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2"; Pilot Drills (3): SHPD2	MKM111027
9 pc. Electricians - Deep Cut*		MKM123495
9 pc. Plumbers*	The Real McCoy Saws (1 each): 3/4", 7/8", 1-1/8", 1-1/2", 1-3/4", 2-1/4"; Pilot Drills (3): SHPD2	MKM111041
9 pc. Plumbers -Deep Cut*		MKM123518
15 pc. Maintenance*	The Real McCoy Saws (1 each): 3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2"; Pilot Drills (4): SHPD2; Extension (1): SHE12; Flat Head Screwdriver (1)	MKM111010
15 pc. Maintenance - Deep Cut*		MKM123488
13 pc. Locksmiths*	The Real McCoy Saws (1 each): 3/4", 7/8", 1", 1-3/8", 1-1/2", 1-5/8", 1-3/4", 2-1/8"; Pilot Drills (4): SHPD2; Flat Head Screwdriver (1)	MKM111034
13 pc. Locksmiths - Deep Cut*		MKM123501
6 pc. Mechanics	The Real McCoy Saws (1 each): 7/8", 1", 1-1/8", 1-1/4", 1-1/2"; Pilot Drills (1): SHPD2	MKM111058
5 pc. Home Owners Utility	The Real McCoy Saws (1 each): 3/4", 1", 1-1/2", 2-1/8"; Pilot Drills (1): SHPD2	MKM110006
3 pc. Lock Installation	The Real McCoy Saws (1 each): 1", 2-1/8"; Pilot Drills (1): SHPD2	MKM121019

* Standard Kits offer 1-1/2" cutting depth. Deep Cut Kits offer 1-7/8" cutting depth. All have 7/16" hex shank arbors.



MKM160001



MKM160056



MKM111027



MKM111041



MKM111010



MKM111034



MKM111058



MKM110006



TOOLING

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Diamond Crimper Tool*

Part No: RC840A

6 – 250 MCM, for battery terminals with rotating dies.



Compression Crimp Tool*

Part No: RC840B

For battery terminals and flared lugs, 4 – 4/0 GA, adjustable/dial-in gauge settings.



Impact Ram-Dent Crimping Tool

Part No: SKT840

For non-insulated lugs, 8 to 4/0 GA.



Heavy-Duty Cable Cutter

Part No: CC840

For copper cable up to 350 MCM.



Cable Cutter

Part No: CC830K

For copper stranded cable up to 2/0 GA.



Rotary Cable Stripper

Part No: RCS8400

Ideal hand tool to score and strip battery cable (BCF) and welding cable (BCEF). 8 AWG to 400mcm. Replacement blades #RCS2B.

*Replacement parts may be available for some tools. Contact your local Territory Manager or call customer support at 1-800-944-5463.



DEUTSCH Pin and Socket Crimping Tools

The professional crimping tools for Deutsch pins and sockets.



Crimping Tools for Deutsch Contacts	
Description	Part No.
26-12 GA Professional 8 indent (2 rows of 4)	DHDT4800
10-6 GA Professional	DHDT0408



Crimping Tool for DT Contacts & D-SUB Contacts

Part No: PA1461

Full cycle ratchet crimper ensures proper crimps. Auto release when crimp cycle is completed. Comfortable, rubber embedded handles. 18-12 GA Economy 4 indent.



Removal Tool for DT Series Deutsch

Part No: DDTRT1



Ferrule Ratchet Crimp Tool

Part No: RTP3

For ferrules, 24 - 10 GA



Ferrule Ratchet Crimp Tool

Part No: RTP2

For ferrules, 10 - 6 GA



Combination Crimping, Stripping and Screw Cutting Tool

Part No: 2000

For insulated and non-insulated terminals, 22-10 GA crimp range.



Combination Crimping, Stripping and Screw Cutting Tool

Part No: 1002

For insulated and non-insulated terminals, 22-10 GA crimp range (also has ignition terminal crimp nest).



Combination Crimping, Stripping and Screw Cutting Tool

Part No: 450

For insulated and non-insulated flag terminals, 26 - 6 GA crimp range.

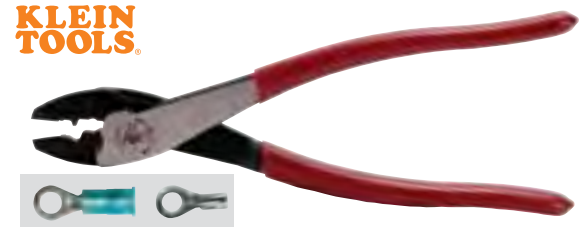




Crimping Tools & Accessories



Combination Crimping and Wire Cutting Tool
Part No: 429
For insulated and non-insulated terminals, 22–10 GA crimp range.



Combination Crimping and Wire Cutting Tool
Part No: 1005
For insulated and non-insulated terminals, 22–10 GA crimp range.



Compression Crimp Tool
Part No: RC6220
For insulated and non-insulated lugs, 8–2 GA, 4 crimp nests.



Pro-Crimper
Part No: AP584333
Insulated Crimping Tool, 22–10 GA range for insulated terminals and splices. #AP3549401 Pro-Crimper frame. Many die sets available.



Ratchet Crimping Tool
Part No: RT4140
For Insulated terminals, 22–10 GA range. Replacement die #410040.



Ratchet Crimping Tool 22–8 GA
Part No: RT822
Designed for heat shrink terminals. Four crimp nests: 8 AWG, 12–10 AWG, 16–14 AWG, 22–18 AWG. Ensures uniform crimp termination regardless of user. See page 532 for additional dies.



Insulated Ratchet Tool
Part No: RT2001
Ergonomically correct, 3 color-coded die/nest for insulated terminals, 22–10 GA.



Ratchet Crimping Tool
Part No: RT3120
22–10 GA, for insulated terminals.



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Thomas&Betts



Thomas & Betts Combination Crimping and Wire Cutting Tool

Part No: WT111M

For non-insulated terminals only (indent crimp), 22–10 GA crimp range.



KLEIN TOOLS.



Combination Crimping and Wire Cutting Tool

Part No: 1006

For non-insulated terminals only (indent crimp), 22–10 GA crimp range.



Ratchet Crimping Tool

Part No: RT4125

For non-insulated terminals, 22–10 GA range. Replacement die #410025.



RAM-DENT Crimp Tool

Part No: WT115

For non-insulated lugs, 8–2 GA.

Thomas&Betts



Non-Insulated Ratchet Tool

Part No: RT45S

For Type 4 terminals, Ergonomically correct, for color-coded lugs and splices, 8–2 GA.



Open Barrel Contact Crimper

Part No: 29564

Five cavity, two jaw tool designed to crimp a wide variety of open barrel contacts. Three "F" nests for crimping the conductor portion. Two oval nests for crimping the insulation portion.



Metri-Pack / Weather Pack Crimper

Part No: RT18

22–14 GA



Metri-Pack / Weather Pack Ratchet Crimper

Part No: RT17

Crimper 12–10 GA





Crimping Tools & Accessories



Metri-Pack Ratchet Crimper
Part No: RT13
20–14 GA



Metric-Pack Extraction Tool
Part No: 9ETMP



**Weather Pack Ratchet Crimping Tool
Dual Nest**
Part No: RT4254
14–20 GA, for Weather Pack pin terminals.



Weather Pack Removal Tool
Part No: 9ET



Molex .093\"/>



Molex .062\"/>



Molex .093\"/>



Molex .062\"/>



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Pin Extraction Tool

Part No: 9ETM9

For .093" Molex pin connectors.



Pin Extraction Tool

Part No: 9ETM6

For .062" Molex pin connectors.



Extraction Tool For Pin & Sockets

Part No: AP18040301

For Universal Mate-N-Lok Contacts.



Pro-Crimper For Commercial Mate-N-Lok

Part No: AP905751

For 20-14 AWG.



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Extraction Tool For Pin & Sockets

Part No: AP305183

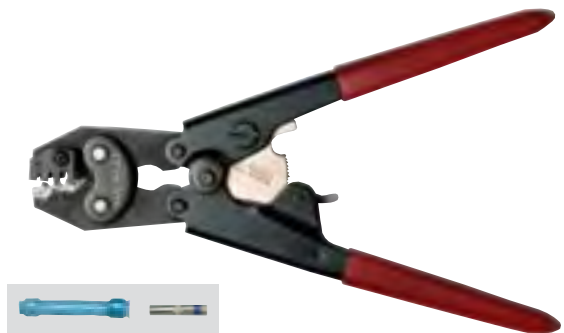
Type II & III CPC Contacts.



Pro-Crimper For Type III

Part No: AP584951

For 24-16 AWG.



Ratchet Crimping Tool

Part No: RT559

26-12 GA, for sealed crimp termination sleeve connectors.





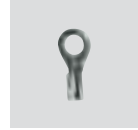
Crimping Tools & Accessories

Thomas&Betts

Non-insulated Ratchet Crimping Tool

Part No: ERG4002

- T&B Comfort Crimp® Compression Tool with Shure Stake® mechanism
- For installing non-insulated terminals, disconnects, and splices 22-10 GA



Thomas&Betts

Insulated Ratchet Crimping Tool

Part No: ERG4001

- T&B Comfort Crimp® Compression Tool with Shure Stake® mechanism
- For installing insulated terminals, disconnects, and splices 22-10 GA



HYTOOL™

Full Cycle Ratchet Hand Tool 8-1 AWG

Part No: Y1MRTC

- Molded comfort grips reduce fatigue during continuous use
- Ratchet mechanism assures a complete crimp every time
- Emergency release mechanism allows tool to be opened in case of mistaken die choice or to reposition tool
- Rotating die is color coded to match color coding on connectors
- Die index embossment allows permanent inspectability of installed connectors to ensure consistently reliable and dependable connections
- Weight: 13.5 oz, Length: 9-3/4", Width: .73"
- Crimp Range: 8-1 AWG
- 5-year limited warranty



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Deutsch HD Contact Removal Tools			
Color	AWG	Contact Size	Part No.
Red	22-20	20	D04112402005
Blue	18-16	16	D04113101605
Green	16-14	16	D04112911405
Yellow	14-12	12	D114010
White	6	4	DEU0006



D04112402005



D04113101605



D04112911405



D114010



DEU0006



Insertion Extraction Tool

Part No: AP910672

Contact size 20. Wire size 22-20 AWG / **M81969/1-02**



Insertion Extraction Tool

Part No: AP910663

Contact size 16. Wire size 20-16 AWG / **M81969/1-03** (comes with plastic storage tube)



Insertion Extraction Tool

Part No: AP910671

Contact size 22D. Wire size 26-22 AWG / **M81969/1-04**



Insertion Extraction Tool

Part No: AP910661

Contact size 22. Wire size 26-22 AWG / **M81969/1-01** (comes with plastic storage tube)



Insertion Extraction Tool

Part No: AP910664

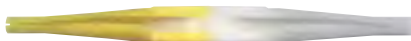
Contact size 20. Wire size 22-20 AWG (comes with plastic storage tube)



Insertion Extraction Tool

Part No: M819691403

Installs and removes size 16 pin/socket contacts for connector series MIL-C-26482, MIL-C-81703, MIL-C-83723, MIL-C-38999, MIL-T-81714, MIL-C-5015
M81969/14-03



Insertion Extraction Tool

Part No: M819691404

Installs and removes size 12 pin/socket contacts for connector series MIL-C-26482, MIL-C-81703/
M81969/14-04



Insertion Extraction Tool

Part No: M819691410

Installs and removes size 20 pin/socket contacts for connector series MIL-C-38999/ **M81969/14-10**



Insertion Extraction Tool

Part No: M819691411

Installs and removes size 20 pin/socket contacts for connector series MIL-C-26482, MIL-C-81703, MIL-C-83723, MIL-T-81714, MIL-C-5015/ **M81969/14-11**



Insertion Extraction Tool

Part No: M819691401

Installs and removes size 22D/M pin/socket contacts for connector series MIL-C-26482, MIL-C-81703, MIL-C-83723, MIL-C-38999, MIL-T-81714/ **M81969/14-01**



Insertion Extraction Tool

Part No: M819691402

Installs and removes size 20 pin/socket contacts for connector series MIL-C-26482, MIL-C-81703, MIL-C-83723, MIL-C-38999, MIL-T-81714, MIL-C-5015/
M81969/14-02



Wire Strippers / Heat Guns

Wire Strippers

Wire Strippers

Part No: HTL0018



- Self adjusts to wire gauge from 10–24 AWG
- Adjustable stopper controls the length of your strip
- Swivel knob micro-adjusts for smaller gauges – 20 AWG and smaller
- Crimping nests for 10–22 AWG insulated and non-insulated terminals along with ignition terminals
- Wire cutter behind the pivot point
- Pro-Touch™ grips provide maximum comfort and reduces hand fatigue



T-Stripper®

Part No: 215

Wire stripper and cutter. 20–12 AWG stranded.



Wire Stripper

Part No: HS2

With automatic stops for 18–10 AWG wire.



Wire Stripper/Cutter

Part No: 1046

16–26 AWG stranded



Wire Stripper/Cutter

Part No: 1049

8–16 AWG stranded

Replacement Blades for HS2

Gauge	Part No.
18–10	L4420
22–10	L4421
26–16	L4994

Heat Guns



Standard-Duty Heat Gun

Part No: HSG5

(Replacement Nozzle Assortment #97510)



Heavy-Duty Heat Gun

Part No: HSG7

Includes air deflector nozzles. (Two settings 450°/1,000°F)



Soldering Gun

Part No: HST260

260/200 WATTS (Two settings 900°/1,100°F)

Techflex Hand held hot knife

Part No: HTL0019

- Perfect for individual projects or small volume production
- Large knife blade heats up quickly and easily cuts and seals most grades of braided sleeving
- Handle can also be used as a soldering gun with the appropriate tips
- 110 volt operation
- Works great with F6 Loom



Butane Heat Power Torch

Part No: HSG3

Ideal for heating solder splices, Solderlinks and heat shrink tubing. Provides approximately 70 minutes of fuel and the tank is refillable. Butane not included.



Refill Butane Cartridges

Part No: AS01





Cable Tie Application Tool

Part No: GS2B

With adjustable tension settings designed for quick multiple applications. Install cable tie widths from 3/32" to 3/16"



Ergonomic Cable Tie Application Tool

Part No: GS2C

With pre-set tension adjustments for cable ties 3/32"–3/16" width.

Mil. Std. MS90387-1



Thomas & Betts Cable Tie Tension Tool

Part No: WT1

With pre-set tension for cable ties 3/32" (.094) –3/16" (.187) width.



Cable Tie Tool

Part No: WT2-TB

Light duty hand tool for nylon cable ties 50–120 lbs, .184–.301 cable tie width.



Hand Operated Rivet Tool

Part No: AA44

Precision die cast, high strength aluminum alloy body; drop forged carbon steel upper handle; and thick cushion-molded vinyl grips for comfort. Sets up to 3/16" steel rivets and comes with four mounted nose pieces (3/32", 1/8", 5/32 and 3/16") and a service wrench.



Rivet Nut Setter™

Part No: TS39300

Installs all sizes of Klik Poly-Nuts and Klik Rivet-Nuts up to 1/4" and 6mm steel. Not recommended for 5/16" and 3/8" steel rivet nuts.



Rivet Nut Setter – Large

Part No: M34604

For installing larger size rivet nuts. Will install #10–24 through 3/8"–16, and 5mm–10mm. Threaded inserts in aluminum or steel. Supplied with 1/4"–20 mandrel and nosepiece only.

1. The Klik Rivet Nut™ is threaded onto the mandrel of the tool and placed into a predrilled hole.
2. As the tool is used, the threaded portion of the insert is drawn toward the tool, collapsing the unthreaded section radially outward, causing a flange to form on the blind side of the work.
3. The tool is withdrawn, leaving captive threads ready to receive a separate component and attaching bolt and screw.

TS39300 Rivet Nut Tooling		
Thread Size	Part No.	
	Mandrel	Nosepiece
#6 – 32	TS39354	TS39361
#8 – 32	TS39355*	TS39362*
#10 – 24	TS39356*	TS39363*
#10 – 32	TS39357*	TS39363*
1/4" – 20	TS39358	TS39379
5/16" – 18	TS39359	not required
3/8" – 16	TS39360	not required
M4 – .70	TS39366	TS39374
M5 – .80	TS39367	TS39373
M6 – 1.00	TS39368	TS39375
M8 – 1.25	TS39369	not required

*Mandrels & Nosepieces included with TS39300.



Mandrel



Nosepiece

M34604 Rivet Nut Tooling		
Thread Size	Part No.	
	Mandrel	Nosepiece
#10 – 24	M95635	M95645
#10 – 32	M95636	M95646
1/4" – 20	M95637	M95647
5/16" – 18	M95638	M95648
3/8" – 16	M95639	M95649



Pliers



Standard Diagonal-Cutting Pliers
Part No: PD618
6-1/8" Overall length, tapered nose.



Heavy-Duty Diagonal-Cutting Pliers
Part No: PDHD618
6-1/8" Overall length, all purpose.



Diagonal Cutting Pliers
Part No: HTL0016

- Angle head for easy work in confined areas
- High-leverage design cuts screws, nails, ACSR wire and most hardened wire
- Dual material handle grips provide a comfortable firm grip and is durable
- O.A.L. 8-1/8"



Standard Long-Nose Pliers Side-Cutting

OAL (in)	Part No.
6-5/8	PLN658
7-3/16	PLN7316



New England Style (Linesman) Side-Cutting Pliers



OAL (in)	Part No.
8-11/16	PNE81116
9-3/8	PNE938

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Safety Wire Pliers
Part No: SWP9



Convertible Snap Ring Pliers
Part No: RTR1C

One pair replaces two for internal or external use. Includes four interchangeable tips for ease in moving from one project to the next. ProTouch™ grips provide extra comfort for less hand fatigue.



10" Pump Pliers
Part No: PPP10



Long Nose Pliers
Part No: HRP

Long nose pliers with extra long reach.
Overall length: 11"



MADE IN USA

Loom Applicator

For use with Split Loom & F6 Loom.

Max. Bundle Dia. (in)	Mfg. Code on Tool	Part No.
0.24	CAT05	CAT1
0.37	CAT08	CAT2
0.63	CAT15	CAT3
0.79	CAT20	CAT4
0.96	CAT25	CAT5
1.22	CAT32	CAT6



Professional Tire Gauges	
Description	Part No.
Straight/Angled heavy-duty service gauge, metal slide bar calibrated from 20 – 120 PSI in 2 lbs. increments.	TPG2
Dual-foot chuck tire gauge, 4-sided nylon indicator bar calibrated from 10 – 150 PSI in 2 lbs. increments.	TPG6

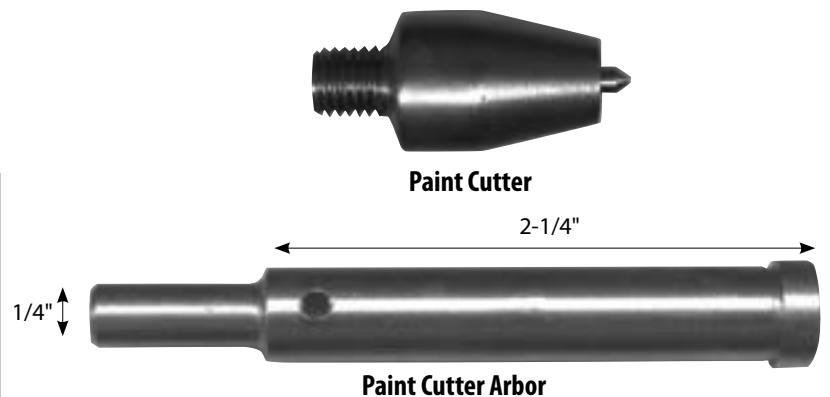


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Paint Cutter

Prevents paint chipping. Cutter is used to cut a ring in the paint around the head of the screw.

Description	Size	Part No.
#4 Paint Cutter	0.254	BDPC4
#6 Paint Cutter	0.28	BDPC6
#8 Paint Cutter	0.302	BDPC8
#10 Paint Cutter	0.36	BDPC10
#14 Paint Cutter	0.462	BDPC14
Paint Cutter Arbor		BDPCA





Screw & Nut Drivers



Keystone



Cabinet



Phillips



Robertson®
Square Drive



TORX®



Phillips Profilated Tip		
Point Size	Overall Length (in)	Part No.
1	6-3/4	SDP1
2	8-5/16	SDP28
2	3-7/16	SDSP23*
3	11	SDP3

*Stubby



Phillips Insulated		
Point Size	Overall Length (in)	Part No.
1	6-3/4	SDIP1
2	8-5/16	SDIP2
3	11	SDIP3



Slotted Cabinet Tip		
Blade Width (in)	Overall Length (in)	Part No.
3/16	6-3/4	SDS3166
3/16	7-3/4	SDS3167
3/16	9-3/4	SDS3169
3/16	11-3/4	SDS31611
3/16	13-3/4	SDS31613



Slotted Keystone Tip		
Blade Width (in)	Overall Length (in)	Part No.
7/32	6-3/4	SDS732
1/4	8-11/32	SDS148
1/4	3-7/16	SDS143*
5/16	10-15/16	SDS516

*Stubby



Slotted Insulated		
Blade Width (in)	Overall Length (in)	Part No.
3/16	7-3/4	SDIS3167
3/16	10-3/4	SDIS3169
1/4	8-11/32	SDIS14
5/16	10-15/16	SDIS516



One-Way Tamper Proof		
Point Size	Fits Screw Size	Part No.
6-8	6, 8	HT669DC
10-12	10,12	HT669FE
14	14	HT669G

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Spanner Head		
Point Size	Fits Screw Size	Part No.
4	4	HT67B
6	6	HT67C
8	8	HT67D
10	10	HT67E
12	12	HT67F
14	14	HT67G



Robertson Square Drive		
Point Size	Fits Screw Size	Part No.
1	6	SDSQ1
2	8, 10	SDSQ2
3	12, 14	SDSQ3

MADE IN USA



Nut Driver	
Hex Size (in)	Part No.
3/16	ND316
1/4	ND14
5/16	ND516
11/32	ND1132
3/8	ND38
7/16	ND716
1/2	ND12
9/16	ND916
5/8	ND58

MADE IN USA



Metric Nut Driver	
Hex Size (mm)	Part No.
4	NDM4
4.5	NDM45
5	NDM5
6	NDM6
7	NDM7
8	NDM8
9	NDM9
10	NDM10
11	NDM11

MADE IN USA



TORX Drive	
Point Size	Part No.
T-15	SDTX15
T-20	SDTX20
T-25	SDTX25
T-27	SDTX27
T-30	SDTX30

MADE IN USA



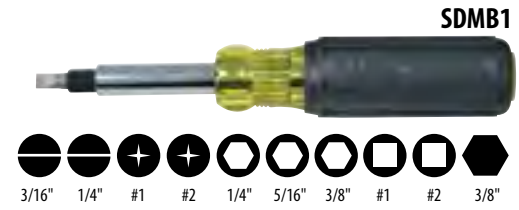
Screw & Nut Drivers

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Heavy-Duty Multi-Bit Screwdriver/Nut Driver

Part No: SDMB1

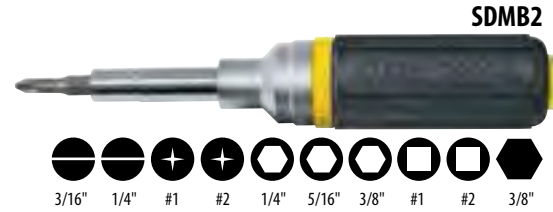
- Shaft holds 6 universal tips; converts to 3 hex driver sizes and 1 hex driver
- Strong, heat-treated nut drivers for improved torque
- Shaft length 2.95", OAL 7.9"



Ratcheting Multi-Bit Screwdriver/Nut Driver

Part No: SDMB2

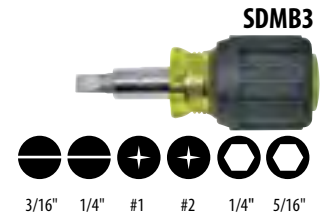
- Shaft holds 6 universal tips; converts to 3 hex driver sizes and 1 nut driver
- Strong, heat-treated nut drivers for improved torque
- 3-way ratcheting mechanism for forward, reverse and locked positions
- Shaft length 2.95", OAL 8.0"



Stubby Multi-Bit Screwdriver/Nut Driver

Part No: SDMB3

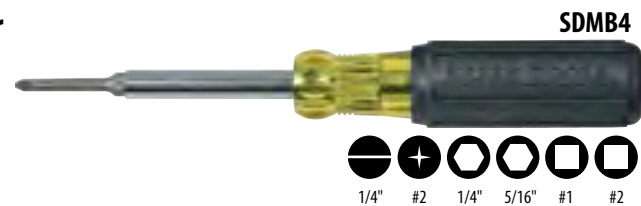
- Shaft holds 4 universal tips and converts to 2 hex driver sizes
- Shaft length 1.27", OAL 3.2"



Extended-Reach Multi-Bit Screwdriver/Nut Driver

Part No: SDMB4

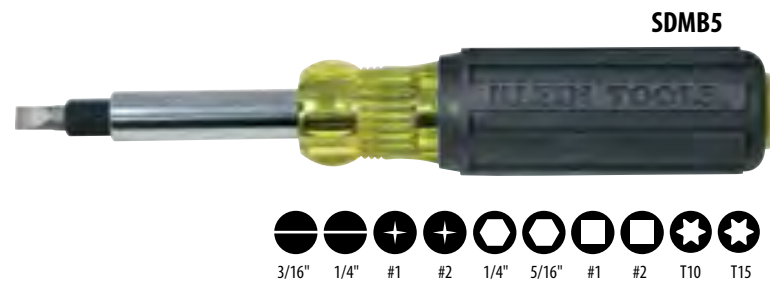
- Shaft holds 4 universal tips and converts to 2 hex driver sizes
- Extra-long shaft provides full reach of 4" standard-blade screwdriver
- Small diameter shaft for comfortable grip and quick, easy turning
- Shaft length 4.11", OAL 9.1"



10 in 1 Multi-Bit Screwdriver/Nut Driver

Part No: SDMB5

- Heavy duty
- Shaft holds 4 universal tips and converts to 2 nut driver sizes
- Shaft length 2.95", O.A.L. 7-1/4"
- Includes 3/16" & 1/4" Slotted, #1 & #2 Phillips, 1/4" & 5/16" Nut Driver, #1 & #2 Square and T10 & T15 TORX





Hex Keys



Hex Key Inch	
Size (mm)	Part No.
3/32	JTH6332
7/64	JTH6764
1/8	JTH618
9/64	JTH6964
5/32	JTH6532
3/16	JTH6316
7/32	JTH6732
1/4	JTH614
5/16	JTH6516
3/8	JTH638
10 Pc. Set (1 each of above with metal stand)	JTH6K10



Hex Key Metric	
Size (mm)	Part No.
2	JTHM62
2.5	JTHM62.5
3	JTHM63
4	JTHM64
5	JTHM65
6	JTHM66
8	JTHM68
10	JTHM610
8 Pc. Set (1 each of above with metal stand)	JTHM6K8

Ball-End Hex Key Set – Inch

Part No: BLK12



- 12 pieces
- Comes in a heavy-duty plastic index
- Individual keys also available



Size (in)	Individual Part No.
.050	BL2
1/16	BL4
5/64	BL5
3/32	BL6
7/64	BL7
1/8	BL8
9/64	BL9
5/32	BL10
3/16	BL12
7/32	BL14
1/4	BL16
5/16	BL20
12 Piece Set	BLK12

Ball-End Hex Key Set – Metric

Part No: BLMK10



- 9 pieces
- Comes in a heavy-duty plastic index
- Individual keys also available

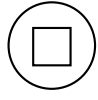


Size (mm)	Individual Part No.
1.5	BLM15
2	BLM2
2.5	BLM25
3	BLM3
4	BLM4
5	BLM5
6	BLM6
8	BLM8
10	BLM10
9 Piece Set	BLMK10



Insert Bits

Head Styles



ROBERTSON



PHILLIPS



SLOTTED



TORQ-SET



TORX



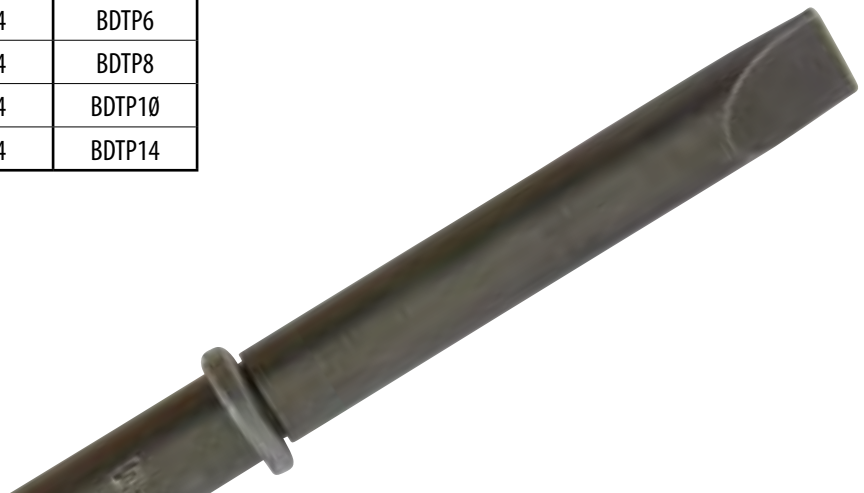
TRI-WING



HI-TORQUE

**MADE IN
USA**

Power Bits			
Description	Point Size	Length (in)	Part No.
Slotted	2F-3R	1-15/16	BD0SD2
		3-1/2	BD0SD3
		6	BD0SD6
	4F-5R	1-15/16	BD1SD2
		3-1/2	BD1SD3
		6	BD1SD6
	5F-6R	1-15/16	BD2SD2
		3-1/2	BD2SD3
		6	BD2SD6
	6F-8R	1-15/16	BD3SD2
		3-1/2	BD3SD3
		6	BD3SD6
8F-10R	1-15/16	BD4SD2	
	3-1/2	BD4SD3	
	6	BD4SD6	
Slotted with Ring	5F-6R	3-3/4	BD2SD
	6F-8R	3-3/4	BD3SD
	8F-10R	3-3/4	BD4SD
Torq-Set	0	1-1/4	BDTP0
	1	1-1/4	BDTP1
	2	1-1/4	BDTP2
	3	1-1/4	BDTP3
	4	1-1/4	BDTP4
	5	1-1/4	BDTP5
	6	1-1/4	BDTP6
	8	1-1/4	BDTP8
	10	1-1/4	BDTP10
	1/4"	1-1/4	BDTP14





**MADE IN
USA**

Power Bits			
Description	Point Size	Length (in)	Part No.
Phillips	1	1-15/16	BD1PD2
		3-1/2	BD1PD3
		6	BD1PD6
	2	1-15/16	BD2PD2
		3-1/2	BD2PD3
		6	BD2PD6
	3	1-15/16	BD3PD2
		3-1/2	BD3PD3
		6	BD3PD6
Phillips-ACR*	1	1-15/16	BD1PD
	2	1-15/16	BD2PD
	3	1-15/16	BD3PD
Tri-Wing	0	1-1/4	BDWP0
	1	1-1/4	BDWP1
	2	1-1/4	BDWP2
	3	1-1/4	BDWP3
	4	1-1/4	BDWP4
	5	1-1/4	BDWP5
	6	1-1/4	BDWP6
	7	1-1/4	BDWP7
Robertson Sq	0	1-15/16	BDRP0
	1	1-15/16	BDRP1
	2	1-15/16	BDRP2
	3	1-15-16	BDRP3
	1	3-1/2	BDRP13
	2	3-1/2	BDRP23
	3	3-1/2	BDRP33



*ACR, Anti-Camout Ribs



*Apex® Phillips head hex insert bits with anti-camout ribs. The Phillips head screw drive is purposely designed to cam out when the screw stalls, preventing the fastener from damaging the work or the head. Painted, coated or corroded fasteners can present special problems. Apex® ACR insert bits' special wing-face ribs grip screw recesses to reduce stripping and cam-out which can result in damage to the surrounding workpiece.



Insert Bits

**MADE IN
USA**

Hex Insert Bits



Hi-Torque Driver			
Recess	Sq. Drive (in)	Fits Screw Sizes	Part No.
1	1/4	3,4,5,6	BD1HT
2	1/4	8	BD2HT
3	1/4	10	BD3HT
4	1/4	1/4	BD4HT
5	3/8	5/16	BD5HT
6	3/8	3/8	BD6HT
7	1/2	7/16	BD7HT
8	1/2	1/2	BD8HT



Phillips – ACR	
Point Size	Part No.
1	BD1PA
2	BD2PA
3	BD3PA

*ACR, Anti-Camout Ribs



Phillips	
Point Size	Part No.
4	BD4P



Tri-Wing	
Point Size	Part No.
0	BDW0
1	BDW1
2	BDW2
3	BDW3
4	BDW4
5	BDW5
6	BDW6
7	BDW7
8	BDW8



Torx Drive	
Point Size	Part No.
T-5	BD5TX
T-6	BD6TX
T-7	BD7TX
T-8	BD8TX
T-9	BD9TX
T-10	BD10TX
T-15	BD15TX
T-20	BD20TX
T-25	BD25TX
T-27	BD27TX
T-30	BD30TX
T-40	BD40TX
T-50	BD50TX



Phillips Ltd. Clearance	
Point Size	Part No.
1	BD1PR
2	BD2PR
3	BD3PR



Phillips Ltd. Clearance – ACR	
Point Size	Part No.
1	BD1PRA
2	BD2PRA
3	BD3PRA

*ACR, Anti-Camout Ribs

Tamper Resistant Bits for TORX® Pin-In Screws

Screw Size	Bit Size	Part No.
#4	T-8	HTL0009
#6	T-10	HTL0010
#8	T-15	HTL0011
#10	T-25	HTL0012
1/4	T-27	HTL0013
5/16	T-40	HTL0014
3/8	T-45	HTL0015





Torq-Set	
Point Size	Part No.
0	BDT0
1	BDT1
2	BDT2
3	BDT3
4	BDT4
5	BDT5
6	BDT6
8	BDT8
10	BDT10
1/4	BDT514



Torq-Set – ACR	
Point Size	Part No.
2	BDT2A
3	BDT3A
4	BDT4A
5	BDT5A
6	BDT6A
8	BDT8A
10	BDT10A
1/4"	BDT514A

*ACR, Anti-Camout Ribs



Slotted	
Point Size	Part No.
4F-5R	BD15B
6F-8R	BD25B
8F-10R	BD35B
10F-12R	BD45B
12F-14R	BD55B



Robertson	
Point Size	Part No.
0	BDR0
1	BDR1
2	BDR2
3	BDR3

Hex Insert Bits	
Hex Head – Fractional	
Point Size	Part No.
3/32	BDHB332
1/8	BDHB18
9/64	BDHB964
5/32	BDHB532
3/16	BDHB316
7/32	BDHB732
1/4	BDHB14
5/16	BDHB516
3/8	BDHB38



Quick Change Chuck Insert	
Description	Part No.
Chuck Insert	DBXC

Magnetic Nutsetters

- For use with sheet metal screws and other hex head fasteners
- Overall length: 11"
- Standard six-point design
- NEW inch and metric sizes



Magnetic Nutsetters – Inch	
Hex Socket Size	Part No.
1/4"	MNS4
5/16"	MNS5
3/8"	MNS6
7/16"	MNS7
1/2"	MNS8
9/16"	MNS9

1/4" Hex Adapters



Socket Adapter	
Size (Sq. in.)	Part No.
1/4	BDS14B
3/8	BDS38B
1/2	BDS12B



Insert Bit Holder	
Size (Sq. in.)	Part No.
1/4	BDH14S14
3/8	BDH38S14



BD14HD
Insert Bit Holder

Magnetic Nutsetters – Metric	
Hex Socket Size	Part No.
M6	MNS6M
M8	MNS8M
M10	MNS10M



Grease Guns & Accessories

Grease Guns & Hose Assemblies



HGG A2



HGG A4



HGG A6



Assembly with
Narrow Coupler
HGG A1: 18"



Assembly with
Std. Coupler
HGG A3: 18"



Assembly
HGG A5: 12"

For Hydraulic Fittings:		
Assembly	Coupler	Hose
HGG A1	HGG A2	HGG A12
HGG A3	HGG A4	HGG A12

For Pin Type Fittings:		
Assembly	Coupler	Hose
HGG A5	HGG A6	HGG A11



Assembly
HGG A7: 12"



HGG A8



HGG A13

For Standard Button Head Fittings:			
Assembly	Coupler	Hose	Swivel
HGG A7	HGG A8	HGG A11	HGG A13



HGG1 Grease Gun
Heavy-Duty



Assembly
HGG A9: 18"



HGG A10



HGG A13

For Giant Button Head Fittings:			
Assembly	Coupler	Hose	Swivel
HGG A9	HGG A10	HGG A12	HGG A13



HGG2 Grease Gun
Heavy-Duty with Flexhose



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On-The-Go Pouch

Part No: STG0100

Typical usages:

- Use to tote parts & tools to job sites
- Emergency Repairs – pack as a “go bag” for specific equipment repairs
- Handy tote for vehicles – certificates, small repair tools & parts, flashlight, gloves, safety glasses
- Great for bench technicians’ tools & parts
- Segregate parts & tools per job or machine

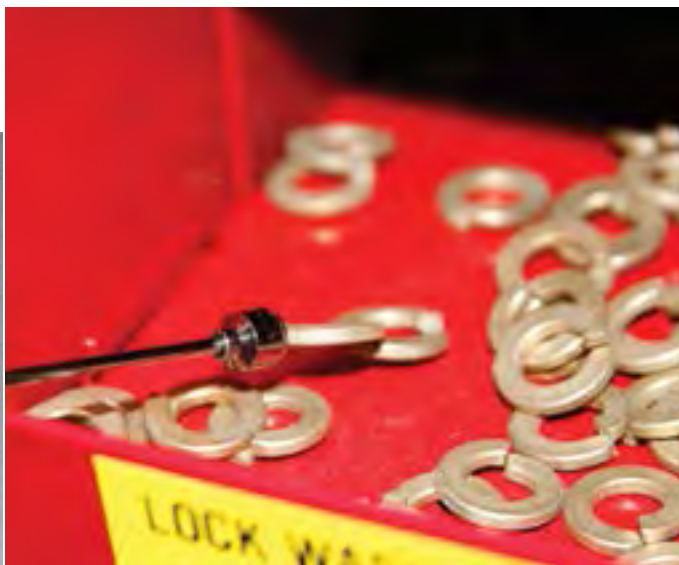
Specs:

- Made of heavy canvas material
- Sturdy zipper enclosure
- Opens to 9" x 11-1/2" approx.
- Loop for easy hanging & carrying



Tools not included.

A multi-purpose tote pouch.



Telescoping Magnetic Pocket Pickup Tools



Part No: MP-1

Carries a maximum of 5lbs, extends to 23.5 inches, collapses to 5.25 inches



Part No: MP-0

Carries a maximum of 2 lbs, extends to 22.75 inches, collapses to 5 inches



Heavy Duty Magnetic Clean-up Tool

Part No: HTL0001

- The powerful rare earth magnet quickly and safely picks up metal chips, fasteners, etc.
- Use to clean-up most any ferrous metal objects like drilling and cutting chips, nuts, bolts, etc.
- Wave over metal debris and release by pulling knob



Tool & Die Kits

Ratchet Crimping Tool Kit & Dies

- Ratchet tool provides consistent crimp force regardless of use
- Long handles make it easier to crimp (less force required)
- Ergonomic design to initiate the crimp process
- Easy to use and understand release mechanism
- Black case with clear plastic window

Description	AWG	Part No.
Ratchet Crimp Tool & Die Kit	–	RT822KIT
Tool & Die Case	–	RT822CASE
Ratchet Crimping Tool	22 – 8	RT822
Crimp Die - Closed End Splice	20 – 10	RT822DIE2
Crimp Die - Open Barrel	20 – 10	RT822DIE3
Crimp Die - Open Barrel with Locater	20 – 10	RT822DIE3L
Crimp Die - Insulated Double Crimp	26 – 10	RT822DIE4
Crimp Die - Insulated Flag	22 – 14	RT822DIE5



**Ratchet Crimping Tool
RT822**



**Closed End Splice
RT822DIE2**



**Open Barrel
RT822DIE3**



**Open Barrel with Locater
RT822DIE3L**



**Insulated Double Crimp
RT822DIE4**



**Insulated Flag
RT822DIE5**



**Tool & Die Case
RT822CASE**



TAPES

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Professional Grade Vinyl Electrical Tape



- 3M Scotch Super 33+
- The Benchmark of vinyl electrical tapes – “the yellow core tape”
- Highly conformable, super stretchy in all weather applications
- Resists UV rays, abrasion, alkalies & acids
- Primary insulation for splices up to 600V & protective jacketing
- 7 mil thick
- UL/CSA made in the USA
- Max. temp. 221°F (105°C)
- Sleeve of 10 rolls, rolls in protective reusable case

Width (in)	Length (ft)	Part No.
		10 Pack
3/4	66	PVT66A
1-1/2	44	PVT66A112

YouTube See YouTube: 3M™ Super 33+ Electrical Tape (Handyman Demos), 3M™ Motor Lead Pigtail Splice with Scotch® Linerless Rubber Splicing Varnish Cambric Tape and 33+ Electrical Tape



Color Professional Grade Vinyl Electrical Tape



- 3M Scotch 35
- Nine fade resistant colors
- Highly conformable, super stretchy in all weather applications
- Excellent insulating properties
- Resists UV rays, abrasion, corrosion, alkalies & acids.
- Phase identification, marking, harnessing.
- 7 mil thick
- UL CSA
- 600V
- Max. temp. 221°F (105°C)
- Single rolls & sleeves of 10, rolls in protective reusable case

Width (in)	Length (ft)	Color	Part No.	
			Single Pack	10 Pack
3/4	66	Blue	PVT66BE	PVT66BEX
		Brown	PVT66BN	PVT66BNX
		Gray	PVT66GY	PVT66GYX
		Green	PVT66GN	PVT66GNX
		Orange	PVT66OE	PVT66OEX
		Red	PVT66RD	PVT66RDX
		Violet	PVT66VE	PVT66VEX
		White	PVT66WE	PVT66WEX
		Yellow	PVT66YW	PVT66YWX



Tapes

Heavy Duty Professional Grade Vinyl Electrical Tape

- 3M Super 88
- All weather, heavy duty, professional use
- The thicker version of Scotch 33+
- 8.5 mil thick for fast build-up
- Highly conformable, super stretchy in all weather applications
- Resists UV rays, abrasion, alkalies & acids
- Primary insulation for splices up to 600V & protective jacketing
- UL/CSA made in the USA
- **MIL-I-24391**
- Max. temp. 221°F (105°C)
- Sleeve of 10 rolls, rolls in protective reusable case

Width (in)	Length (ft)	Part No.
		10 Pack
3/4	66	PVT88

MADE IN USA

3M



Vinyl Electrical Tape – 7.0 Mil

MADE IN USA

3M

- General purpose electrical tape
- Protective, jacketing, bundling
- Automotive, bus and heavy equipment use
- 7 mil thick
- UL/CSA
- Max. temp. 176°F (80°C)
- Sleeve of 12 rolls

Width (in)	Length (ft)	Part No.
		12 Pack
3/4	66	PVT66T



Vinyl Electrical Tape – 7.5 Mil

- General purpose electrical tape
- Protective, jacketing, bundling
- Automotive, bus and heavy equipment use
- 7.5 mil thick
- UL/CSA
- Max. temp. 176°F (80°C)
- Sleeve of 12 rolls

Width (in)	Length (ft)	Part No.
		12 Pack
3/4	66	PVT66U





Glass Cloth Tape



- 3M Scotch 27 Class B – max. temp 266°F (130°C)
- 3M Scotch 69 Class H – max. temp 356°F (180°C)
- Woven insulating glass cloth tape
- High mechanical strength, thermosetting adhesive
- Heat-stable insulation for furnace & oven controls, motor leads & switches
- 3M 27: 7 mil, 600V UR, CSA
- 3M 69: 7.5 mil, MIL-I-19166C, 600V UL, CSA

Width (in)	Length (ft)	Class	Item	Part No.
3/4	66	B	Scotch 27	GC66
		H	Scotch 69	PVT69HT

See YouTube: 3M™ Motor Lead Pigtail Splice with Scotch® Linerless Rubber Splicing Varnish Cambric Tape and Electrical Tape



Varnish Cambric Tape



- 3M 2510 without adhesive, 7 mil thick
- 3M 2520 with adhesive, 8 mil thick
- Yellow, varnished cotton cloth
- With or without adhesive
- Sometimes used as an underwrap for rubber tape
- Insulate bus bars, motor leads (for re-entry) service drops
- Max. temp. 220°F (105°C)

Width (in)	Length	3M 2510 without Adhesive	3M 2520 with Adhesive
3/4	60 ft	PVT2510T	PVT2520T
1-1/2	36 yd	PVT2510T112	PVT2520T112
2	36 yd	PVT2510T2	PVT2520T2

Reflective Marking Tape

- Also known as Conspicuity Tape
- Require on trailers over 80" wide & over 10,000 pounds GVWR
- High-brightness reflective material rated at 600 candle power



Roll	Colors	Part No.
2" × 150'	Red/White	TLP4651

Strip Kits	Colors	No. of Strips/ Kit	Part No.
2" × 18"	Red/White	8	TLP465K
		4	TLP4654K





Tapes

Linerless Rubber Tape



- 3M 130C
- High-Voltage insulating tape
- 30 mil thick
- Max temp. 266°F (130°C)
- Thermally conductive, self-bonding
- Primary electrical insulation for splicing through 69kV
- Typically overwrapped with vinyl electrical tape &/or friction tape



Width (in)	Length (ft)	Part No.
3/4	30	LRT30
1		LRT301
1-1/2		LRT30112
2		LRT302

See YouTube: 3M™ Motor Lead Pigtail Splice with Scotch® Linerless Rubber Splicing Varnish Cambric Tape and 33+ Electrical Tape

Rubber Tape

- Similar to Linerless Rubber Tape but uses a liner
- Blue liner
- 30 mil thick
- 490 V per mil



Width (in)	Length (ft)	Part No.
3/4	22	RT22

Friction Tape

Friction tape is one of the oldest known electrical tapes. It was designed to replace the cotton jacketing used in early cable and wire assemblies. It is a simple construction of cotton cloth impregnated with a tacky, rubber compound that provides good adhesion to all types of surfaces. This tape provide excellent protection against abrasion and penetration of wires, cables and splices.

- Abrasion protection cover for splices, harnesses
- 15 mil thick
- Dielectric strength 1,000 V
- Tensile strength 40 lb/in



Width (in)	Length (ft)	Part No.
3/4	60	FT8



Silicone Self-Fusing Tape



- Also known as F4 tape
- Stretches 300% – activates by stretching, fuses to itself for a water tight bond
- -65° to 500°F working temp.
- Resists UV, oils, salt, heat & chemicals
- Insulates 8,000 volts per layer
- Stripe aids in wrapping – always overwrap by 1/2 width of tape (hide the stripe)
- MIL-I-46852/A-A-59163, UL
- 12 mil

Width (in)	Length (ft)	Color	Part No.
1	15	Black w/ white stripe	AP16080364
1	36	Red w/blue stripe	AP6080361
		Clear w/blue stripe	AP16080362
		Gray w/blue stripe	AP6080362
		Gray w/white stripe	AP6080364
1-1/4	36	Red w/green stripe	AP6080366



UL Class H rated version – 3M 70
356°F (180°C) max. temp.

Width (in)	Length (ft)	Color	Part No.
1	30	Gray (no stripe)	PVT70T



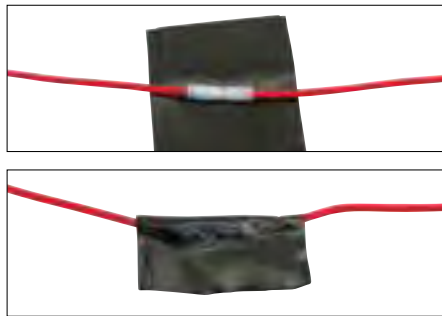
Rubber Self-Fusing Tape

- Also known as Cold Shrink Tape or Self-Amalgamating Tape
- Protects against corrosion on metal pipe work
- Stretches 300% – activates by stretching, fuses to itself for a water tight bond
- -40° to 121°F working temp.
- Tape is rubber based and not resistant to petroleum based solvents

Width (in)	Length (ft)	Size	Part No.
1	30	1" x 30'	CST130



Tapes



MADE IN USA

3M

Moisture Sealant Tape

- 3M Scotch 06147
- Self-fusing, rubber-based insulating mastic compounds laminated to a flexible, with an all-weather grade PVC backing
- Moisture seals electrical connections up to 600 volts. UL
- Protects against moisture, vibration, grime and abrasion
- 45 mil thick (7 mil vinyl/38 mil mastic)

Width (in)	Length (ft)	Part No.
2-1/2	10	06147



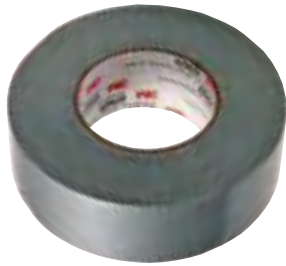
MADE IN USA

PTFE Thread Sealant Tape

- 100% Virgin PTFE
- Superior sealing of pipe threads up to 2" dia
- Good for air, steam water, hydraulic, oxygen, hydrogen, acids, solvents...
- -450° to 550° F
- FDA compliant 21 CFR 177.1550

	Standard	Heavy -Duty	Full Density
Pressure(psi)	2,000	10,000	10,000
Thickness (mil)	3.0 min	3.5 min	3.5 min
Density (g/cc)	.5 – .7	1.2 – 1.4	1.6
Specifications	MIL-T-27730A	MIL-T-27730A	MIL-T-27730A
	FDA 21 CFR 177.1550	FDA 21 CFR 177.1550	FDA 21 CFR 177.1550
	–	A-A-58092	A-A-58092
Color/Notes	White	White	Yellow
	–	–	AKA- Gas line tape

Width (in)	Length (in)	Part No.		
		Standard	Heavy -Duty	Full Density
1/2	520	TFT520S	TFT520	TFT520FD
3/4		TFT34520S	TFT34520	TFT34520FD



Duct Tape
DT260

Duct Tape **3M**

- Extra heavy duty duct tape
- Excellent adhesion, tears easily
- Moisture proofing, protecting
- 10.7 mil thick, max temp.
- 200°F (93°C), 1.88" × 60 yd



Transparent
Duct Tape
DT262

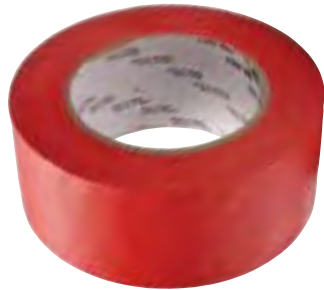
Transparent Duct Tape



- Ideal for repairs where appearance matters
- 1.88" × 20 yd



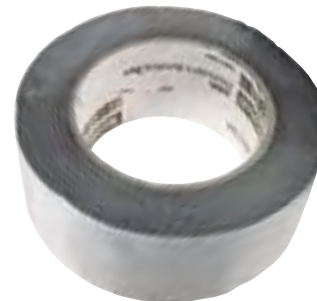
Description	Color	Material	Brand	Thickness mil.	Width (in)	Length (yd)	Max. Oper. Temp. F	Part No.
Very Heavy Duty	Silver	Polyethylene/Cloth	3M 6969	10.7	1.89	60	200	DT260
Med./Light Duty	Transparent	Polyethylene/Cloth	3M 2120-A	9		20	173	DT262



Red Bundling Tape
RDT

Red Bundling Tape **3M**

- Embossed vinyl film coated with rubber adhesive effective for color-coding, labeling and other light duty applications where easy unwind, easy tear and less adhesive transfer are important
- Clean removal up to 6 months
- 6.3 mil thick, 2" × 50 yd



Electrician's
Bundling Tape
DT2000

Electrician's Bundling Tape **3M**

- General purpose easy tear vinyl duct tape
- For general holding and bundling
- 6 mil thick 2" × 50 yd



Description	Color	Material	Brand	Thickness mil.	Width (in)	Length (yd)	Max. Oper. Temp. F	Part No.
Light Duty	Red	Vinyl	3M 3903	6.3	2	50	200	RDT
Light Duty	Silver	Vinyl	3M 2000	6			150	DT2000



Barricade Tape

- Long lasting solution for off-limits areas & crowd control
- 2 mil thick, durable polyethylene film
- Bright/visible



Width (in)	Length (ft)	Color	Legend	Part No
3	300	Yellow w/ black letters	Caution	TPE0006



Aluminum Foil Tape



- 3M 425
- Shiny, silver, dead-soft aluminum foil tape with transparent, pressure sensitive acrylic adhesive
- 5 mil, class "L" – low flammability
- Repair tears on truck trailers and aircraft
- General purpose heat reflector and heat dissipater
- Aircraft paint stripping masking
- High thermal conductivity to maximize efficiency of heating or cooling
- High heat reflectivity to protect temperature-sensitive materials against heat damage and hot spots
- Protect parts from flame damage
- Seal and protect sensitive surfaces from dust and moisture
- Outdoor weathering and UV resistant
- Moisture and solvent resistant
- Flame resistant
- Heat and light reflective

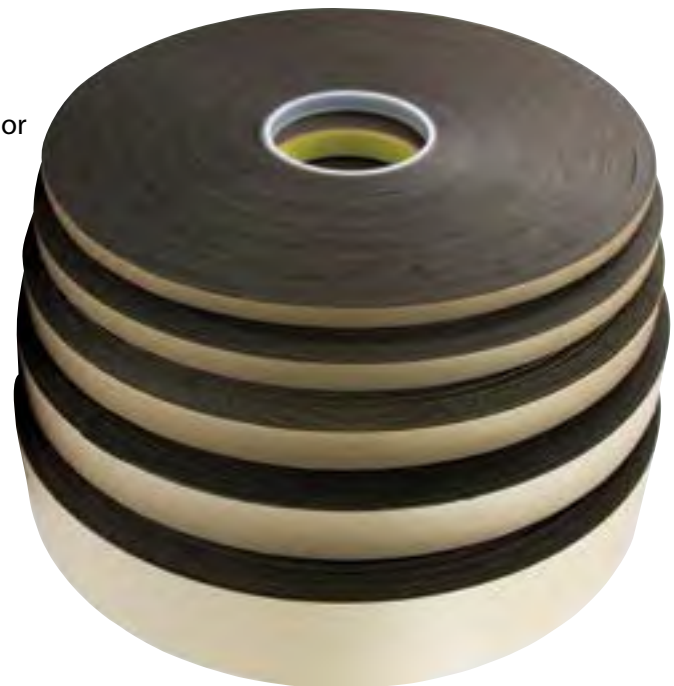


Width (in)	Length (yd)	Part No.
1/2	60	AFT112
3/4		AFT134
1		AFT1
2		AFT2

Double Coated Foam Tape



- 3M 4492
- Strong, two-sided foam tape for bonding rough or irregular surfaces
- 72 yard rolls
- Black foam
- 1/32" thick
- Closed cell, crosslinked, polyethylene foam
- Acrylic adhesive



Width (in)	Length (yd)	Part No.
3/8	60	TPE0001
1/2		TPE0002
3/4		TPE0003
1		TPE0004
2		TPE0005



Masking Tape - High Performance



- 3M Scotch 231
- High performance crepe paper masking tape
- Heavy thickness crepe paper backing for good paint lines
- Natural rubber adhesive for instant adhesion
- Easy tear, pressure sensitive
- Great for sealing, holding, bundling, identifying, paint masking and protecting

Width	Length	Part No.
18mm (3/4")	55m (60yd)	MT23134
24mm (1")		MT2311
36mm (1-1/2")		MT231112
48mm (2")		MT2312

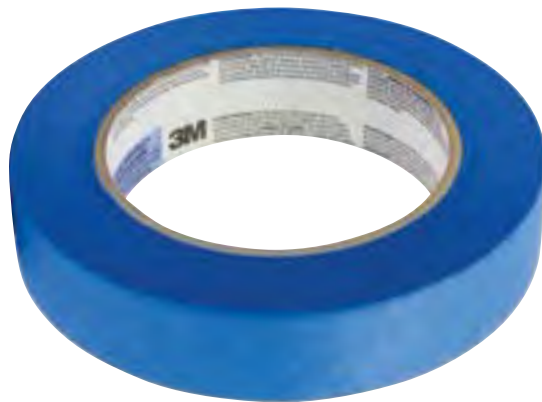


Masking Tape - General Purpose



- 3M Scotch 200

Width (in)	Length (yd)	Part No.
3/4	60	MT34
1		MT1
1-1/2		MT112
2		MT2



Blue Masking Tape



- 3M 2090 ScotchBlue
- Ideal for painted walls and trim, woodwork, glass and metal
- 14 day clean removal
- For interior and exterior use
- UV and sunlight-resistant
- Medium adhesion
- Also known as Long-Mask™ tape
- Flexible crepe backing for exceptional conformability

Width (in)	Length (yd)	Part No.
.94	60	TPE0007
1.88		TPE0008



Hook & Loop and Dual Lock



Dual Lock
DLM149BK

Dual Lock
DLM179CR

Hook & Loop
HL179B

Hook & Loop
HL149W



VELCRO® Hook & Loop



- 1" & 2" wide Velcro® brand hook & loop
- Sew-on and pressure sensitive adhesive back styles
- Color: Black
- Great for aircraft interiors

Sew-On

	Width (in)	Length (yd)	Part Number
Hook	1	25	HL1SHBK
	2		HL2SHBK
Loop	1	25	HL1SLBK
	2		HL2SLBK

Adhesive Back

	Width (in)	Length (yd)	Part Number
Hook	1	25	HL1AHBK
	2		HL2AHBK
Loop	1	25	HL1ALBK
	2		HL2ALBK



HL179B
(4.9 Yard Rolls)

Hook & Loop



3M™ Scotchmate™ hook and loop fasteners consists of two rolls of woven nylon, one with stiff hooks and the other with pliable loop . Bonds well to many surfaces including most glass, bare and painted metals, fiber glass, powder paint, painted wood and plastics. Available in 4.9 yard rolls (1 roll of each side) in 1 inch width. Color options are black and white.

Size	Color	Part No.
(2) 1" × 4.9 yd	White	HL149W
	Black	HL179B

Dual Lock (Black)



Contains 2 rolls of product. (1 roll of each side)

Size	Color	Part No.
(2) 1" × 4.9 yd	Black	DLM149BK



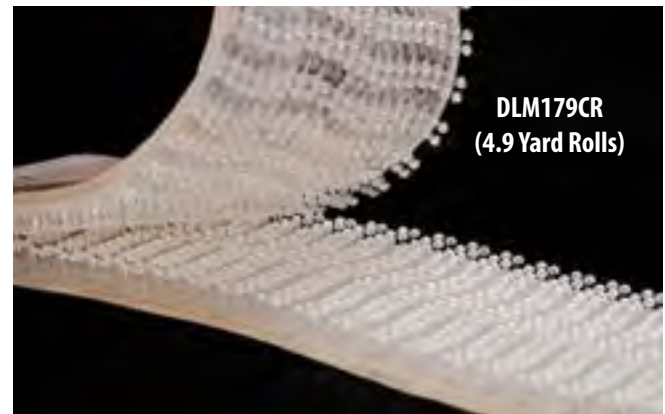
DLM149BK
(4.9 Yard Rolls)

Dual Lock (Clear)



High temp. Resistant tape. Contains 2 rolls of self-mating product.

Size	Color	Part No.
(2) 1" × 4.9 yd	Clear	DLM179CR



DLM179CR
(4.9 Yard Rolls)

Dual Lock™ (Clear)



Self-mating fastening system. Made to blend more aesthetically. Can be stapled to porous surfaces such as unsealed wood. 1" × 50 yd rolls.

Size	Color	Part No.
1" × 50 yd	Clear	DLR180CR



DLR150BK
(50 Yard Roll)

Dual Lock™ (Black)



Reclosable fastening system. General purpose adhesion to smooth surfaces. DLR150BK has 170 stems per sq. inch and DLR151BK has 400 stems per sq. inch. 1" × 50 yd rolls. Both part numbers are needed for complete fastening system.*

Stem/Sq. Inch	Size	Part No.	Mates To
170	1" × 50 yd	DLR150BK	DLR151BK
400		DLR151BK	DLR150BK*

*The stem DLR151 is also self-mating but may prove too strong for many applications.



ABRASIVES

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ScotchBrite

Roloc™ Surface Conditioning Discs



Removes light rust, oxides, coatings and prepares surfaces for painting.

Dia. (in)	Grade / Grit	Color	Max RPM	Part No.
1	Coarse	Brown	30,000	RDC1BN
	Medium	Maroon		RDC1MN
	Fine	Blue		RDC1BE
	Super Fine	Gray		RDC1GY
2	Coarse	Brown	25,000	RDC2BN
	Medium	Maroon		RDC2MN
	Fine	Blue		RDC2BE
	Super Fine	Gray		RDC2GY
3	Coarse	Brown	18,000	RDC3BN
	Medium	Maroon		RDC3MN
	Fine	Blue		RDC3BE
	Super Fine	Gray		RDC3GY
4	Coarse	Brown	12,000	RDC4BN
	Medium	Maroon		RDC4MN



Dia (in)	Grade / Grit*	Max RPM	Part No.
1-1/2	36+	24,000	RDA11236
	60+		RDA11260
	80+		RDA11280
2	36+	25,000	RDA236
	60+		RDA260
	80+		RDA280
3	36+	20,000	RDA336
	60+		RDA360
	80+		RDA380
4	36+	18,000	RDA436
	60+		RDA460
	80+		RDA480

Cubitron II Roloc™ Abrasive Discs

Cubitron is a 3M synthetic ceramic grain that is 2 to 3 times harder than aluminum oxide. Also it allows for faster grinding while lasting longer than standard aluminum oxide.



Check out the 3M YouTube site: www.youtube.com/3mabrasives

*36+ = cut rate of 24 or 36, with a finish of 50 grit
 60+ = cut rate of 50 or 60, with a finish of 80 grit
 80+ = cut rate of 60 or 80, with a finish of 80-100 grit
 The button color is white for all grades of the Cubitron II since the grades are clearly marked on the back of each disc.

Roloc™ Abrasive Discs



- Grind, deburr and blend all metals.
- Great for use on right angle grinders, straight air tools and flexible shaft grinders.
- Standard aluminum oxide sandpaper.

Dia. (in)	Grade / Grit	Color	Max RPM	Part No.
1	36	Brown Button	30,000	RDD136
	60	Orange Button		RDD160
	80	Yellow Button		RDD180
	120	White Button		RDD1120
2	24	Charcoal Button	25,000	RDD224
	36	Brown Button		RDD236
	80	Yellow Button		RDD280
	120	White Button		RDD2120
3	24	Charcoal Button	20,000	RDD324
	36	Brown Button		RDD336
	80	Yellow Button		RDD380
	120	White Button		RDD3120
	240	Green Button		RDD3240
4	36	Brown Button	12,000	RDD436
	80	Yellow Button		RDD480



Aluminum Oxide
Abrasive



Roloc™ Discs



Roloc™ Bristle Discs



- For cleaning, finishing and deburring.
- Removes adhesive, paint, discoloration, heavy oxides and surface contaminants.
- Deburr and blend.
- Clean and prepare surfaces before and after welding.



4.5" Disc*

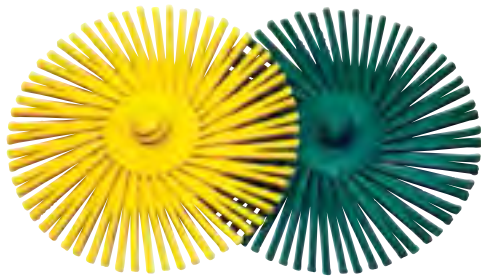
Disc Size (in)	Grade / Grit	Color	Max RPM	Part No.
1 × 5/8	50	Green	30,000	RDB1C
	80	Yellow		RDB1M
1 × 1/2	120	White		RDB1F12
2 × 5/8	50	Green	25,000	RDB2C
	80	Yellow		RDB2M
2 × 1/2	120	White		RDB2F12
2 × 5/8	120	White	RDB2F	
3 × 5/8	50	Green	15,000	RDB3C
	80	Yellow		RDB3M
3 × 1/2	120	White		RDB3F12
3 × 5/8	120	White	RDB3F	
4.5 × 5/8	50	Green	12,000	RDB412C*
	80	Yellow		RDB412M*

*No Disc Pad required on 4.5" Bristle Discs. For all others use with RDP_Disc Pads shown on page 549.

Roloc™ Radial Bristle Discs



For getting into tight corners and other small areas.



Dia. (in)	Grade / Grit	Color	Max RPM	Part No.
3	50	Green	25,000	RDR350
	80	Yellow		RDR380
	120	White		RDR3120

Use with RH114 holder on page 549.

Roloc™ Coating Removal Discs



Removes paint, rust and sealers.



Dia. (in)	Grade / Grit	Color	Max RPM	Part No.
2	SXCS	Black	18,000	SBRD2
3	SXCS		15,000	SBRD3
4	SXCS		12,000	SBRD4

Use with RDP_Disc Pads shown on page 549.



RDP Roloc™ Disc Pads



Dia. (in)	Hardness	Part No.
1	Medium	RDP1
1-1/2	Soft	RDP112S
	Medium	RDP112M
	Hard	RDP112
2	Soft	RDP2S
	Medium	RDP2M
	Hard	RDP2
	Extra-hard	RDP2EH
3	Soft	RDP3S
	Medium	RDP3M
	Hard	RDP3
	Extra-hard	RDP3EH
4	Medium	RDP4



Disc Pad
RDP_



Roloc™ Shaft
RDS14



Roloc™ Holder
RH114

Roloc™ Shaft and Roloc™ Holder

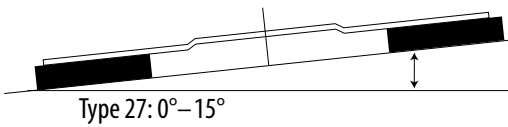
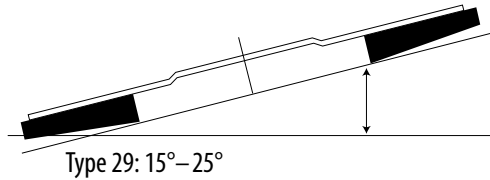


Description	Part No.
Shaft 1/4" (for Roloc™ disc pads)	RDS14
Roloc™ Holder (for radial bristle discs, Scotch-Brite combi-wheels & flap brush)	RH114





Flap Discs



Copyright 2016 Hi-Line, Inc

Flap Discs



- Type 27 depressed center wheels.
- Aluminum oxide abrasive.
- Use on die grinders for finishing & grinding.
- *Quieter than grinding discs.*



Dia. (in)	Grade / Grit	Arbor (in)	Part No.
4	120	5/8	AFD4120
4-1/2	120	7/8	AFD412120
	36		AFD41236
	50		AFD41250
	60		AFD41260
	80		AFD41280
7	120	7/8	AFD7120
	36		AFD736
	50		AFD750
	60		AFD760
	80		AFD780

BobCat™ Mini Flap Discs



Zirconium Grain–Plastic Backing

- 2" diameter flap discs for right angle grinders for smooth grinding and enhanced conformability in tight areas.
- Available in Type 29 wheels for 15°F–25°F work and Type 27 for 0°F–15°F work.
- Plastic backing.
- Features Zirconium abrasive—a very fine dense man-made crystalline grain for aggressive stock removal with long life.



Dia. (in)	Grit Size	Part No.	
		Type 29	Type 27
2	36	AFD29236	AFD27236
	40	AFD29240	AFD27240
	60	AFD29260	AFD27260
	80	AFD29280	AFD27280
	120	AFD292120	AFD272120

BobCat™ Drive Mandrel

For mounting 2" & 3" BobCats on tools with 1/4" collets.



AFDS1



Mini Flap Discs w/ Threaded Hubs

- Zirconium grit for rapid material removal with long life
- Threaded hub for easy change over between surface conditioning discs
- Small diameters for use in confined areas
- Out performs single layer discs

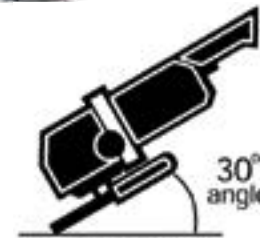
Dia. (in)	Grit	Part No.
2	40	UA74820
	60	UA74822
	80	UA74823
	120	UA74825
3	40	UA74830
	60	UA74832
	80	UA74833
	120	UA74835



Flap Discs* Ceramic Grit



- Type 29 (conical shape) for angle grinders
- For use on ferrous & non-ferrous metals including high tensile steel & titanium
- Great on stainless steel – will not contaminate the stainless
- High-performance ceramic grit on durable poly/cotton backing
- Fast stock removal with long life
- Regular density flaps on a fib glass backing plate uses specially formulated adhesive for safety
- Arbor: 5/8" – 11 threaded hub



Dia. (in)	Grit	Part No.
4-1/2	40	UA72931
	60	UA72932
	80	UA72933

*All United Abrasive's 5/8"-11 hubs use a patented 2-way attachment. Their unique Super-Lock™ system employs 2-part epoxy along with a mechanical keyway that does not fail. Since 1983 they have not had a failure reported!



Abrasive Wheels

Mounted Flap Wheels



- Aluminum oxide abrasive wheels mounted on 1/4" shafts.
- Commonly used on die grinders and drill presses.
- Used for finishing on metal surfaces and deburring. *Also used on plastic and wood.*



Dia. (in)	Grade/Grit	Part No.
1	80	PG180
1-1/2	60	PG11260
	80	PG11280
2	60	PG260
	80	PG280
2-1/2	80	PG21280
3	60	PG360
	80	PG380

Scotch-Brite™ Flap Brush



- Use flaps of non woven Scotch-Brite abrasive. "Hand pads on a wheel."
- For metal, plastics and wood.
- **Two styles of abrasive:**
- Heavy Duty (HD) – Removes handling marks and surface imperfections while polishing.
- Finishing – Is ideal for decorative finishing.



HD Scotch-Brite™ Flap Brush
Heavy-Duty Mark & Imperfection Remover

Finishing Scotch-Brite™ Flap Brush
Finishing & Light Deburring

Heavy-Duty					
Dia. (in)	Length (in)	Shaft (in.)	Description	Grade / Grit	Part No.
2	1	1/4	HD Scotch-Brite™ Flap Brush	Medium	CPW16622
3	1-3/4	1/4	HD Scotch-Brite™ Flap Brush		CPW05974
	1-3/8	use RH114	HD Scotch-Brite™ Flap Brush		CPW14588

Finishing					
Dia. (in)	Length (in)	Shaft (in)	Description	Grade / Grit	Part No.
3	1-3/8	use RH114	Finishing Scotch-Brite™ Flap Brush	Coarse	SB14587
	1-3/8	use RH114	Finishing Scotch-Brite™ Flap Brush	Super Fine	SB14783
	1-3/4	1/4	Finishing Scotch-Brite™ Flap Brush	Coarse	SB05975
	1-3/4	1/4	Finishing Scotch-Brite™ Flap Brush	Super Fine	SB14781



Scotch-Brite™ Combi-Wheels



- Combines alternating flaps of aluminum oxide abrasive with pads of non-woven Scotch-Brite abrasive web- aggressive cut with fine finish
- Produces a finer finish than standard flap wheels while working faster than straight Scotch-Brite flap wheel.
- *Softer contact and less chatter than standard flap wheels.*
- 1/4" and Roloc shafts available.



Alternating Scotch-Brite & Aluminum Oxide

Dia (in)	Description	Grade / Grit	Length (in)	Shaft (in)	Part No.
3	Scotch-Brite™ Combi-Wheel	80	1-3/4	1/4	COMBIS
2-1/2	Scotch-Brite™ Combi-Wheel	180	1-1/4	use RH114	COMBIR



Dia. (in)	Grade	Color	RPM	Part No.
1-1/2	Course	Brown	24,000	ABR1001
	Very Fine	Blue		ABR1002
2	Course	Brown	24,000	ABR1003
	Very Fine	Blue		ABR1004
3	Course	Brown	18,000	ABR1005
	Very Fine	Blue		ABR1006
4	Course	Brown	18,000	ABR1007
	Very Fine	Blue		ABR1008
Mandrel	Fits all Scotch-Brite Stars			ABR1000

Scotch-Brite™ Stars



- Perfect for polishing internal diameters of pipe and tubing.
- Conformable Scotch-Brite™ construction assures complete cleaning and polishing of all surfaces.
- Stars quickly spin-on to the threaded mandrel in either direction and are used with portable hand tools.



Abrasive Wheels

Cross Buffs



Made with Scotch-Brite™ High Strength very fine abrasive material to provide a proven means of cleaning and polishing inside diameters.



Cleaning

- Great surface oxidation remover.
- Ideal for surface prep before coating.
- Recommended for removing service coating for parts inspection.
- Good at removing corrosion on dies.

Polishing

- Withstands heavy edge work to produce smooth polish on parts such as round and square tubing.
- Provides a buff mold & die polish
- Shaped for polishing and honing inside diameters of lifter bores, valve bodies and brake cylinders.
- Flexible design allows the buffs to conform to the part, yet maintain critical tolerances.

Dia. (in)	Grade*	Color	Width (in)	Max RPM	Part No.
1	A MED	Purple	3/8	20,000	ABR1011
	A VFN	Maroon			ABR1012
1-1/2	A MED	Purple	3/8		ABR1013
	A VFN	Maroon			ABR1014
1-1/2	A VFN	Maroon	1/2		ABR1015
2	A MED	Purple	1/2	12,000	ABR1016
	A VFN	Maroon			ABR1017

*A VFN – Maroon for high luster finishes

A MED – Purple for more aggressive applications requiring increased durability





Stripe Off Wheel



- Removes: vinyl decals, striping tapes, double sided attachment tapes and double sided foam adhesive tapes.
- Easier, faster and safer than conventional stripe removal products.
- Will not scratch or damage acrylic enamel or urethane paint.
- Designed for use with standard 3/8" electric or pneumatic tools with a 500–4,000 RPM range.
- Optimum performance is obtained at 2,000 RPM.
- Includes a 3/8" drive mounting attachment.
- 4" dia. x 5/8" thick.
- Note: Not for use on lacquer finishes .



Part No.	Description
SOW458	Stripe Off Wheel

Evenrun Bands



- Cubitron abrasive.
- Resin bonded cloth for heat resistance.
- Cooler grinding than standard bands.
- Use on portable drills, die grinders.
- Straight shaft and angle grinders.
- For grinding, blending, stock removal, deburring and finishing .



Evenrun Band



**Rubber Slotted Expander
For Evenrun Bands**

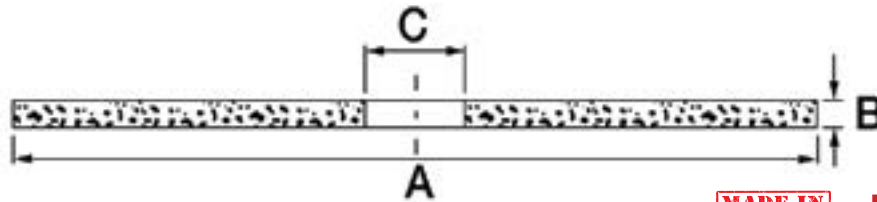
Dia. (in)	Length (in)	Grade / Grit	Description	Arbor	Part No.
1	1	60	Evenrun Band	use RSE1	ERB1X1
2	1	60	Evenrun Band	use RSE2	ERB2X1
1	1		Rubber Slotted Expander	1/4" Shaft	RSE1
2	1		Rubber Slotted Expander	1/4" Shaft	RSE2





Type 1 Cut-Off Wheels

Type 1 Cut-Off Wheels for Die Grinders



High Performance Cut-Off Wheels – Synthetic grain

MADE IN USA

SAIT

- Combines fast cutting with extremely long life.
- For use in die grinders on stainless steel, high-tensile alloys, ferrous & non-ferrous metals.
- Uses 3M Cubitron abrasive grain – 2 to 3 times tougher than standard aluminum oxide.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
3	1/16 (.0625)	1/4	25,000	Cubitron	UA23142
	1/16	3/8			UA23140
	.035	1/4			UA23152
	.035	3/8			UA23150
4	1/16 (.0625)	1/4	19,000	Cubitron	UA23167
	1/16	3/8			UA23165
	1/16	5/8			UA23161
	.035	1/4			UA23171
	.035	3/8			UA23169
	.035	5/8			UA23163



SAIT High-Speed Cut-Off Wheels

Green Corps Cut-Off Wheels – Synthetic grain

MADE IN USA

3M

- Long lasting cut-off wheels that cut fast.
- Use on fiber glass, stainless steel, mild steel & high-tensile alloys.
- Uses 3M Cubitron abrasive grain.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
2	1/16 (.0625)	1/4	42,000	Cubitron	CWP211614
3	1/32 (.03125)	1/4	35,000		CWP33214
		3/8			CWP33238
	1/16 (.0625)	3/8	28,000		CWP31638



Green Corp.® Cut-Off Wheels



Type 1 Cut-Off Wheels for Die Grinders

Cut-Off Wheels – Hard bond for smooth cuts



- Hard bond for smooth, burr free cutting.
- For ferrous & non-ferrous metals.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
3	1/16 (.0625)	3/8	25,000	A60T	UA23041
	.035				UA23051
4	1/16 (.0625)	1/4	19,000	A60T	CWHS411614
	1/16	3/8			UA23066
	.035	1/4			UA23072
	.035	3/8			UA23070



Cut-Off Wheels – General purpose



- Aggressive cutting.
- For ferrous & non-ferrous metals.



A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
3	1/16 (.0625)	3/8	25,000	A36T	UA23040
	.035				UA23050
4	1/16 (.0625)	1/4	19,000	A36T	UA23067
	1/16	3/8			UA23065
	.035	1/4			UA23071
	.035	3/8			UA23069



3M General Purpose Cut-Off Wheels



- For ferrous & non-ferrous metals.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
3	1/32 (.03125)	3/8	25,000	AL/OX	CW33238
	1/16 (.0625)				CW31638





Type 1 Cut-Off Wheels

Type 1 Cut-Off Wheels for Circular Saws & Angle Grinders



MADE IN USA

SAIT

High Performance Cut-Off Wheels – Synthetic grain

- Combines fast cutting with extremely long life.
- For use on angle grinders & circular saws.
- Use on stainless steel, high-tensile alloys, ferrous & non-ferrous metals.
- Uses 3M Cubitron abrasive grain–2 to 3 times tougher than standard aluminum oxide.
- .045 width for fast cuts.
- Use with 5/8–11 adapter #UA95055 to fit angle grinders.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4	.045	5/8	19,000	Cubitron	UA23172
4-1/2	.045	7/8	13,300		UA23174
5	.045	7/8	12,200		UA23177
6	.045	5/8	10,200		UA23181
		7/8	8,500		UA23182
7	.045	5/8	8,500		UA23184



General Purpose Cut-Off Wheels – Fast cutting

MADE IN USA

SAIT

- Use on ferrous & non-ferrous metals.
- Use with 5/8–11 adapter #UA95055 to fit angle grinders.
- .045 width fast cutting.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4	.045	5/8	19,000	A60S	CWHS404558
4-1/2	.045	7/8	13,300		CWHS41204578
6	.045	7/8	10,200		UA23106
7	.045	5/8	8,500		UA23107





Type 1 Cut-Off Wheels for Circular Saws & Angle Grinders



General Purpose Cut-Off Wheels – Long life



- Use on ferrous & non-ferrous metals.
- Provides consistent performance with long life.
- Non-binding cutting.
- Use with 5/8–11 adapter #UA95055 to fit angle grinders.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4-1/2	5/64 (.078)	7/8	13,300	A30S	UA23102
5	5/64	7/8	12,200		UA23224
7	3/32 (.09375)	5/8	8,500		UA23242
8	3/32	5/8	7,600		UA23246



General Purpose Cut-Off Wheels



- Use on ferrous metals: rebar, angle iron & steel.
- Provides consistent performance with long life.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
7	3/32 (.09375)	5/8	8,500	A24R	UA23230



Cut-Off Wheel – Concrete



- Portable saws, circular & angle grinders.
- For concrete, stone, brick, masonry & soft aggregate.
- Silicone carbide grain.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
7	3/32 (.09375)	5/8	8,500	C24R	UA23231





Bench Wheels

Resin Bonded Abrasives – ANSI Standard Marking System

The following chart is an example of the ANSI standard marking system for identifying grinding wheels and other bonded abrasives.

A	24				R			BF
Primary grain used to make the wheel. A = Aluminum Oxide C = Silicon Carbide Z = Alumina Zirconium SG = Seeded Gel	Size of the abrasive grain.				Hardness of the bond.			Type of bond used. B Resinoid BF Resinoid Reinforced E Shellac O Oxchloride R Rubber RF Rubber Reinforced S Silicate V Vitrified
	Coarse	Medium	Fine	Very Fine	Soft	Medium	Hard	
	8	30	70	220	←		→	
	10	36	80	240	A	N	Z	
	12	46	90	280				
	14	54	100	320				
	16	60	120	400				
	20		150	500				
	24		180	600				

Bench Grinder



Bench Grinding Wheels



- For bench grinders.
- Aluminum Oxide grain in 36 (coarse medium) & 60 (fine medium)
- Use on ferrous metals.

A	B	C			
Dia. (in)	Width (in)	Bore (in)	Max RPM	Grain	Part No.
Coarse Medium					
6	3/4	1	4,138	A36	UA28000
	1				UA28006
8	1	1	3,600	A36	UA28023
Fine Medium					
6	3/4	1	4,138	A60	UA28001
	1				UA28007
8	1	1	3,600	A60	UA28024



Bench Wire Wheels



- Stackable to achieve wider work face.
- Crimped steel wire.

Dia. (in)	Width (in)	Bore (in)	Part No.
6	1	1/2 & 5/8	UA09557
7	1	5/8	UA09559
8	1	5/8	UA01411





Type 27 Depressed Center Wheels



Cut-Off Wheel* Ceramic Grit

MADE IN USA

Part No: UA23321

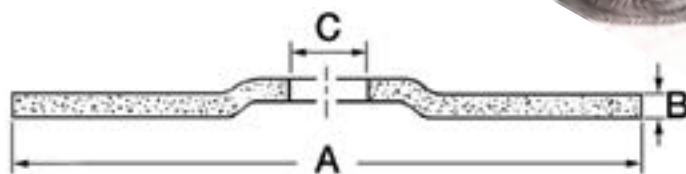
- Type 27 wheel for angle grinders
- For use on ferrous & non-ferrous metals, stainless steel & aluminum
- High-performance ceramic grit for fast cutting with long life



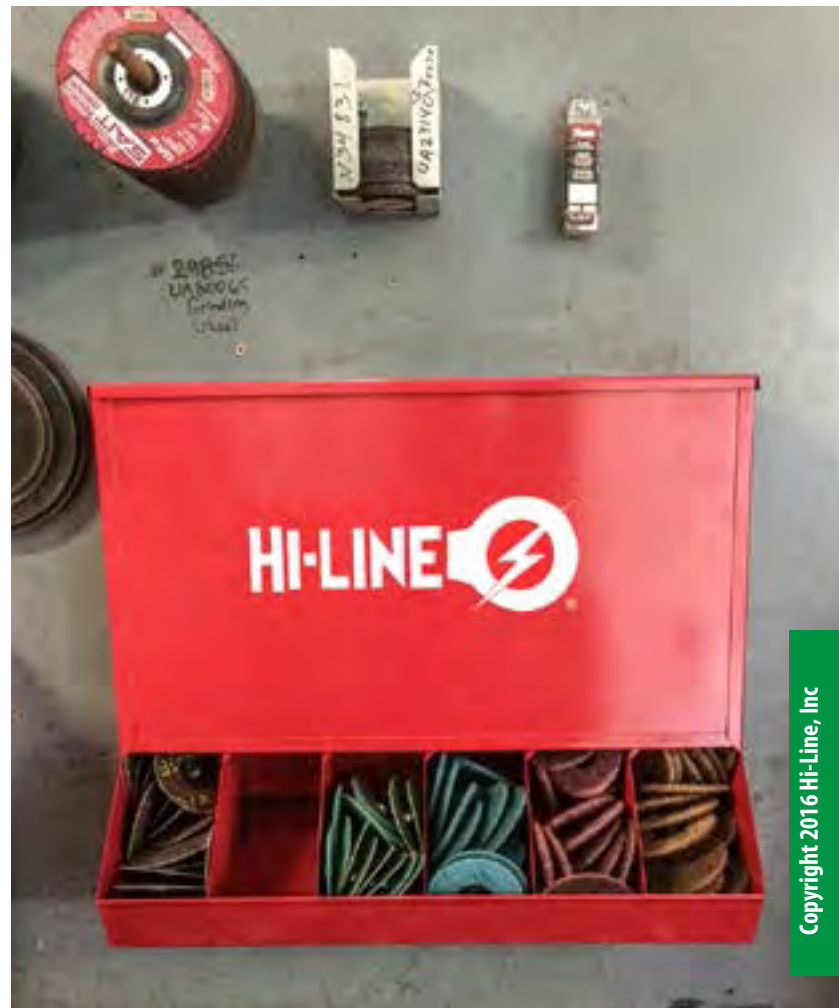
A. Diameter: 4-1/2"

B. Width: .045

C. Arbor: 5/8"-11 threaded hub



*All United Abrasive's 5/8"-11 hubs use a patented 2-way attachment. Their unique Super-Lock™ system employs 2-part epoxy along with a mechanical keyway that does not fail. Since 1983 they have not had a failure reported!

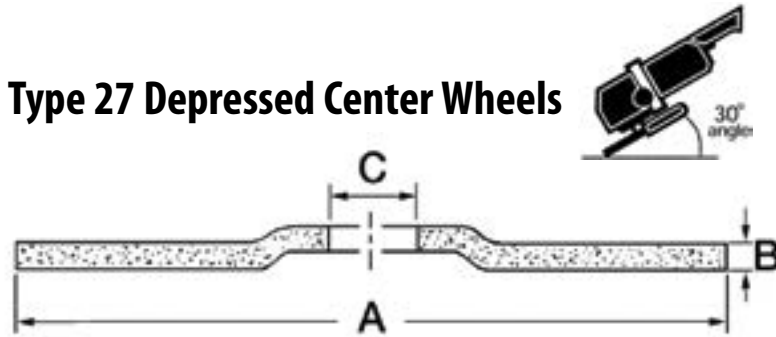




Type 27 Grinding Wheels



Type 27 Depressed Center Wheels



High-Performance Type 27 Grinding Wheels – Synthetic grain

MADE IN USA

SAIT

- Fast Grinding—Long life in toughest applications.
- For ferrous & non-ferrous metals.
- Use on angle grinders.
- Zirconium grain—A dense synthetic crystalline grain that is extremely durable and self sharpening. Excels on tough to grind applications.
- Features Super-Lok low vibration hubs on 5/8–11 threaded arbors.



A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4	1/4	5/8	13,500	Z24R	UA22599
4-1/2	1/4	7/8	13,300	Z24R	UA22600
		5/8–11			UA22610
5	1/4	7/8	12,200	Z24R	UA22602
		5/8–11			UA22612
7	1/4	7/8	8,500	Z24R	UA22604
		5/8–11			UA22614

Note: 5/8-11 bore indicates a threaded arbor.

General Purpose Type 27 Grinding Wheels

MADE IN USA

SAIT

- For ferrous metals.
- Hard bond for edge and bevel grinding.
- General purpose, long life design.



A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4-1/2	1/4	7/8	13,300	A24T	UA20065
		5/8–11			UA20165
5	1/4	7/8	12,200	A24T	UA20075
		5/8–11			UA20175
7	1/4	7/8	8,500	A24T	UA20285
		5/8–11			UA20185

Note: 5/8-11 bore indicates a threaded arbor.



Type 27 Depressed Center Wheels



Long Life Type 27 Grinding Wheels



- A long life wheel for general purpose grinding.
- For ferrous metals.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4-1/2	1/4	7/8	13,300	A24R	GW4121478
		5/8-11			UA20163

Note: 5/8-11 bore indicates a threaded arbor.



Aluminum Grinding Type 27 Wheels



- Soft bond for aggressive removal of aluminum without loading.
- Good for aluminum, copper, brass and other non-ferrous metals.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4-1/2	1/4	7/8	13,300	A46N	UA20062
		5/8-11			UA20162
7	1/4	7/8	8,500	A46N	UA20083
		5/8-11			UA20088

Note: 5/8-11 bore indicates a threaded arbor.



General Purpose Cutting Type 27 Wheel



- Unique, .045" thin Type 27 depressed center wheel for use on angle grinders.
- Fast, burr free cutting.
- Hard bond for long life.
- Use on ferrous & non-ferrous metals.

A Dia. (in)	B Width (in)	C Bore (in)	Max RPM	Grain	Part No.
4-1/2	.045	7/8	13,300	A60S	CW41204578





Adapters & Mandrels

Adapters & Mandrels



Description	Shaft Dia.	Min Width	Max Width	Style	Bore (in)	Part No.
Mandrel for Cut-Off Wheels	1/4"	1/32"	1/4"	Flush	1/4 & 3/8	WA1438
		1/32"	3/8"	Nut	1/4"	MKM690140
		1/32"	1/4"	Flush	1/4"	MKM690102
		1/4"	1/2"	Flush	1/4"	MKM690096
		1/32"	1/4"	Nut	3/8"	MKM690133
		1/32"	1/4"	Flush	3/8"	MKM690089
	3/8"	1/32"	1/2"	Nut	3/8"	MKM690157
		1/4"	1/2"	Flush	3/8"	MKM690119
		1/32"	1/4"	Flush	3/8"	MKM690126
Adapter for Type 1 & 27 Reusable – Converts 7/8" to 5/8"–11						UA95055



Resin Based Abrasives – Sample of Wheel Label

Below is an example of a label that can be found on United Abrasives' wheels. We feel it is important to include as much information as possible on our labels so the end user has the pertinent information needed to operate the wheel. All of our labels are baked on the wheels during the manufacturing process, so the label remains intact throughout the life of the wheel.



Wheel Label Color Coding:





Wire Brushes



Knot wire brushes provide high impact action. Use for removal of rust, scale, weld splatter, heavy burr removal etc.

Crimp wire brushes are for more general-purpose applications with more flexibility and a wider face. Use for such things as: roughing for adhesion, edge blending, surface prep for painting, cleaning and deburring.

Stainless steel brushes are used where contamination or rust is a concern, such as brushing aluminum & stainless steel parts.



Knot Wire Cup Brush



Crimp Wire Cup Brush



Wire Brushes – Small Cup

Description	Dia. (in)	Wire Dia.	Arbor	Part No.
Crimped wire – carbon	2-3/4	.014	5/8"–11	UA01401
Knot wire – carbon	2-3/4	.014	5/8"–11	UA03414
Knot wire – carbon	2-3/4	.014	M10 – 1.25	UA03416
Knot wire – carbon	2-3/4	.020	5/8"–11	UA03501
Knot wire – carbon	3-1/2	.020	5/8"–11	UA03511
Knot wire – stainless	3-1/2	.020	5/8"–11	UA03512
Crimped wire – carbon	3-1/2	.014	5/8"–11	UA03513
Crimped wire – stainless	3-1/2	.014	5/8"–11	UA03514

Wire Brushes – End

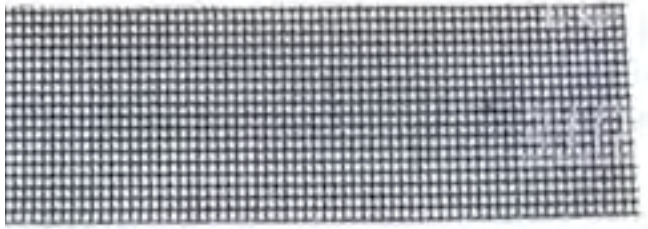
Description	Dia. (in)	Wire	Shaft (in)	Trim (in)	Part No.
Knot wire	1	.020	1/4	1	UA02701
Crimped wire	1	.020	1/4	1	UA02709

Wire Brushes – Wheel

Description	Dia. (in)	Wire	Shaft (in)	Trim (in)	Part No.
Crimped wire	2	.014	1/4	7/16	UA02712
	3	.014	1/4	15/16	UA02713



Abrasives



Comes in flat sheets and rolls.

Screen Back Open Mesh Abrasive

MADE IN USA

- For wet or dry applications.
- Screen mesh for much reduced landing.
- Use on plastics, fiber glass and all metals.
- Sheets and rolls.

Description	Grade / Grit	Type/Size	Part No.
Screen Back	100	25 Yard Rolls	ASBR100
	150		ASBR150
	220		ASBR220
	320		ASBR320
	100	9" x 11" Sheets	ASB100
	150		ASB150
	220		ASB220
	320		ASB320



Abrasive Cloth

- 1-1/2" x 50 yard rolls.
- Made with aluminum oxide with urea resin bond on jeans cloth.
- Comes in sturdy corrugated spool box for easy storage and accessibility.

Description	Grade / Grit	Type/Size	Part No.
Abrasive Cloth	50	50 Yard Rolls	ASR50
	60		ASR60
	80		ASR80
	100		ASR100
	120		ASR120
	150		ASR150
	180		ASR180
	220		ASR220
	240		ASR240
	320		ASR320
	400		ASR400
	600		ASR600



Scotch-Brite Non-Woven Hand Abrasive Pads



- Scotch-Brite hand pads cut fast and leave a more consistent finish than other abrasives.
- Material will never rust and can be used with water or solvents.



Description	Grade / Grit	Color	Type/Size	Part No.
Hand Abrasive Pads	Coarse	Gray	Finishing	ANW10
	Medium	Maroon	Finishing/Cleaning	ANW30
	Fine	White	Cleaning	ANW40
	Ultra Fine	Light Gray	Finishing	ANW50
Hand Gripper	Use with 1/4 of Scotch-Brite hand pad.			HPH7961
Mini-Mandrel	Use with 1" x 1-1/2" strips of Scotch-Brite hand pads.			RDM935



**Mini-Mandrel
RDM935**



**Scotch Brite Hand Gripper
HPH7961**





Abrasive Assortments

Full Assortment Product Quantity

Starter Assortment Product Quantity

2" GRADE 36 AL/OX COATED ABRASIVE-BROWN BUTTON RDD236

You can choose between a full quantity assortment or partial "starter" assortment quantity.











Roloc 2" Abrasive Discs

Full Assortment Part No. RD2K 66 Pieces (Comes in a PBADJ parts bin)		Starter Assortment Part No. RD2KSA 34 Pieces (Comes in a PBADJ parts bin)	
Back of Drawer			
	1 / 1		10 / 5
	1 / 1		10 / 5
	2 / 1		10 / 5
	2 / 1		10 / 5
			10 / 5
			10 / 5
Front of Drawer			




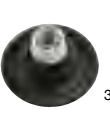



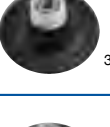

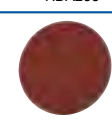

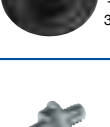

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Roloc 3" Abrasive Discs

Full Assortment Part No. RD3K 66 Pieces (Comes in a PBADJ parts bin)		Starter Assortment Part No. RD3KSA 34 Pieces (Comes in a PBADJ parts bin)			
Back of Drawer					
	1 / 1 3" MEDIUM YELLOW BRISTLE DISCS RDB3M		10 / 5		10 / 5
	1 / 1 3" COARSE GREEN BRISTLE DISCS RDB3C		10 / 5		
	2 / 1 DISC PAD FOR 3" DISCS RDP3		10 / 5		10 / 5
	2 / 1 1/4" SHAFT FOR DISC PADS RDS14		10 / 5		
Front of Drawer					

Cubitron II Roloc Discs

Back of Drawer			
	5 3" DIA. - 36 GRIT 3M CUBITRON II ABRASIVE DISCS RDA336		5 3" DIA. - 60 GRIT 3M CUBITRON II ABRASIVE DISCS RDA360
	5 3" DIA. - 80 GRIT 3M CUBITRON II ABRASIVE DISCS RDA380		1 3" DIA - MEDIUM 3M ROLOC DISC PAD RDP3M
	5 2" DIA. - 36 GRIT 3M CUBITRON II ABRASIVE DISCS RDA236		5 2" DIA. - 60 GRIT 3M CUBITRON II ABRASIVE DISCS RDA260
	5 2" DIA. - 80 GRIT 3M CUBITRON II ABRASIVE DISCS RDA280		1 2" DIA - MEDIUM 3M ROLOC DISC PAD RDP2M
	5 1-1/2" DIA. - 36 GRIT 3M CUBITRON II ABRASIVE DISCS RDA11236		5 1-1/2" DIA. - 60 GRIT 3M CUBITRON II ABRASIVE DISCS RDA11260
	5 1-1/2" DIA. - 80 GRIT 3M CUBITRON II ABRASIVE DISCS RDA11280		1 1-1/2" DIA - MEDIUM 3M ROLOC DISC PAD RDP112M
			1 1/4" SHAFT FOR BRISTLE DISC PADS RDS14
Front of Drawer			












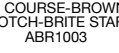
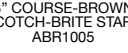
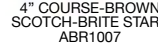
Abrasive Assortments

Scotch-Brite Stars

Full Assortment

Part No. AST0201

18 Pieces (Comes in a PBADJ parts bin)









Back of Drawer			
 2	 2	 2	 2
 2	 2	 2	 2
 1	 2	 2	 2
1-1/2" VERY FINE-BLUE SCOTCH-BRITE STARS ABR1002	2" VERY FINE-BLUE SCOTCH-BRITE STARS ABR1004	3" VERY FINE-BLUE SCOTCH-BRITE STARS ABR1006	4" VERY FINE-BLUE SCOTCH-BRITE STARS ABR1008
1-1/2" COURSE-BROWN SCOTCH-BRITE STARS ABR1001	2" COURSE-BROWN SCOTCH-BRITE STARS ABR1003	3" COURSE-BROWN SCOTCH-BRITE STARS ABR1005	4" COURSE-BROWN SCOTCH-BRITE STARS ABR1007
MANDREL 1/4"-20 x 1/4" SHANK SCOTCH-BRITE STARS ABR1000			
Front of Drawer			

Scotch-Brite Cross Buff

Full Assortment

Part No. AST0202

16 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 2	 2	 2	 2
 1	 2	 2	 2
1-1/2" D x 3/8"W- A VFN -MAROON CROSS BUFFS ABR1014	1-1/2" D x 1/2"W- A VFN -MAROON CROSS BUFFS ABR1015	2" D x 1/2"W- A MED -PURPLE CROSS BUFFS ABR1016	2" D x 1/2"W- A VFN -MAROON CROSS BUFFS ABR1017
MANDREL #8-32 x 1/4" SHANK CROSS BUFFS ABR1010	1" D x 3/8"W- A MED -PURPLE CROSS BUFFS ABR1011	1" D x 3/8"W- A VFN -MAROON CROSS BUFFS ABR1012	1-1/2" D x 3/8"W- A MED -PURPLE CROSS BUFFS ABR1013
Front of Drawer			

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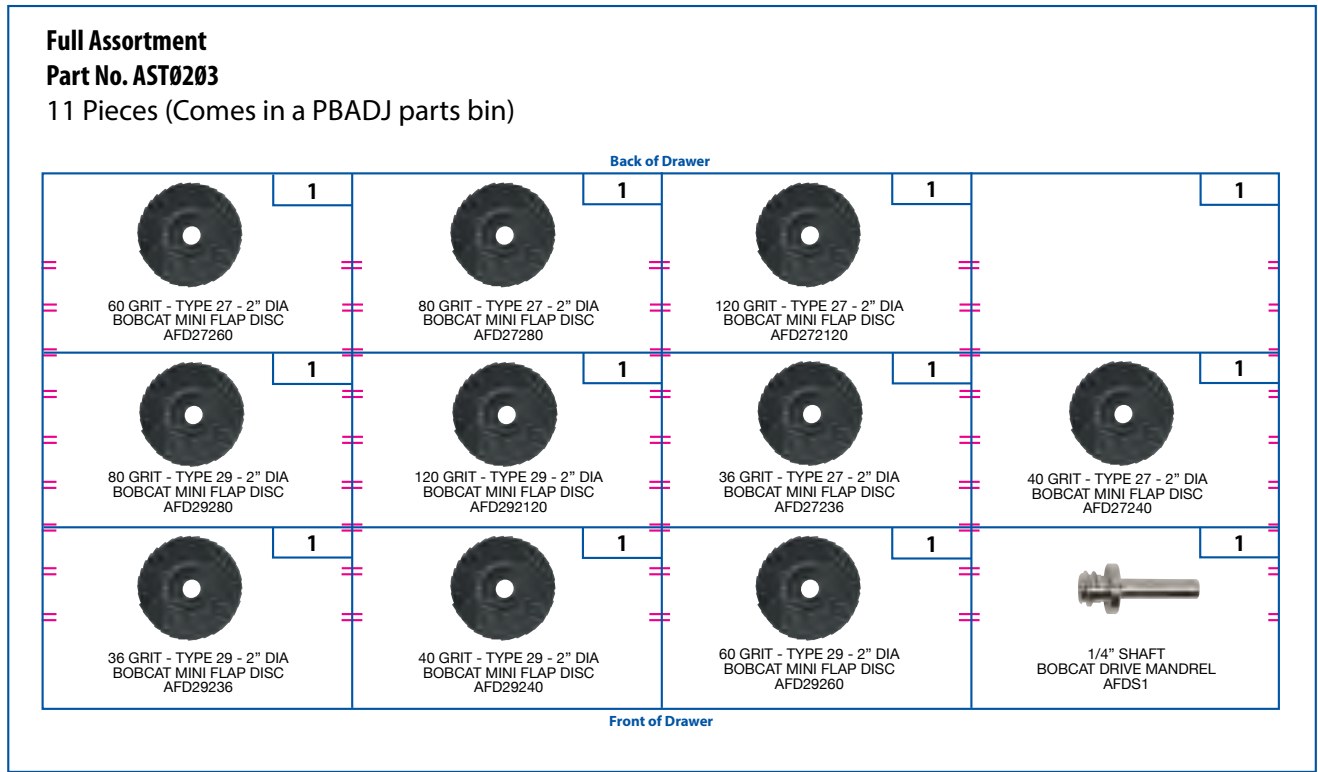


Bob Cat Mini Discs

Full Assortment

Part No. AST0203

11 Pieces (Comes in a PBADJ parts bin)





SHOP SUPPLIES

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Testing Equipment



Electrical Multimeter

Part No: MT114

Compact true-rms meter for electrical troubleshooting. The Fluke 114 is the troubleshooting tool for “go/no-go” testing. It includes a feature to prevent false readings caused by ghost voltage.

- AutoVolt: automatic AC/DC voltage selection
- Large white LED backlight to work in poorly lit areas
- Resistance and continuity
- Min/Max/Average to record signal fluctuations
- CAT III 600 V safety rated



Clamp Meter

Part No: MT374

The MT374 True-rms Clamp Meter can read up to 600 V and 600 A in both AC and DC modes.

- CAT IV 600 V, CAT III 1000 V
- Filters out noise and capture motor starting current exactly as the circuit protection sees it
- Ergonomic design fits in our hand and can be used while wearing personal protective equipment
- Large, easy to read backlight display automatically sets the correct measurement range, so you do not need to change the switch positions while taking a measurement
- Three-year warranty
- Soft carrying case
- Replaces MT335



Built-in flashlight



Fluke T+PRO Electrical Tester

Part No: MTTPLUSPRO

The T+PRO Electrical Testers offer all the functionality that electricians look for in volt meters and voltage and continuity testers:

- Three ways to detect AC/DC voltage: light, sound, and vibration
- Added functionality of a GFCI trip and continuity beeper, plus the convenience of a built-in flashlight
- The T+PRO Electrical Tester comes with a rotary field indicator for troubleshooting three-phase systems, resistance measurement to 9.99 KOhms, as well as a backlit LCD display for easier viewing



Test Meters

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Fluke 1587 Insulation Multimeter

Part No: MT1587

The Fluke 1587 Insulation Multimeters combine a digital insulation tester with a full-featured, true RMS digital multimeter in a single, compact, handheld unit, which provides maximum versatility for both troubleshooting and preventative maintenance.

Includes:

- Remote probe
- Test leads
- Alligator clips
- K-type thermocouple
- Hard case
- Four AA alkaline batteries
- Quick Reference Guide
- CD Rom with manual

Fluke 789 Process Meter

Part No: MT789

- 24V Loop power supply
- Very large dual display
- Enhanced backlight with 2 brightness settings
- 1200 ohm drive capability on mA source
- HART mode setting with loop power and a built-in 250 ohm resistor
- 0% and 100% buttons to toggle between 4 and 20 mA sourcing for a quick span check
- Externally accessible fuses for easy replacement
- Infrared-port to process data in FlukeView Forms(V2.1) software

Toolpak™ Meter Hanger

Part No: TPAK

Take measurements hassle free with Fluke Meter hangers. Solves almost any hanging and positioning problems you may face. The universal hanger allows you to hang your meter on nails, hooks and many other objects.

Kit includes:

- 9 inch hook and loop strap
- Universal hanger clip
- Hook hanger for non magnetic surfaces
- Strong magnet
- Attaches to back of a 110/170/180/280 Series meter, 87-V, 1587, 20/70-III with intergrated holster (with adapter), 724/725 and 50 Series II

MADE IN USA





**MADE IN
USA**



Fluke 87V/E2 Industrial Electrician Combo Kit

Part No: MT87VE2

Includes special accessories to make industrial troubleshooting even more productive.

- A.** 87V Industrial Multimeter
- B.** Lightweight soft case for optimal protection and accessory storage
- C.** 1.5m heat resistant silicone test leads
- D.** Removable test probes with 4m of exposed metal for use on industrial circuits
- E.** Retractable long reach alligator clips
- F.** Magnetic hanger to position and hold meter to steel surfaces
- G.** Temperature probe

- True-rms ac voltage and current for accurate measurements on non linear signals
- Selectable filter for accurate voltage and frequency measurements
- 0.05% DC accuracy
- 4-1/2 digit mode for precise measurements
- Built-in thermometer lets you carry one less tool
- Large display digital and two-level bright white backlight for increased visibility
- 10,000 μF capacitance range for components and motor caps
- Peak capture to record transients as fast as 250 μs
- Measure up to 10A, 20A for up to 30 seconds
- Auto and manual ranging for maximum flexibility
- Analog bargraph
- Resistance, continuity and diode test
- Frequency to 200 kHz and % duty cycle
- Min/Max and average recording to capture variations automatically
- Relative mode to remove test lead resistance from low ohms measurements
- Improved sleep mode for long battery life
- Access door for fast battery changes without breaking the calibration seal
- Limited lifetime warranty
- Removable holster with built in test lead and probe storage
- Cat IV 600V and Cat III 1000V electrical safety ratings
- Basic test leads and alligator clips
- Bead type thermocouple temperature probe





Test Products & Clips

Fast Acting Ferrule Fuses for Multimeters



- Designed for multimeters only
- Intended to carry 100% of rated current fidelity
- Not intended for branch circuit protection
- 1,000 Volts AC/DC

AMP	Length x Dia. (in)	Industry #	Part No.
44/100	1.375 x .406	DMM-B-44/100	DMM-44/100
11	1.5 x .406	DMM-B-11A	DMM-11A



TP81 Insulation Piercing Probes with Banana Jack

Part No: MTA81

Stainless steel probe pierces insulation on 14, 16 and 18 gauge wire. You control needle depth to minimize insulation damage. Essential for use under hood or under dash. Use it on fuel injectors or sensors while providing complete insulation to grounding. Use with ATM103, ATM104 & MTA20.

Red and Black – 1 Pack



TP920 Test Probe Adapter Kit

Part No: MTA920

Set of push-on adapters for Fluke# TL71 and TL75 (Hi-Line Part No. MTA75) test probes, IC test adapters, extended probe tips, medium alligator clips (max. opening 7.6mm), CAT III 300V, 3A rating.

Red and Black – 3 Types



TP88 Rigid Back Probe Pin Set

Part No: MTA88

Better than a test probe alone - these two inch long rigid back probe pins easily pass between the weather pack seal and wire. A sharp point ensures good contact to the electrical connector, and the pin's insulation protects it from shorting to other wire. Use with Fluke# TL71, TL75 (Hi-Line Part No. MTA75).

Red and Black – 1 Pair



AC220 SureGrip™ Alligator Clips Set

Part No: MTA220

SureGrip™ accessories are designed to improve steadiness in slippery hands. Rubber overmolded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

- One pair (red, black) of small, insulated, nickel plated jaws
- Blunt tip grabs round screw heads up to 9.5 mm
- Recommended for use with Fluke# TL222, TL224 test leads and Hi-Line Part No. ATM103 & ATM104
- CAT IV 600V, CAT III 1000V, 10A rating
- UL listed



TL910 Electronic test probes with Replacement Tips

Part No: MTA910

Electronics test probes with very small 1mm tips to access hard to reach test points, probe tip length up to 100 mm, test lead length: 1m.

Includes:

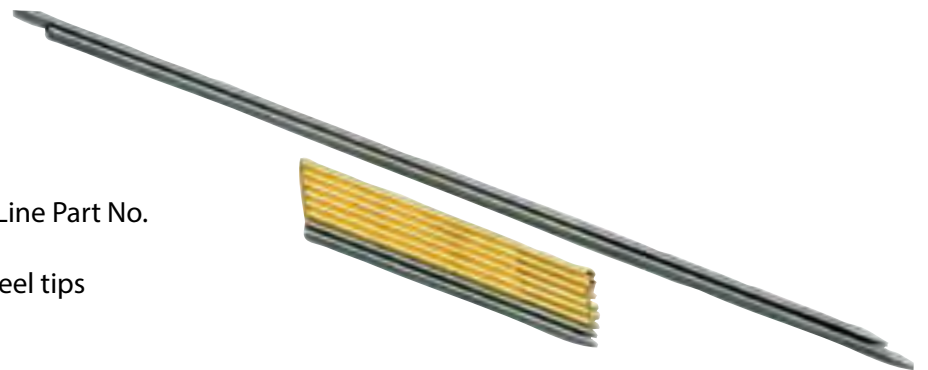
- 3 sets of spring loaded gold tips
- 2 sets of stainless steel tips CAT IV 600V, CAT III 1000V, 3A



TP912 Replacement Tips

Part No: MTA912

- Replacement tips for Fluke# TL910 (Hi-Line Part No. MTA910)
- Five sets of gold plated and stainless steel tips





Test Products & Clips

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Industrial Test Lead Set

Part No: MTA20

- Starter kit for Industrial applications
- 1000 V CAT III, 600 V CAT IV, 10A
- 90 Vac to 600 Vac.



Hard Point Test Lead Set

Part No: MTA75

- Extremely hard alloy tips resist wear
- CAT III, 1000V, 10A; CAT IV, 600V, 10A



MTA175

Alligator Clip Set

Part No: MTA175

- Slide on alligator clips (red, black) compatible with MTA75 & MTA20 test leads
- Insulated alligator clip jaws provide 8 mm opening with flexible boots
- CAT III 1000 V, CAT IV 600 V, 10 A rating, Fluke #AC175



MT1ACA1

VoltAlert

Part No: MT1ACA1

- Fits in a shirt pocket for convenience
- Detects voltage from 90 Vac to 1000 Vac without metallic contact



TLP0690

Circuit Tester

Part No: TLP0690

- For 6 & 12 volt DC circuits only. Do not use on AC circuits
- Locate wire breaks, blown fuses, bad connections
- Detect shorts, check continuity of coils, relays & solenoids
- Features an alligator clip & metal probe
- The test bulb illuminates inside non-conductive handle



Extension Test Probe

48" Extension Test Probe with Cage Spring to Shrouded Right Angle Plug. For applications needing a thin, streamlined test probe. A variable electrode length probe permits testing on electronic components (small-outline transistors), where it is impossible to make a connection to the device with a probe that has anti-shock collars.



Color	Industry No.	Part No.
Black	BU2243D480	ATM101
Red	BU2243D482	ATM102

Banana Plug Leads

39" Shrouded Banana Plug—Both Ends. Insulated banana plugs have exclusive free rotation, nine-leaf beryllium copper, nickel-plated cage springs protected by rigid plastic sleeves. A constant positive contact with minimum resistance is provided by the plugs.



Color	Industry No.	Part No.
Black	BU6161M390	ATM103
Red	BU6161M392	ATM104

Insulated Plug-On Test Probe

Insulated Plug-On Test Probe with Stainless Steel Tip. Accepts 4mm insulated banana plugs. Positive contact up to 1000V is provided by the high quality 0.08" (2mm) stainless steel test point. The insulated body reduces risk of contact with voltage carrying parts with a tough safety shock guard collar.



Color	Industry No.	Part No.
Black	BU261010	ATM105
Red	BU261012	ATM106

Right Angle Insulated Plunger Hook Clips

Two tools in one—a BeCu contact hook and a probe tip with the plunger retracted. The hook extends 0.41" (10mm) when fully depressed.



Color	Industry No.	Part No.
Black	BU204310	ATM109
Red	BU204312	ATM110



Test Products & Clips

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Insulated Banana Jacks to Standard Banana Plug

This adapter lets you use insulated banana plugs with equipment having standard banana jacks.



Color	Industry No.	Part No.
Black	BU321010	ATM111
Red	BU321012	ATM112

Insulated Spade Lug

Insulated Spade Lug – Medium. Designed especially for terminal posts. Lug is nickel-plated brass. Fully insulated, axial mount 4mm banana jack.



Color	Industry No.	Part No.
Black	BU302120	ATM118
Red	BU302122	ATM119

Plug-On Safety Alligator Clip

Fully insulated and molded from high-strength, glass-filled nylon. Plastic shrouds completely cover metal parts. Rated to 1000V. IEC 1010 Compliant.



Color	Industry No.	Part No.
Black	BU-65-0	ATM120
Red	BU-65-2	ATM121

Banana Plug to Safety Test Product

Fully insulated and molded from high-strength, glass-filled nylon. Plastic shrouds completely cover metal parts. Rated to 1000V. IEC 1010 Compliant.



Color	Industry No.	Part No.
Black	BU4061M39	ATM122
Red	BU4061M392	ATM123

Safety Plunger Clip Hook

Safety plunger that mounts to a standard threaded probe with an 8-32 thread. The extended shroud adds an extra level of safety. Overall length is 2.37" (60 mm).



Color	Industry No.	Part No.
Black	BU002090	ATM124
Red	BU002092	ATM125



Right Angle Insulated Plunger

Right Angle Insulated Plunger Clamp Clip. For narrow hard-to-reach test points.



Color	Industry No.	Part No.
Black	BU204330	ATM130
Red	BU204332	ATM131

Insulated Banana Coupler

For extended test leads. Designed to prevent unintentional disconnections. 4mm banana plugs are accepted at both ends. 1000V, 15 Amp.



Color	Industry No.	Part No.
Black	BU326010	ATM132
Red	BU326012	ATM133

Banana Plug

Nickel-plated brass body, nickel-plated phosphor bronze spring; Insulator: ABS.



Color	Industry No.	Part No.
Black	BU002450	ATM134
Red	BU002452	ATM135

On-The-Go Pouch

Part No: STG0100

Typical usages:

- Use to tote parts & tools to job sites
- Emergency Repairs – pack as a “go bag” for specific equipment repairs
- Handy tote for vehicles – certificates, small repair tools & parts, flashlight, gloves, safety glasses
- Great for bench technicians’ tools & parts
- Segregate parts & tools per job or machine

Specs:

- Made of heavy canvas material
- Sturdy zipper enclosure
- Opens to 9" x 11-1/2" approx.
- Loop for easy hanging & carrying

A multi-purpose tote pouch.



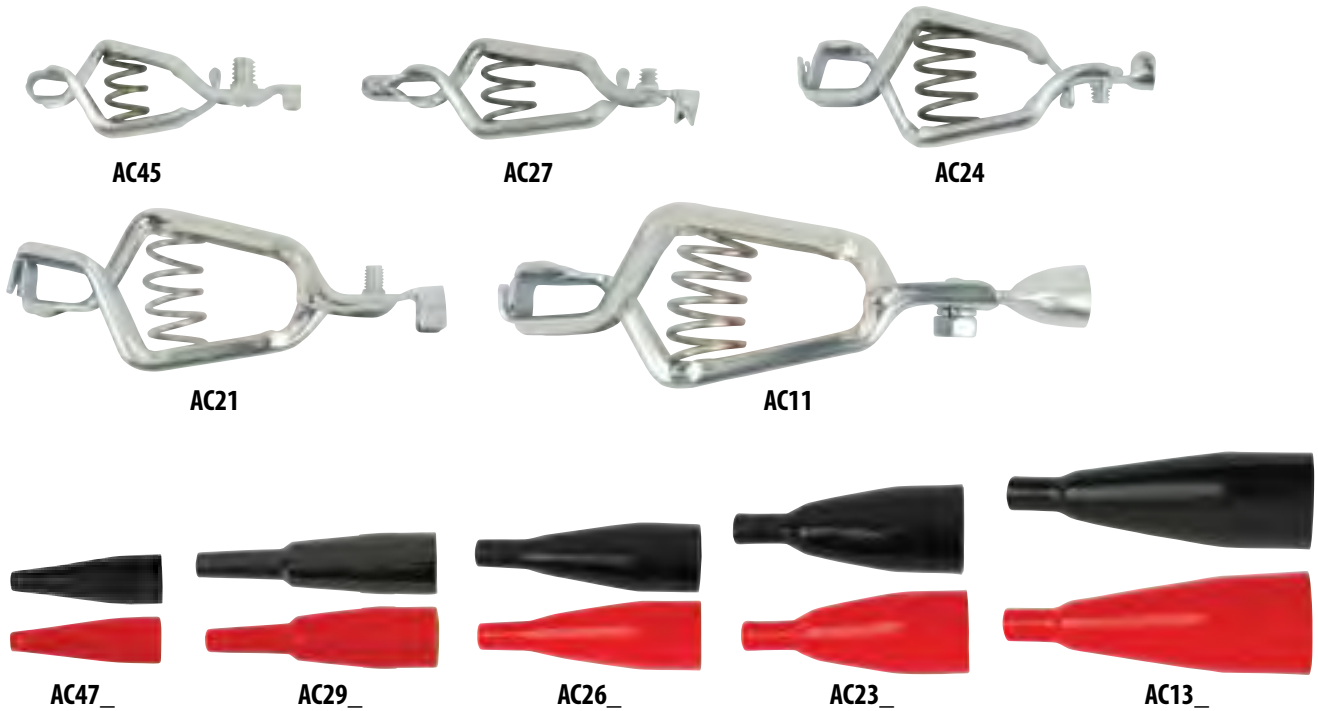
Tools not included.



Booster Cables & Clamps

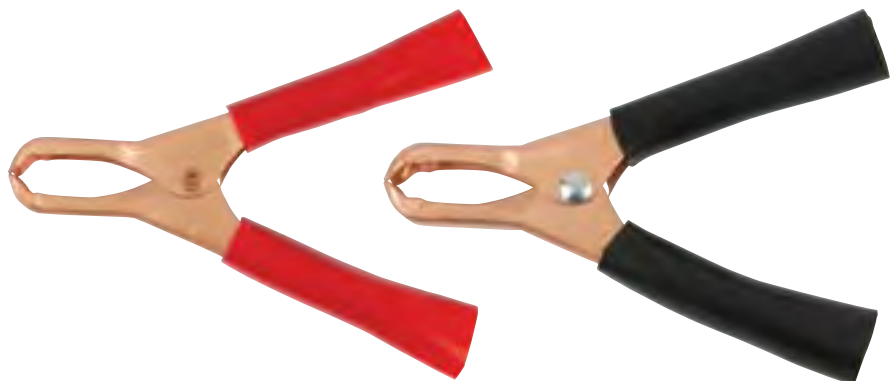
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Zinc Plated Steel Battery Clips & Booster Sets



Heavy Duty Test & Battery Clips: Zinc Plated Steel					
AMP Rating	Length (in)	Jaw Opening (in)	Clip Part No.	Insulating Boot Part No.	
				Red	Black
5	1-17/32	5/16	AC45	AC47RD	AC47BK
20	2-7/16	5/8	AC27	AC29RD	AC29BK
25	2-7/8	3/4	AC24	AC26RD	AC26BK
50	4	1-1/16	AC21	AC23RD	AC23BK
100	6	1-5/8	AC11	AC13RD	AC13BK

Pigmy Clip	
Part No.	
Red Insul.	Black Insul.
AC46ARD	AC46ABK





ATM128



AC60



AC62RD



AC62BK

Alligator Clips: Zinc Plated

AMP Rating	Length (in)	Jaw Opening (in)	Description	Clip Part No.	Insulating Boot Part No.	
					Red	Black
10	1-31/32	5/16	Barrel for banana plug	AC60	AC62RD	AC62BK
	2-1/8		#8-32 threaded barrel	ATM128	AC62RD	AC62BK



ATM60HSRD



AC60HSBK

Alligator Clips

AMP Rating	Length (in)	Jaw Opening (in)	Description	Part No.	
				Red Barrel	Black Barrel
10	2-11/32	5/16	Acetate color-coded barrel	AC60HSRD	AC60HSBK

Booster Cable Clamps (Sold in Pairs / 1 Red Black)

Amp Rating	Description	Part No.
400	Vinyl color-coded steel with copper jaws	BC200
500	Chrome-plated steel with parrot jaws	BC400
500	Vinyl color-coded steel with copper jaws	BC500



BCS16



BCSKIT

Booster Cable Sets

AWG	Length	Description	Part No.
4	16'	Color-coded tangle-free construction with storage bag.	BCS16
2	20'	Color-coded tangle-free construction. Thermoplastic elastomer cable insulation protects against grease, oil and abrasion.	BCS20
4	15'5"	Quick-connect plug-in Booster Cables. Permanently install plug-to-plug cable in service vehicle. Eliminates the need to open hood on service vehicle. Supplied with protective cap.	BCSKIT



Flashlights / Headlamps

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Flashlights



Spot

Flood

Dual

Green Flood

Green Flood
Green light enhances visual contrast.

Examining details and differences between objects.

Safety Rated Intrinsically Safe Headlamp

Part No: HTL0003

- Spotlight, two level white floodlight, colored floodlight
- Spotlight CREE® LED technology 50,000 hour life
- White/red/green floodlight LEDs 35,000 hour life
- Full or half power white floodlight for extended run-time
- Waterproof IP-X7
- Impact & chemical resistant
- Two switch light control
- Behind the head battery pack for comfort and balance
- Adjustable ratchet tilt headlamp
- Width: 3.3 in, Height: 3.3 in, Depth: 3.5 in, Weight: 9.5 oz
- Run-time hours: 14 spotlight, 12.5 floodlight at full, 70 floodlight at half, 6 dual-light, 37 green floodlight
- Class I, II, III, Division I, Groups A-G
- Uses three AA batteries-included



HTL0003





Sharp focus

HTL0004

Flashlight momentary/constant

Heavy duty pocket clip



cETLus Listed Intrinsically Safe for use in Class I II III Groups A, B, C, D E F, & G Hazardous Locations.

Intrinsically Safe Flashlight

Part No: HTL0004

- 120 Lumen CREE® XPE LED
- Sharp focused flashlight
- Momentary or constant-on
- 50,000 hour LED life
- Non-slip grip
- Textured push-button
- Uses three AA batteries—not included
- Rugged polymer housing
- Impact and chemical resistant
- Built-in pocket clip and lanyard
- Waterproof to 1 meter (IP67)
- Length: 7.0 in (178 mm), Head Diameter: 1.8 in (46 mm), Handle 1.0 x 1.3 (25 mm x 33 mm), Weight: 6.3 oz (178 g)



Non-slip grip

Floodlight

Lanyard



14.5 Hour Run-Time

5-1/2" Clamp Light

Part No: HTL0007

- Rated to handle up to a 75w, incandescent bulb (bulb not included)
- Adjustable ball joint for easy positioning
- Spring steel clamp with scratch resistant vinyl sleeve
- Push button switch
- 18/2 SPT-2 cord, 6ft



HTL0007



Flashlights / Headlamps

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Flashlights

Multi-Function Flashlight

Part No: HTL0021

- Two switch control & momentary or constant-on flashlight
- Full & half-power floodlight for extended run-time
- Flashlight - 1 LED/ 150 Lumens
- Floodlight - 60 LED/ 60 & 120 Lumens
- Dual-light - 61 LED/ 270 Lumens
- Length 10.9 in, Width 1.3 in, Weight 8.2 oz.
- Run-time hours: 10 hr. flashlight, 4 hr. floodlight at full, 10 hr. floodlight at half, 3 hr. dual light
- Water resistant
- Rugged engineered polymer housing
- Impact & chemical resistant
- Non-slip waffle grip, soft-touch finish

Included

- Flashlight
- Impact bumpers
- Clip magnet
- Dual-angle stand
- Four AA premium alkaline batteries



Pocket COB LED Flashlight

Part No: HTL0022

- COB LED – Extremely bright (do not look directly into light)
- 150 Lumens in a shirt pocket size flashlight
- Pocket clip allows for hands free use
- Strong magnet in base also allows for hands free use
- Weather resistant
- Impact resistant
- Up to 7 hours run time
- Uses 3 AAA batteries - included



Multi-Function Pocket Flashlight

Part No: HTL0005

- Single switch control to select flashlight or floodlight
- L 5.25 in, D 0.81 in x 1.1 in, Wt. 2.2 oz.
- Run-time hours: 4 flashlight or floodlight

Included

- Flashlight
- Metal pocket clip
- Two AA premium alkaline batteries





Rechargeable LED Work Lights

Part No: HTL0008

- Bright LEDs 35,000 hour life
- Impact, moisture and chemical resistant
- Rechargeable NiMH battery
- Heavy-duty rocker switch
- Magnet in body & top, includes hook for hands-free lighting
- AC & DC chargers included
- Charge time 8 hrs

Multi-Function Headlamp

Part No: HTL0002

- Spotlight, floodlight, dual-light
- Premium super bright white LEDs – 35,000 hour life
- Waterproof IP-X7
- Impact & chemical resistant
- Single switch light control
- Adjustable ratchet tilt headlamp
- Width: 2.44 in, Height: 1.75 in, Depth: 1.88 in, Weight: 3.7 oz
- Spotlight: 55 lumens, CREE® LED technology – 50,000+ hour life
- Floodlight: 40 lumens
- Dual-Light: 80 lumens
- Run-time hours: 6 spotlight, 8 floodlight, 5 dual-light
- Includes 3 premium AAA alkaline batteries & non-slip elastic head strap



HTL0008



HTL0002



Batteries

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Batteries



DURACELL® alkaline and ENERGIZER® industrial-grade alkaline batteries.

Size	Part No.
AAAA	BAT4A
AAA	BAT3A
AA	BAT2A
C	BATC
D	BATD
6-Volt	BAT6V
9-Volt	BAT9V



Size	Part No.
AAA	BATD3A
AA	BATD2A
C	BATDC
D	BATDD
9-Volt	BATD9V



Type	Part No.
1.5 Alkaline	LR44
3V Lithium	CR2032



LR44



CR2032



Marking Tools



Paintstik Markers	
Color	Part No.
Black	CHP1BK
Orange	CHP1OE
Red	CHP1RD
White	CHP1WE
Yellow	CHP1YW



Valve Action Paint Markers	
Color	Part No.
Black	CHP2BK
Orange	CHP2OE
Red	CHP2RD
White	CHP2WE
Yellow	CHP2YW
Replacement Tips	CHPT



Lumber Crayon "Keel"	
Color	Part No.
White	CHP3WE
Yellow	CHP3YW



Replacement tip available.



Marking Pen Extra Fine Point	
Color	Part No.
Black	MPBK



Soapstone Marker & Holder	
Description	Part No.
5" x 1/2" x 3/16" flat	ST05
Holder for flat soapstone	ST06



Brushes

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BRS10

BRS20

BRS21

Wire Brush	
Description	Part No.
Carbon steel wire 10" × 3/8"	BRS10
Stainless steel fill 7-1/2" × 1/2"	BRS20
Brass fill 7-1/2" × 1/2"	BRS21



Paint/Chip Brush		
Description	Size (in)	Part No.
Chip wood	1	BRS31
	2	BRS32
	3	BRS33



Acid Brush	
Description	Part No.
Long metal handle (disposable)	BR38



Broom Saver	
Description	Part No.
Also for scrapers & squeegee heads	BRBS1



Wall Scraper	
Blade Size (in)	Part No.
3	PKS21



Putty Knife	
Blade Size (in)	Part No.
1-1/4	PKS11
2	PKS12



Joint Knife	
Blade Size (in)	Part No.
4	PKS31
6	PKS32



Long Cotton Tip Applicator	
Length (in)	Part No.
6	ST07



Depressor Style Mixing Stick	
Length (in)	Part No.
6	ST08





Utility Knives

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Folding Utility Knife

Part No: ST12

- Push button for easy opening/closing
- High quality triple ground blades stay sharper for longer
- Rubber grips for improved comfort and control
- A heavy duty durable design
- Pocket clip on back



Utility Knife Dispenser

Part No: ST13

- Comes with 50 blades
- High quality triple ground blades stay sharper for longer
- Includes a built in gauge on the dispenser that indicates the number of blades remaining
- Convenient storage for used blades
- Compatible with all standard utility knives



ST01

ST02



Utility Knife	
Description	Part No.
Heavy-duty	ST01
Razor blades for ST01 utility knife	ST02





Mini Utility Knife	
Description	Part No.
Pocket-size	ST09
Razor blades for ST09 utility knife	ST10



ST09

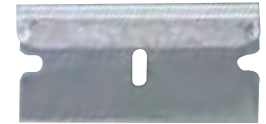


ST10

Safety Scraper	
Description	Part No.
Heavy-duty metal	ST03
Razor blades for ST03 safety razor	ST04



ST03



ST04

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Pre Marked Valve Tags

- Easy to read brass tags with black filled letters & numbers
- 1" diameter
- All tags are 18 gauge & have a 3/16" hole

Description	Part No.
1" brass – 1 to 25	VTNS1
1" brass – 26 to 50	VTNS2
1" brass – 51 to 75	VTNS3
1" brass – 76 to 100	VTNS4



#VTH78

S-Hook Links

- Brass 7/8" long
- For quick permanent fastening of brass tags



Blank Brass Valve Tags

Great for use with our steel hand stamps.

Description	Size	Hole Size	Part No.
Round	1-1/2"	3/16"	VTB1
Square	1-1/2"	3/16"	VTB2
Round Corners	1" x 2-1/2"	1/8"	VTB3



Hand Stamps

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1/8" Set - Part No. SHSS1	
Character	Part No.
0	SHS10
1	SHS11
2	SHS12
3	SHS13
4	SHS14
5	SHS15
6**	SHS16
7	SHS17
8	SHS18
A	SHS1A
Ampersand (&)	SHS1AMP
B	SHS1B
C	SHS1C
Comma (,)	SHS1CA
D	SHS1D
E	SHS1E
F	SHS1F
G	SHS1G
H	SHS1H
I	SHS1I
J	SHS1J
K	SHS1K
L	SHS1L
M	SHS1M
N	SHS1N
O	SHS1O
P	SHS1P
Period (.)	SHS1PER
Q	SHS1Q
R	SHS1R
S	SHS1S
Slash (/)	SHS1SLA
T	SHS1T
U	SHS1U
V	SHS1V
W	SHS1W
X	SHS1X
Y	SHS1Y
Z	SHS1Z

1/4" Set - Part No. SHSS2	
Character	Part No.
0	SHS20
1	SHS21
2	SHS22
3	SHS23
4	SHS24
5	SHS25
6**	SHS26
7	SHS27
8	SHS28
A	SHS2A
Ampersand (&)	SHS2AMP
B	SHS2B
C	SHS2C
Comma (,)	SHS2CA
D	SHS2D
E	SHS2E
F	SHS2F
G	SHS2G
H	SHS2H
I	SHS2I
J	SHS2J
K	SHS2K
L	SHS2L
M	SHS2M
N	SHS2N
O	SHS2O
P	SHS2P
Period (.)	SHS2PER
Q	SHS2Q
R	SHS2R
S	SHS2S
Slash (/)	SHS2SLA
T	SHS2T
U	SHS2U
V	SHS2V
W	SHS2W
X	SHS2X
Y	SHS2Y
Z	SHS2Z

Steel Hand Stamps



Sets
1/8" SHSS1
1/4" SHSS2



Heavy-duty grade stamps for hand-held hammer struck applications.

- Heavy-duty marking performance
- Tempered shackles for extra durability & safety
- Marked with character designation and sign on thumb side

Utilized when an impression must be made into metals, plastics, wood or other materials.

Combination letter & number sets contain 36 pieces — A through Z, period, 1 through 8

**6 doubles as 9, all packed in a sturdy metal index.



Solder

Part No: 366

General purpose solder suitable for all electrical joints.

- 60% tin and 40% lead (60/40)
- Constructed with 5 cores of activated rosin flu
- One pound spools
- (.062)



Solder

Part No: 368

Same as 367 solder, but available in pound spools.

- 60% tin and 40% lead (60/40)
- Constructed with 5 cores of activated rosin flu
- One pound spools
- (.032)

Solder

Part No: 367

A thin, fast-fl wing, non-corrosive solder for micro-electronic components, printed circuits & fin - wire applications.

- 60% tin and 40% lead (60/40)
- Constructed with 5 cores of activated rosin flu
- Dispenser Pack
- .032 (22 gauge) dia., 18 grams



Solder Wick



Part No: 364

- 0.075" Static free bobbins
- Residue does not require cleaning
- 5ft. lengths



Silver Bearing Solder Paste



Part No: 370

- Five times stronger than ordinary solder
- Flows freely with the heat of a torch, soldering iron or open flam
- Reaches where other solders cannot
- Can be used on almost any metals including stainless steel; no flux required
- 10,000–25,000 PSI tensile strength
- Melting Temperature – 430°F (reduces problem of metal distortion), Re-melt Temperature – 650°F
- Finish joint is silver
- Prevents soldering failure due to jarring or moving of parts while soldering because of its instant setting
- No mess, no waste syringe
- 7.1 grams in a syringe applicator





Solder

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Solder Slugs



Create reliable battery terminal connections using solder slugs. This innovative solution provides a cost effective and time saving connection between battery terminals and battery cable. Each solder pellet is pre-measured to ensure the correct amount of solder is used for each wire size. Color coding eliminates guesswork and ensures maximum reliability for each connection. Solder slugs are strong enough to prevent pull-out failure, yet removable through reheating to allow for replacement of terminals without cutting through cable.

- Pre-Formed
- Pre-Measured
- Color-Coded
- No Crimping Needed
- Removable

AWG	Color	Part No.
6	Gray	SPELLET6
4	Gray	SPELLET4
2	Green	SPELLET2
1	Pink	SPELLET1
1/0	Black	SPELLET1Ø
2/0	Orange	SPELLET2Ø
3/0	Purple	SPELLET3Ø
4/0	Yellow	SPELLET4Ø

For additional corrosion protection, finish sealing with heat shrink tubing



Rosin Flux
Part No: 365
Liquid, 4 oz.



Flux Remover

Part No: CHM04

15 oz. can. Excellent for cleaning soldering iron tips, heavily-oxidated contacts, connectors and tape heads. Variable rate control valve controls rate of flow.



Rough Rags

High absorbency rate & capacity

Rough Rags absorb and retain large amounts when used to wipe up oils, industrial fluids and liquids.

Stands up to virtually any solvent

Rough Rags are made with a method called hydroentangling. Cellulose is injected through a Polypropylene staple, using water at extreme pressure. This causes the fibers to entangle. With this method, no binders (such as latex) are used. Without binders your rags will not break down when used to wipe solvents and corrosives.

Very low lint

Rough Rags' manufacturing technique assures they leave an absolute minimum of fibers and lint.

Safer than "red rags"

It's impossible for these rags to be contaminated by solvents that did not launder out completely or metal shavings that could be embedded in the shop towel the user doesn't see.

Stronger wet than dry

Rough Rags actually get stronger when they are wet. They retain their full strength even when saturated with fluid . There is no danger of them falling apart simply because they are wet.

Proprietary blend of fibers

Rough Rags are made from a proprietary blend of fiber . We use only the highest quality raw materials.

- Cellulose for maximum absorbency
- Polypropylene for excellent strength & durability

Pop-up dispensing box

Rags stay clean in the box until used. Easy one rag at a time dispensing.



- 100 rags per box
- Wipe Size: 9.5" x 17"
- Can be dispensed from the top or bottom
- Made in USA
- Available in single boxes or by the case (9 boxes per case)

Description	Part No.
Single Box of Wipes	SHP0006
Case of 9 Boxes of Wipes	SHP0006C





Rags

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Hermitex® Textured cleaning & polishing cloth

Part No: SHP0007

This is the preferred wiping cloth of the aerospace industry. Manufactured from 100% purified cotton fiber, its bright white fibers are non-abrasive yet strong enough for many wiping and polishing applications in the aerospace industry.

- 100% cotton fiber
- "Purified" to reduce extractables to minimal levels; assures compatibility with solvents such as MEK and Toluene
- Starch and silicone – free for use in all critical aerospace applications
- Extremely low lint factor; virtually no surface fibers are generated
- Appearance resembles cheesecloth but its twisted yarns and loose construction provides a softer finish with more surface area to trap contaminants
- Perfect for use with Tex-Whiz® and many other aviation windshield polishes and cleaners because it is non-abrasive
- Qualified on many aerospace material specifications including Lockheed Martin Aeronautics P5396-1, Douglas 1820, Boeing 15-5F and AMS 3819
- Can be used as a direct replacement for Rymplecloth®
- 100 precut and layered pieces, each 36" wide (folded four ply) and 14" in length per roll



Tex-Whiz
CHM0008







CHEMICALS

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USE LPS 1® PREMIUM LUBRICANT TO KEEP YOUR BUSINESS AFLOAT

Part No: ASL1



LPS 1° saves potentially water-damaged equipment by penetrating and displacing water allowing a faster start-up. Plus, it cleans, lubricates, and continues to provide greaseless protection that resists dust or dirt.

LPS 1° contains no harmful chlorinated solvents, so it's safer to use on paint and plastics. The high flash point of 175°F (79°C) per TCC testing method, provides an extra degree of safety in the industrial work place.

USE LPS 1° TO HELP SAVE & PROTECT

- | | |
|------------------------|--------------------|
| ■ Air Conditioners | ■ Micrometers |
| ■ Appliances | ■ Nuts and Bolts |
| ■ Automatic Chokes | ■ Office Machinery |
| ■ Electronic Equipment | ■ Outdoor Outlets |
| ■ Gauges | ■ Precision Tools |
| ■ Ignition Systems | ■ Robotics |
| ■ Locks and Hinges | ■ Wiring Contacts |

ELECTRICAL PARTS

Spray electrical parts liberally with LPS 1° to remove water and contaminants. LPS 1° cleans, lubricates, and protects delicate mechanisms. Allow to dry overnight before start-up. LPS 1° has a dielectric strength of 32 kV.

MECHANICAL PARTS

Use LPS° cleaners to remove heavy dirt and sludge, then flush equipment with LPS 1° to displace moisture and inhibit short term corrosion. Restart immediately. Great for ri°es.



Cleaning and Protecting INDUSTRIAL EQUIPMENT from sludge and soils with LPS.

Do you need to remove soil, dirt, and water contamination from metal parts?

STEP 1:

CLEANUP AFTER FLOOD DAMAGE



Part No: AS15

(Option A)

Precision Clean
Multi-Purpose Cleaner/Degreaser

Purpose: Removes tough stains and soils using a biodegradable degreaser.



Part No: AS13

(Option B)

PreSolve®
Orange Degreaser

Purpose: Removes heavy grease, oils, or sludge.

STEP 2:

PROTECTING THE METAL PARTS ON YOUR EQUIPMENT



(Option A)

LPS 1®
Premium Lubricant

Purpose: Displaces moisture and provides short term corrosion protection (30 Days).

Part No: ASL1



(Option B)

LPS 2®
Heavy-Duty Lubricant

Purpose: Provides up to 1 year of corrosion protection (Indoor Parts).

Part No: ASL2



(Option C)

LPS 3®
Premium Rust Inhibitor

Purpose: Provides up to 2 years of corrosion protection (Indoor Parts).

Part No: ASL3



Chemicals

Cleaning and Protecting **ELECTRICAL EQUIPMENT** from flood contaminants with LPS.

Do you need to clean light oils and water damage on electrical/electronic parts?

STEP 1:

CLEANUP AFTER FLOOD DAMAGE

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(Test for compatibility with plastics)



(Option A)

NoFlash®

Electro Contact Cleaner

Purpose: Removes light oils remaining electrical/electronic parts.

Part No: AS40

(Safe on all Plastics)



(Option B)

PSC

Plastic Safe Cleaner

Purpose: Removes contaminants from electrical/electronic parts without harming sensitive plastics. **Part No:** AS38



Electro

Contact Cleaner

Purpose: Removes contaminants from electrical/electronic parts without harming sensitive plastics. **Part No:** AS39

STEP 2:

PROTECTING AND PREVENTING DAMAGE TO YOUR ELECTRICAL PARTS



(Option A)

LPS 1®

Premium Lubricant

Purpose: Displaces moisture and provides short term corrosion protection (30 Days)

Part No: ASL1



(Option B)

LPS 3®

Premium Rust Inhibitor

Purpose: Lubricates, seals, and restores sensitive electrical connections.

Part No: ASL3



LPS Icon Legend

- DETEX contains metal detectable aerosol plastic components
- Inverta Spray Valve: For hard-to-reach areas, this valve allows spraying in upright & inverted positions

- NSF Nonfood Compounds Registration: Continuation of USDA product approval for chemical products used in food
- Lubricants With Incidental Contact
- Lubricants with No Food Contact
- General Use Cleaner
- Cleaner & Degreaser use in Non-Processing Areas
- General Cleaners with no Food Contact
- Solvents for Cleaning Electronic Instruments



Metal detectable plastic components for Food Processing.



LPS® DETEX™ Metal Detectable Plastic Components are designed to assist food processing plants in meeting strict HACCP requirements regarding the use of LPS® NSF® products.

Universal blue color for all Metal Detectable plastic components easily identifies them as a non-food object.

Aerosol Cap

Actuator

Alignment dot.

Highly visible NSF® labeling.



Scan to watch an LPS DETEX™ video on your phone.





Penetrants & Lubricants

MADE IN USA



KB88 Penetrant

Part No: AS28

13 oz. Formulated to attack and quickly release rusted and corroded nuts, bolts hinges and other frozen components. High Kb solvency & low surface tension. Penetrates faster and deeper than most other similar products in the market. Displaces moisture, aggressive formula, NSF registered H2 and VOC Compliant in all 50 states. A-A-50493 Class B Type I & II. Our most popular penetrant!



FoodLube Synthetic Penetrant

Part No. AS76

Synthetic formula fortified with PTFE for increased lubricity & life. Excellent penetration through rust, scale, grease, dirt and grime. Leaves a lubricating film that provides short term corrosion protection. Fast acting formula for quick release of seized & corroded threaded fasteners. Food Grade – NSF registered H1. DETEX™ components.



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LST Penetrant

Part No: AS02

11 oz. Meets or exceeds: **Federal Spec. VV-P-216C Type I, A-A-50493 Type I.** Specially formulated with low surface tension for fast penetrating action. Powerful foaming action provides complete surface coverage. No chlorinated solvents. Inverta Spray Valve allows one to spray in an upright or inverted position.



LPS 1™ Greaseless Lubricant

Part No: ASL1

11 oz. Meets or exceeds: **MIL-C-23411A, para. 3.1.1, 3.2-3.11, Rolls-Royce Overhaul Process 340.** Dry, thin lubricating film. Fast-acting penetration. Short term, light, corrosion resistant barrier. Nonconductive. Used worldwide in aviation. Resists oil, dust and dirt build-up. Displaces moisture. Loosens rusted or frozen parts. Ideal for delicate mechanisms. Safe on paint and most plastics.



Corrosion X – Aviation

Part No: AS27

16 oz. Formulated to displace moisture, stop corrosion on contact and provide long-lasting protection and lubrication. Contains no silicones, waxes or dangerous solvents. Ideal for exhaust and turbocharger components. Conforms to **MIL-C-81309E.**



LPS1® Wipes

Part No: ASL1W

Removes carbon buildup that other lubricants cannot. Resists oxidation and varnish formation. Displaces moisture and removes contaminants. Does not attract dust. Safe on case hardening, bluing, military coatings and plastics. Short term metal protection. Reduces wear caused by friction and corrosion. Goes on wet and leaves a dry film. Promotes clean bore



LPS 2™ Industrial-Strength Lubricant

Part No: ASL2

11 oz. An excellent protective coating for hand and machine tools, parts and equipment. Meets or exceeds: MIL-C-16173D Grade 3 Class I, para. 3.3, 3.4, 3.7-3.11, MIL-C-81309D Type III, para. 3.4-3.5. Reduces wear caused by friction and corrosion. Loosens rusted or frozen parts. Nonconductive. Spray in an upright or inverted position. Provides up to one year of corrosion protection. Safe on paint and most plastics.



Clear Penetrating Grease

Part No: AS54

High performance and versatile lubricant fortified with PTFE. **Goes on as a penetrant then gels up to a grease.** NSF Certified H1. Quick penetrating action. Resists water wash out. High tack. Protects against corrosion. Features DETEX™ metal detectable plastic aerosol components (cap, actuator).



Magnum Premium Lubricant with PTFE

Part No: AS06

11 oz. High-performance lubricant with PTFE additives. Penetrates and protects metal against rust and corrosion. Inverta Spray Valve allows one to spray in an upright or inverted position. Safe to use on most surfaces.



Dry Film PTFE Lubricant

Part No: AS48

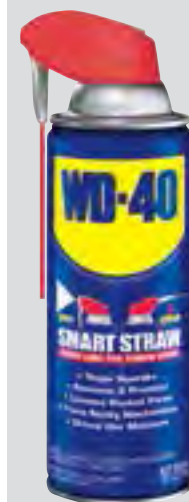
12 oz. Does not contain silicone or chlorinated solvents. Provides excellent lubrication. Excellent for high-temperature applications up to 500°F (260°C). Dry, thin film on't attract dust or dirt. Ideal for releasing molded parts. Nonflammable. Safe on most surfaces.



WD40 Industrial

Part No: AS59

16 oz. Stop squeaks, cleans and protect metal objects, loosen rusted parts, frees sticky mechanisms, drives out moisture.



WD40 Smart Straw

Part No: AS60

Use WD-40 to protect and lubricate thousands upon thousands of items – without ever losing the straw again! The Smart Straw features a permanently attached straw that sprays two ways. Simply flip it up or a precision stream and down for a regular spray action. Stop squeaks, cleans and protect metal objects, loosen rusted parts, frees sticky mechanisms, drives out moisture.



Penetrants & Lubricants

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Freeze & Release

Part No: AS63

Loctite Freeze & Release instantly freezes seized and rusted part (nuts, bolts, studs) down to -45° (-43°C). The exceptional shock-freeze effect causes microscopic cracks in the layer of rust, allowing the lubricating ingredients to wick directly into the rust by capillary action. The assembly can be easily dismantled after allowing 1-2 minutes of penetrating time. Released parts remain lubricated & protected from **CORROSION**. To watch a product demo search: Loctite Freeze & Release Penetrating Oil



Silicone Electrical Grade Lube Spray (Flammable)

Part No: AS94

10 oz. Lubricates, waterproofs and protects mechanical and electrical components. Clings firmly. Temp range of -40°F to 400°F.



NSF: H1



Dry Film Silicone Lubricant

Part No: AS47

12 oz. Colorless, thin film. No odor. Nonstaining. Excellent for releasing molded parts. Nonflammable. Noncorrosive.



Heavy-Duty Silicone Lubricant

Part No: AS09

13 oz. Ideal for surfaces like rubber and plastics, where petroleum products cannot be used. Eliminates sticking, binding and squeaking. Meets USDA requirements for H1. Ideal for rubber and plastic surfaces. Does not contain chlorinated solvents. Features DETEX™ metal detectable plastic aerosol components (cap, actuator).



Food Grade Silicone Lubricant

Part No: AS18

10 oz. Great for food processing and handling applications. Meets or exceeds: **FDA regulation 21 CFR 178.3570 for Incidental Food Contact**. Meets FDA regulation for incidental food contact. Dry film will not attract dust or dirt. Ideal for releasing molded parts. Applications up to 500°F (260°C). Features DETEX™ metal detectable plastic aerosol components (cap, actuator).



Food Grade Machine Oil NSF H1

Part No: AS17

Registered for use in meat and poultry plants. Safe on most surfaces. **USDA H1**. Meets **FDA 21-CFR-178.3570**. Does not contain silicone. Detex components. Features DETEX™ metal detectable plastic aerosol components (cap, actuator).





MADE IN USA



Foodlube Chain Spray – Synthetic Lubricant

Part No: AS71

Long lasting synthetic formula. Food Grade, NSF H1 registered. DETEX™ metal detectable components. For highly effective lubrication and protection of all types of chains and conveyors. Good for stringent hygiene standards areas such as food, beverage and pharmaceutical production lines. Synthetic formula extends chain life. Excellent penetrating and load carrying properties protects inside rollers, links pins, etc. Powerful foaming action penetrates chain bushings & pins.



Chainmate™ Chain and Wire Lubricant

Part No: AS07

11 oz. Fortified with molybdenum disulfid . Deep penetration to the core of wire ropes. Effective under extreme temperature and pressure ranges. Increases the life of chains and wire ropes. Reduces wear caused by friction and corrosion. High adhesion.

CRC 2-26 Penetrant

Part No: AS29

13 oz. Cleans, lubricates, penetrates and loosens corrosion.



NSF: H2

TKX All-Purpose Penetrant, Lubricant and Protectant

Part No: AS03

11 oz. Loosens rusted or frozen parts. Inverta Spray Valve allows one to spray in an upright or inverted position





Penetrants & Lubricants

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Force 842™ Dry Moly Lubricant
Part No: AS08
 11 oz. Ideal for break-in lubrication applications and for preventing sliding or threaded parts from seizing together. Fortified with molybdenum disulfide. For assembly and break-in lubrication. Prevents seizure of parts. Works under high temperatures – 842°F (450°C) and pressures – 100,000 psi (6890 Bars). Provides a quick drying, thin film

MADE IN USA



Industrial Di-Electric Grease
Part No: AS51
 Non-curing silicone compound used for electrical connections and components. Improves electrical performance in adverse weather conditions. Flammable. Use on: electrical panels, outdoor lighting, scoreboards, traffic lights, high voltage poles, transformers, disconnects, switching mechanisms, electrical contacts, spark plugs, battery terminals, fasteners, o-rings, rubber and plastic parts.

MADE IN USA NSF: H2



Di-Electric Grease
Part No: TL9800D
 A special electrically nonconductive grease.

MADE IN USA



Belt Dressing
Part No: AS04
 10 oz. Prevents belt slippage on flat, round and V-belts. Meets USDA requirements for P1. Can be used in wet outdoor conditions. Features DETEX™ metal detectable plastic aerosol components (cap, actuator).

MADE IN USA **H1** **NSF** **D**



Tapmatic® Edge Creme

Part No: AS33C

11 oz. Excellent for vertical applications. Can be applied to cutting tools before tapping or reaming. For use when drilling, tapping blind holes, forming, bending, pre-coating fasteners and lubricating rubber seals. Biodegradable. Squeeze tube allows easy application. Does not contain any hazardous chemicals. Ecological and economical. Safe on all metal.



Tapmatic® #1 Gold Cutting Oil

Part No: AS33L

16 fl. oz. Designed for all metals. Meets or exceeds: **Boeing BAC 5008**. For steel and aluminum. Does not contain chlorinated paraffin, water, solvents or inactive filler. For low speed, high-pressure applications. Pinpoint stream with foaming action.



AS33 Cutting Oil

Part No: AS33

12 oz. Used in sawing, drilling, reaming and pipe threading or cutting. Clings to vertical surfaces. For ferrous and nonferrous metals. Excellent cooling and anti-weld properties. Improves cutting tool efficiency and tool life.





Aerosol Grease



Red & Redi Multi-Purpose Red Grease

Part No: ASGRD

11 oz. Exceptional adhesive and cohesive properties resists throw-off at high speeds. Penetrates quickly. Resists shock. Remains effective at high temperatures 550°F (299°C).

**MADE IN
USA**



White Lithium Multi-Purpose White Grease

Part No: ASGWE

10 oz. Contains corrosion inhibitors that protect metal in any weather. PTFE additives for superior lubrication.

**MADE IN
USA**

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ThermaPlex® Multi-Purpose

Part No: CHG05

Bearing Grease. For use as a high performance, multi-functional bearing grease in general purpose applications. 14 oz.



ThermaPlex® Hi-Load

Part No: CHG06

Bearing Grease. Provides long-lasting lubrication for heavily loaded bearings, or bearings subjected to shock loading and vibration. 14 oz.



ThermaPlex® Hi-Temp

Part No: CHG07

For use in environments that require exceptionally high temperature resistance, remain stable and resist carbonization. 14 oz.



ThermaPlex® AQUA

Part No: CHG08

Formulated to resist water wash out, and to provide long lasting lubrication even when fully submerged in fresh or salt water. An environmentally friendly alternative bearing grease for applications where contamination of the environment is a concern. 14 oz.



ThermaPlex® Food Lube

Part No: CHG09

Bearing Grease. An NSF® registered H1 bearing grease engineered for the effective lubrication and protection of all types of ball, roller, and plain bearings in the food and other clean industries. 14 oz. With Detex Cap



Bearing Greases – 14 oz.

Part No: CHG01

White, lithium-based, multi-purpose grease. USDA rated H2.

Part No: CHG02

Amber, lithium based, general-purpose grease.

Part No: CHG03

Black, extreme pressure moly-graph, multi-purpose grease.

Part No: CHG04

Blue, tacky grease, natural water resistance for marine and boat trailer use.





Corrosion Inhibitors



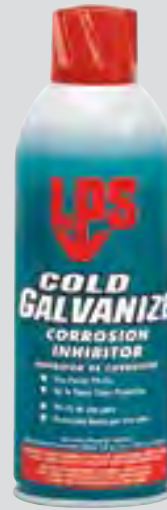
LPS 3™ Heavy-Duty Rust Inhibitor

Part No: ASL3

11 oz. Leaves a soft, self-healing, waxy film that resists moisture. 500+ hours of salt spray resistance. Meets or exceeds: Boeing BMS-3-23F Type II, MIL-C-0083933A, para. 3.2-3.16, MIL-C-16173D Grade 2 Class I, DMS 2150, Airbus TN A.007.10138 Type I Grade 2. Protects up to two years. Self-healing, waxy film. Safe on rubber, fabric, plastics and paints.



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Cold Galvanize

Part No: AS36

14 oz. 95% zinc-rich galvanized coating. Works like a hot-dip on ferrous metals indoors/out. Three-year protection. Flexible coating will not yellow, chalk, crack or peel. Electrochemically protects bare metal. Commonly used as a flash rust preventative on welded areas. Withstands water temperature up to 212°F (100°C) and continuous dry heat up to 750°F (400°C).



Seal Coat

Part No: AS61

Polyurethane coating that insulates electrical equipment and seals out water and moisture. The red formula allows for visualization of equipment.





Instant Super Degreaser

Part No: AS44

20 oz. Power blast spray. NSF registered category C1. Nonflammabl . Nonconductive. No rinsing. Safe on most metals (as per MIL-T-81533A).



Precision Clean Multi-Purpose Cleaner/Degreaser

Part No: AS15

18 oz. Foaming action clings to vertical surfaces. Meets or exceeds: **McDonnell Douglas CSD #1, Boeing D6-17487 Rev. H, AMS1526A.** Water-based. Contains a corrosion inhibitor to help prevent flash rustin . Does not contain chlorinated or petroleum solvents, bleach, ammonia, abrasives or butyl. Biodegradable. Nonflammabl . pH Ready-to-Use = 12.5.



Presolve® Citrus Degreaser

Part No: AS13

15 oz. Especially suited for removing grease, adhesives, tars and oils. Meets or exceeds: **McDonnell Douglas CSD #1, Boeing D6-17487 Rev. H.** High-performance citrus based degreaser. Does not contain chlorinated solvents. Spray in an upright or inverted position. Dielectric 30,000V. Flash Point above 100°F (38°C).



ZeroTri Heavy-Duty Degreaser

Part No: AS10

15 oz. Fast evaporating. Nonconductive. Ideal for degreasing metals. No residue. Instant degreasing action. Does not contain chlorinated solvents. Spray in an upright or inverted position. Our Strongest Degreaser!



F-104° Fast-Dry Solvent/Degreaser

Part No: AS45

15 oz. 104°F (40°C) flash poi t. Low odor. Nonconductive. Complies with Aerospace NESHAP for wipe solvents. Rapid evaporation. No rinsing or residue. Safe to use on most surfaces (may be harmful to some plastics). Inverta Spray Valve.



Quality Care™ Spot and Stain Remover

Part No: AS53

18 oz. Deep cleans down to the carpet backing. Gets out tough stains like coffee, cola, juice and oil.





Degreasers/Cleaners



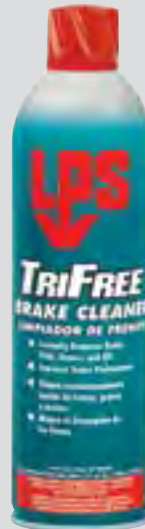
3M™ High Power Brake Cleaner

Part No: AS72

Blasts away dirt, dust, brake fluid, and other contaminants from all types of brake assemblies. Fast cleaning action quickly softens & dissolves grease and oil. Unique chemistry with low odor, dries quickly, leaves no residue, and helps eliminate brake noises due to surface contamination. Contains no Chlorinated Solvents. NOTE: May instantly damage paint and some plastics. Avoid contact with automotive finishes and decorative finishes.



Not for sale in low V.O.C. states: CA, CT, DE, DC, IL, IN, ME, MD, MA, MI, NH, NJ, NY, OH, PA, RI, and northern VA. See AS82 Brake Cleaner.



Tri-Free Brake Cleaner

Part No: AS26

15 oz. Heavy-duty solvent instantly removes brake fluid, grease and oil. Fast evaporation. No chlorinated solvents and no residue. Extremely flammable. Power blast spray.



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3M™ Low V.O.C. Brake Cleaner

Part No: AS82

Cleans brake parts and assemblies without leaving residue – dries quickly. Large, ergonomic actuator delivers high-powered stream to remove tough deposits. Helps eliminate brake noises due to surface contamination. Good general-purpose degreaser. Less than 10% V.O.C. (volatile organic compounds) and does not contain any chlorinated solvents. Meets V.O.C. requirements in all 50 states

NOTE: Cleaner may instantly damage paint and some plastics. Avoid contact with automotive finishes and decorative finishes.



Battery Protector Washers



Protect against corrosion, prolong life of batteries, connectors and cables. Fiber washers impregnated with corrosion protective chemicals
100 washers per container.

Battery Type	Part No.
Post	BPP
Stud	BPS
Side mount	BPSM



AS88

AS87

AS86

Battery Cleaner with Acid Indicator



Part No: AS88

- Penetrates, loosens and neutralizes acid corrosion deposits
- Sprays on yellow and turns to a pink foam where acid is present
- Helps eliminate energy loss with regular use.

Battery Terminal Protector Spray



Part No: AS87

- Resists battery corrosion and prolongs battery life
- Lead free formula

Battery Cleaner Spray



Part No: AS86

- Penetrates, loosens and neutralizes all acid corrosion deposits
- Helps eliminate energy loss with regular use



A-151 Solvent Degreaser

Part No: AS42

The quick penetrating action of A-151 has a flash point above 140°F that allows it to be used in areas where flammability poses a potential problem. It works its way into hard to reach areas, cleaning equipment and parts thoroughly with no need to disassemble equipment to be cleaned. It has a mild odor and is nonconductive. VOC exempt per EPA and CARB guidelines. Removes oil, grease, and other contaminants
NSF: C1.



OCX Citrus Degreaser

Part No: AS12

15 oz. Fast acting on grease, oil and sludge. Nonconductive. Spray in an upright or inverted position. Flash Point above 100°F (38°C).



EFX Solvent/Degreaser

Part No: AS35

11 oz. Removes grease and oil. Fast evaporating. No residue. Power blast spray. Nonchlorinated. Safe to use on most surfaces. Power blast spray.



HDX Heavy-Duty Degreaser

Part No: AS43

19 oz. Nonflammable. No residue. Removes oil, grease, wax, dirt, moisture, tar, brake fluid and other contaminants. Dielectric 30,000V.



3M Carburetor Cleaner

Part No: AS78

Powerful penetrating ingredients remove varnish, resins and gums from carburetors and chokes. High delivery rate flushes way loosened deposits. Oxygen sensor safe. Contains less than 75% VOC.



Electric Motor Cleaner

Part No: AS31

Removes grease, tar, adhesives and oil from motors. Nonflammable. Nonstaining. Noncorrosive. Safe on all metal surfaces.





Degreasers/Cleaners

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Lectra Clean

Part No: AS55

19 oz. Heavy-duty electrical parts degreaser. Removes grease, tar, etc. Cleans air tools, clutches, wire rope, motors, dies, etc. Use caution on some plastics. Dielectric strength 36,000 volts. Chlorinated. No flash point or residue.



FoodLube Sugar Dissolver

Part No: AS75

Rapidly dissolves and removes sugars and fondants from applications commonly found in food, pharmaceutical and other clean environments (fondant – a thick, creamy sugar paste, the basis of many candies). Leaves a light, durable lubricating film on the surface to help prevent new accumulations of sugar. Wide temperature resistance of 41°F to 203°F (5°C to 95°C). Provides short term corrosion protection on exposed metal surface. Food Grade – NSF registered H1. DETEX™ components.



CRC Gasket Remover

Part No: AS80

Loosens carbon deposits. Removes baked on fiber gasket, gasket adhesives and sealants. Dissolves and aids removal of paints, lacquers, gasket adhesives and varnish. Contains no Methylene Chloride. Excellent to use on motors, pumps, flange, metals and stones. Eliminates excessive scraping and cleaning. VOC compliant.



Glass Cleaner

Part No: AS74

Sprayway® – The World’s Best Glass Cleaner. Excellent for windows, mirrors, windshields & other glass surfaces. Heavy-duty clinging foam that breaks up soils and holds them even on vertical surfaces. No dripping, running or streaking –guaranteed to leave no film. Perfume grade, denatured alcohol formula with no ammonia for high performance. Leaves a fresh, pleasant aroma



BFX Water Based Degreaser

Part No: AS14

28 oz. Biodegradable. Industrial strength for hard to remove grease. Safe on most surfaces except magnesium. Butyl-free. Noncorrosive. Nonflammable. Rinses clean.

A Great General Purpose Cleaner!



Hydro Force Glass Cleaner

Part No: AS57

18 oz. Biodegradable. Streak-free. Use on glass, fiber glass, mirrors, stainless steel, polished metals, plastics, chrome and linoleum.





Tex-Whiz®



Aviation windshield cleaner & Polishing compound

Part No: CHM0008

- Use on regular basis for cleaning and polishing all transparent surfaces – coated and uncoated
- Polishing compound improves extremely hazy surfaces
- Cleans bug debris, water spots, light scratching and restores luster to surfaces
- Immediate difference can be seen while increasing the life of transparent polymer windows
- Regular use will restore transparent surfaces and preserve the highest optical quality
- Helps improve water repellency and anti-static properties on transparent surfaces
- Widely used, globally by the U.S. Military & exclusively on the F16
- One pint bottle



Aviation Window & Display Cleaner

Part No: AS77

Specifically formulated for aircraft glass. Penetrates through film and contaminants to get glass and mirrors clean. Contains no alcohol or ammonia and is plastic safe. Use on electronic displays, galleys, glass, interior surfaces, mirrors, overhead compartments, Plexiglas® and windows. Meets AMS 1534A



CRC Ice-Off®

Part No: AS81

Windshield spray de-icer. Use on car and truck windows, locks, latches and wipers. Melts ice, snow and frost from windshields on contact. Effective to sub-zero temperatures. Helps prevent re-freezing. Harmless to paint finishes. Features POWERJET® technology with a new spray nozzle that forcefully breaks apart ice and defrosts windows instantly. Ergonomically designed nozzle is easier to depress and control, giving a shot of Ice-Off right where it's needed.



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Electronic Cleaners



CFC Free Electro Contact Cleaner Part No: AS19

11 oz. Fast evaporation. Low odor. Does not contain HCFCs. Spray in an upright or inverted position. No residue. Nonconductive. Safe on plastics. Flammable. Inverta Spray Valve Fast Evaporating. Our best general purpose contact cleaner.



Electra-X Nonflammable Contact Cleaner Part No: AS21

15 oz. No residue. Spray in an upright or inverted position. Nonconductive. Displaces moisture. Quick operation. Non-flammable .



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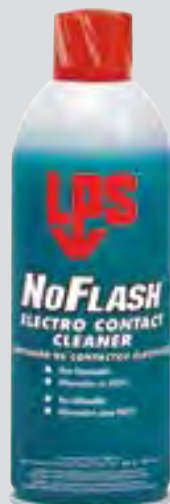
Electro 140° Contact Cleaner Part No: AS41

11 oz. Flash point above 140° (60°C). Inverta Spray Valve. Superior wetting and penetrating action. No residue. Safe to use on most surfaces. Non-conductive – non-flammable .



Electro Contact Cleaner Part No: AS39

14 oz. Quick evaporation. Removes light greases, oils, dirt and organic soils. Nonconductive. Ideal for electrical/ electronic fine parts. No rinsing and no residue. Nonflammable . Safe to use on most surfaces.



NoFlash® Electro Contact Cleaner Part No: AS40

15 oz. Nonflammable precision cleaning. Nonconductive. Safe to use on most surfaces. Fast evaporation. No rinsing and no residue.





NoFlash® NU Precision Contact Cleaner

Part No: AS20

15 oz. Nonflammabl . Nonconductive. Quick penetration. Fast-evaporating. No residue. Spray in an upright or inverted position.



#AS19



PSC Plastic Safe Cleaner

Part No: AS38

18 oz. Nonflammabl . Fast-evaporating. Plastic Safe. Nonconductive. No residue.



Electric Contact Cleaner

Part No: AS22

16 oz. Flammable. Harmless to most plastics. Evaporates rapidly. Leaves no residue.



Electric Contact Cleaner

Part No: AS23

16 oz. Nonflammabl . Fast-acting and great for electronic equipment, printed circuit boards, relays and telecommunication. May affect polystyrene, polycarbonate and acrylic parts.



CRC QD Electric Contact Cleaner

Part No: AS24

11 oz. Flammable. For precision-cleaning applications involving sensitive plastics.



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Electronic Cleaners



#AS69



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Our Best Contact Cleaners For Food Processors



K2 Non-Flammable Electronic Cleaner Part No: AS69

K2 NF Electronic Cleaner is a non-flammable, heavy-duty electronic cleaner that is engineered to rapidly clean and restore electronic components. NSF® Registered K2 Non-flammable cleaner with high dielectric strength. Rapidly evaporates, leaving no residue. Safe to use on most surfaces. High solvency value for quick penetration and effective cleaning. Ideal for use in food industry applications when food is not being processed. DETEX Metal detectable plastic aerosol components. VOC compliant in all 50 states.



K2 Electronic Cleaner Part No: AS70

K2 Electronic Cleaner is a non-chlorinated, plastic safe cleaner that is engineered to rapidly clean and restore electronic components. NSF® Registered K2. Removes dirt, moisture, and oxides from electronic equipment. Plastic safe and ideal for cleaning delicate precision mechanisms. Rapidly evaporates, leaving no residue. Manufactured for the food industry and safe for use in all plant areas when food is not being processed. DETEX Metal detectable plastic aerosol components. VOC compliant in all 50 States. Ideal for use on off-line electronic components.



Super Duster Part No: AS34

16 oz. 100% HFC 134a gas. Removes dust particles.



Super Cold 134 Part No: AS66

Use for locating thermal intermittence, PCB cracks, cool solder joints. Protect heat-sensitive components while soldering. Also great for freezing gum and adhesive to aid in removal. 100% HFC 134A gas 10 oz. Ozone safe. Non-flammable. Non-conductive. Zero residue. Variable valve for greater user control.



Copper Anti-Seize

Part No: AS05A

12 oz. Meets or exceeds: MIL-PRF-907E. Prevents seizure up to 1800°F (982°C). Highly adhesive on both wet and dry surfaces. Ideal for use on stainless steel and for joining dissimilar metals.



Heavy-Duty Metal-Free Anti-Seize

Part No: CHA01

Excellent lubricity, for all metals including stainless steel, aluminum and soft metals up to 2,400°F. Brush top can. 1 lb.



Food Grade Anti-Seize

Part No: CHA02

USDA H2. Prevents seizure, galling and friction in metal parts up to 900°F. Brush top can. 8 oz.



NSF: H2



Nickel, Copper Free Anti-Seize

Part No: CHA03

For use with stainless steel and other metal fittings in harsh chemical environments and temperatures up to 2,400°F. 1 lb. brush top can.





Anti-Seize



Silver Grade Anti-Seize

Part No: CHA04

Heavy-duty, petroleum-based fortified with graphite and metallic flak. Up to 1,600°F. Brush top can. 1 lb.



Copper-based C5A® Anti-Seize

Part No: CHA05

Exclusive formula suspends copper and graphite in a high-quality grease. Protects metal parts from rust, corrosion, galling and seizing at temperatures to 1,800°F. MIL-PRF-907E. 1lb.



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Copper Anti-Seize

Part No: CHST01

9GM. Quick Stick protects metal parts in high-heat environments up to 1800°F. Prevents rust, corrosion, seizing and eases disassembly. Reduces friction and wear to critical parts. MIL-PRF-907E.



Silver Grade Anti-Seize

Part No: CHST02

9GM Quick Stick protects metal parts in high-heat environments up to 1,600°F. Prevents rust, corrosion, seizing and eases disassembly. Reduces friction and wear to critical parts. MIL-PRF-907E.



Acid Brush

Part No: BR38

Used for applying surface coats. Features a long metal handle, 3/8" chiseled-edge horsehair bristle. An economical, throwaway-type brush good for small areas.





All-Purpose Thread Sealant with PTFE

Part No: AT20

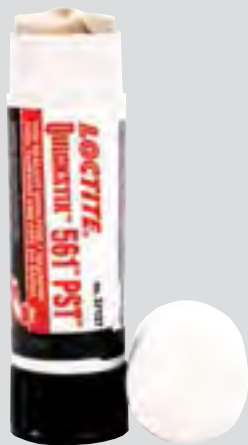
16 oz. Seals threaded connections for air, oil, diesel fuel and hydraulic oil. Temp. ranges -65°F to 300°F. Withstands pressures up to 1,000 psi.



Thread Sealant with PTFE

Part No: CHM03

1 pint can with brush. Formulated specifically for metal, tapered pipe thread fitting. Cures rapidly to provide immediate low pressure sealing. For use on tapered and straight pipe threads.



Thread Sealant

Part No: CHST05

9GM. Quick Stick cures rapidly. Immediate low pressure sealing to 100 psi. Controlled lubricity prevents galling. Protects threaded areas from rust and corrosion. Provides exceptional fluid compatibility and chemical resistance. Will not contaminate or clog lines. Eases disassembly.





Threadlocker



Lock Screws™

Part No: CHM05I (.5 ml capsule)

Part No: CHM05S (10 ml)

Part No: CHM05 (50 ml)

Blue Loctite 222MS

Low-strength threadlocker, for small fasteners requiring occasional adjustment. Applications: set screws, adjustment screws, calibration screws, meters and gauges.



Lock Nuts™

Part No: CHM06S (10 ml)

Part No: CHM06M (50 ml)

Part No: CHM06 (250 ml)

Blue Loctite 242

Removable-strength, for fasteners between 1/4" and 3/4" diameter. Applications: machine tools, presses, pumps, compressors, mounting bolts and gearboxes.



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Blue Medium-Strength Threadlocker

Part No: CHST03

Blue Loctite 248

9GM. A removable-strength threadlocking adhesive in a Quick Stick. Primerless & Oil Tolerant



Lock Studs™

Part No: CHM07I (.5 ml capsule)

Part No: CHM07S (10 ml)

Part No: CHM07M (50 ml)

Part No: CHM07 (250 ml)

Red Loctite 262

Permanent, high strength threadlocker that locks large fasteners and offers heavy-duty protection.



Red High-Strength Threadlocker

Part No: CHST04

Red Loctite 268

9GM. Quick Stick threadlocker eliminates loosening from vibration, shock and thermal expansion. Primerless & Oil Tolerant



After Lock™

Part No: CHM08I (.5 ml capsule)

Part No: CHM08S (10 ml)

Part No: CHM08M (50 ml)

Part No: CHM08 (250 ml)

Green Loctite 290

Wicks along the threads of pre-assembled fasteners to secure them in place. Semi-permanent seal. It also seals porosities in welds and metal parts.





Hydraulic/Pneumatic Sealant

- Part No:** CHM10I (.5 ml capsule)
- Part No:** CHM10S (10 ml)
- Part No:** CHM10M (50 ml)
- Part No:** CHM10 (250 ml)

Purple Loctite 545

Seals hydraulic and pneumatic fittings without danger of contamination.



Retaining Compound

Part No: CHM13 (50 ml)

Green Loctite 609

Low viscosity-retaining compound that bonds rigid metal assemblies. Fixtures in 10 minutes. Withstands temperatures to 300°F.
MIL-R-46082B Type I.



#CHM0001

QuickTape Threadlocker Tape

Part No: CHM0001

- Loctite QuickTape 249
- Threadlocker in tape form
- Easy to use
- Toolbox/Tool belt/Pocket friendly
- No mess
- Can be pre-applied for future assembly
- 260" roll
- Medium strength, general purpose threadlocker
- Removable with hand tools
- -65°F to 300°F
- Cure time 30 min. fi ture/24 hrs. full
- [YouTube](#) Search: Loctite QuickTape 249 for instructional videos



Primerless Threadlockers

- Withstands high temperatures & cures without cleaning or priming
- Upgraded temperature resistance up to 360°F
- Oil tolerant curing on as fasteners without cleaning
- Primerless performance

Item	Size	Part No.
Blue Removable #243	.5ML Capsule	CHM0002
	10ML Bottle	CHM0003
	50ML Bottle	CHM0004
Red Permanent #263	.5ML Capsule	CHM0005
	10ML Bottle	CHM0006
	50ML Bottle	CHM0007





Sealant



Aviation Gasket Sealer

Part No: CHM15

16 oz. Applied as a liquid and changes to paste. Pressure resistant and leakproof to high octane gasoline, grease and lubricating oils (up to 400°F/204°C). For use on most types of gaskets, machined surfaces and screw thread connections of airplane engines.



Silicone Gasket Maker

Part No: RTVGY

70 ML. High Performance. Use on valve covers, oil pans, timing covers, water pumps, thermostat housings and sealing electrical boxes.



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CHRTVCR CHRTVWE CHRTVBE CHRTVRD CHRTVBK

RTV Silicone Adhesive & Sealant

- Self sealing plug
- Select-a-bead nozzle for easy control of bead width
- Dispenses a uniform bead for consistent results
- Pressurized package keeps silicone fresh so it won't dry out
- Cures at room temperature; no special curing methods req.
- Seal, bond, waterproof, and protect
- VOC compliant
- 6.5 oz each

Description	Part No.
Clear	CHRTVCR*
White	CHRTVWE*
Blue	CHRTVBE*
Red	CHRTVRD*
Black	CHRTVBK



*MIL-A-46106B



4-Minute Epoxy

Part No: CHM01

A fast cure, high strength liquid epoxy that reaches handling strength in 4-6 minutes.



Strong Steel Stick Epoxy Putty

Part No: CHM12

Two part E-poxy putty hand-kneadable, for fast repairs. Seals leaks and patches cracks. Adhesive for metals, wood, glass, masonry, ceramics and plastics. USDA authorized for use in federally inspected meat and poultry plants.





Super Bonder

General purpose instant adhesive.
1 oz. bottle.

Part No: CHM02

Part No: CHM02S
3 gram tube



Contact Adhesive

Part No: CHM14

5 oz. tube. Fast-drying, yellow neoprene-based adhesive for bonding porous materials. Extremely flammable.



Spray Adhesive – Multipurpose

Part No: AS67

3M™ Super 77™ Multipurpose Spray Adhesive is a high tack, high coverage and fast drying adhesive. Bonding, attaching, adhering, fastening, securing, gluing, tacking, sticking, gripping and hanging. Low soak-in for long lasting bond. High coverage and aggressive tack. Bonds quickly in 15 seconds.



Foam Adhesive

Part No: AS68

3M™ Foam Fast 74 Spray Adhesive is a fast grabbing foam bonding adhesive in a convenient aerosol can. Light orange color makes it easy to see on the surface sprayed on to ensure proper application. General foam to foam & foam to metal, bonds most fabrics to aircraft interiors, speakers and office partitions. Fast-tack with foam tearing strength. Soft non-dimpling glue line. Variable width lace spray pattern. Bond pieces of foam together to build shapes. Furniture, upholstery, marine, automotive, seat and chair, acoustics, specialty vehicles and bedding.



Hand Cleaners



Workplace Hand Cleaner Towels

Part No: CHT01

Bucket of 72 towels. Appearance and odor: Opaque white liquid with a fresh citrus scent saturated onto towels. Flash Point: None to boiling. Disposable. Pre-moistened. Nonscratching abrasive. Portable. Residue free. Pleasant fragrance.



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Get cleaner, quicker with Barricade.

Create an invisible shield to protect your hands from dirt, oils, dyes, paints, tar, and more. Just apply foam to your hands before work to make cleaning your hands after work easier.



Barricade Cream

Part No: AS58

- Speeds-up your clean-up
- Keeps skin cleaner
- Forms a protective barrier on your skin to prevent grease, soil, inks from penetrating the skin
- Protects skin from irritation when working with acids, alkalis, solvents, gasoline, corrosive salts & other chemicals
- Easy to apply, aerosol container, water-based, ready to use
- Washes off with soap & water
- Contains Lanolin to leave your skin softer for after work



Butane Fuel

Part No: AS01

Used with the HSG3 portable butane heat power torch (300 ML.) Nonclogging. Multi-nozzles for most every application.



BeeBlast® with Residual Wasp and Hornet Killer

Part No: AS52

14 oz. Instantly saturates insects and their nests with a 22' jet blast. Knocks down and kills on contact. Residual action kills wasps and hornets returning to the nest.

A must for service trucks



Flux Remover

Part No: CHM04

15 oz. can. Excellent for cleaning soldering iron tips, heavily-oxidated contacts, connectors and tape heads. Variable rate control valve controls rate of flow.



Liquid Electrical Tape

Part No: CHM11

4 oz. For hard to tape places. Use anywhere a dependable weatherproof connection is required. Forms a tough, flexible coating on metal, rubber and plastic. Rated 300V per MIL @ 5 MIL Minimum.



Starting Fluid

Part No: AS62

Jump Start starting fluid assures fast, economical starts in cold or humid conditions. It also contains an upper cylinder lubricant to minimize wear during cold starts. For use in both gasoline & diesel engines. Spray in air intake or air cleaner while engine is off. Effective down to -65°F.



Leak Detector

Part No: AS65

Reliably locates gas leaks and pressure losses in pipes and pressurized systems by forming visible bubbles when applied over any leak. For use on refrigeration units, air conditioning systems, exhausts, pipes, valves, screw connections, welded seams and compressors. Can be used on all types of gases-compressed air, refrigerants, natural gas, propane, butane, acetylene, oxygen, nitrogen, carbon dioxide etc. Find leaks fast. Non-flammable. Water-based. No odor. NSF: P1.





Paint



MADE IN USA

Torque Seal "Inspection Lacquer"

Inexpensive method to detect warranty tampering; and vibration loosening. Used on compression fitting, studs, nuts, parts and assemblies after they are in proper torque or position. Widely used as "Anti-Sabotage Lacquer". Inspectors can visually detect any movement or tampering. Packaged in convenient 1/2 oz. poly squeeze tubes. High-visibility and daylight-fluorescing colors.

Color	Part No.
Florescent Orange	TORSFOR
Florescent Red	TORSFRD
Florescent Lemon	TORSFL
Florescent Green	TORSFGN
Florescent Yellow/Orange	TORSFYW/OR
Florescent Pink	TORSFPK
Black	TORSBK
White	TORSWE
Gray	TORSGY
Blue	TORSBL
Brown	TORSBN
Purple	TORSPE
Yellow	TORSYW

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Paints

MADE IN USA

Krylon® Industrial Tough Coat® Acrylic Enamel

Description	Part No	Description	Part No
OSHA Gloss Black	CHP01	Clear Gloss Topcoat	CHP18
Max Flat Black	CHP03	Machinery Blue Gray	CHP32
OSHA Gloss White	CHP04	Intl Harvester Red	CHP33
Flat White	CHP05	Allis Chalmers Orange	CHP34
Blue/Gray	CHP06	Ford Blue	CHP35
Machinery Dark Gray	CHP07	Federal Highway Yellow	CHP36
Aluminum	CHP08	New Caterpillar Yellow	CHP37
Machine Green	CHP11	Old Caterpillar Yellow	CHP38
OSHA Red	CHP12	Ivy Green (John Deere & Case Green)	CHP39
OSHA Yellow	CHP13	OSHA Purple	CHP40
OSHA Orange	CHP14	Industrial Gray	CHP41
OSHA Green	CHP15	Light Gray	CHP42
OSHA Blue	CHP16	SemiFlat Black	CHP43
Implement Orange	CHP17	Machinery Lt Gray	CHP69





MADE IN USA



**Krylon® Industrial Tough Coat®
High Heat Paints**

Description	Part No
High-Heat Aluminum	CHP27
High-Heat Black	CHP28

MADE IN USA



**Krylon® Industrial Rust Tough® Acrylic
Enamel Aerosol**

Description	Part No
Semi-Gloss Black (Rust Tough)	CHP02
Chestnut Brown (Rust Tough)	CHP10
Safety Blue (OSHA)	CHP59
Safety Green (OSHA)	CHP60
Safety Yellow (OSHA)	CHP61
Federal Safety Railing Yellow	CHP62
Safety Orange (OSHA)	CHP63
Safety Red (OSHA)	CHP64

MADE IN USA



**Krylon® Industrial (5Ball) Interior
Exterior Paint Original Formula**

Description	Part No
Banner Red	CHP30
Gloss White	CHP45
Flat White	CHP46
Gloss Black	CHP47
Ultra Flat Black	CHP48
True Blue (OSHA Safety Blue)	CHP49

MADE IN USA



**Krylon® Farm & Implement
Paint Aerosol**

Description	Part No
School Bus Yellow	CHP09
Caterpillar Yellow	CHP29
John Deere Primer	CHP51
John Deere/Case Green	CHP52
Int'L Harvester Red	CHP53
Old Cat Yellow	CHP54
Allis Chalmers Orange	CHP55
Kubota Orange	CHP56
Massey Ferguson Red	CHP57
Ford Blue	CHP58

MADE IN USA



**Krylon® Industrial Rust Tough®
Aerosol Primers**

Description	Part No
Gray Sandable Primer (Rust Tough)	CHP21
Red Oxide Primer	CHP65

MADE IN USA



Krylon® Industrial Tough Coat® Primers

Description	Part No
Red Oxide Sandable Primer	CHP20
Red Oxide Rust Control Primer	CHP22
Gray Rust Control Primer	CHP23
Light Gray Sandable Primer	CHP50

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Paint

MADE IN USA

Stainless Steel Coating

Description	Part No
Stainless Steel Protective Coating	CHP19

316 Stainless Steel Pigment
Corrosion Resistant
Max Temp rating 400° F



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MADE IN USA

Krylon® Industrial QuikMark™ SolventBased Inverted Fluorescent Marking Paints

Description	Part No
Red/Orange Fluorescent (Inverted Spray)	CHP24
Orange Fluorescent (Inverted Spray)	CHP25
Fluorescent Safety Red (Inverted Spray)	CHP44

Comes with spray-through cap for painting/marketing with can upside down



MADE IN USA

Krylon® Industrial QuikMark™ Solvent-Based Inverted APWA Marking Paint

Description	Part No
Safety Yellow (inverted Spray)	CHP26
APWA Red (Inverted Spray)	CHP66
APWA Blue (Inverted Spray)	CHP67
APWA Utility White (Inverted Spray)	CHP68







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SPS1
1" Jaw Diameter

SPS2
1-1/2" Jaw Diameter

Safety Lockout Hasp

- Lock up to 6 workers at each lockout point
- Keep equipment inoperative while repairs or adjustments are made
- Attach device to energy disconnect switch
- Traditional, scissor-action hasps
 - Available in two jaw diameters to fit all applications
 - Durable heavy gauge steel construction
 - Insulated with bright vinyl coating

Jaw Diameter	Part No.
1"	SPS1
1-1/2"	SPS2



SPT1
Front Side

Back Side

"Locked Out" Tags

5-1/2" x 3". For maintenance department use. Made of heavy-duty polyester.

Part No. SPT1

- Durable polyester laminate protects graphics and holds up against water, grease and extreme temperatures
- Heavy-duty construction prevents accidental removal
- Withstands up to 80 lbs. of pullout force
- 7/16" diameter brass grommet accepts most padlocks
- Part no. SPT1



Safety Glasses

Light Vision™ 2



Half-frame style, hands free direct lighting

- Ultra-bright, adjustable LED lights
- Long lasting batteries provide up to 50 hours of continuous use
- Adjustable length temples
- Soft nose bridge and temple tips, black frame
- Includes microfibre storage bag and lanyard
- Available in readers of magnification strengths: +1.5 and +2.0
- Polycarbonate lenses absorb 99.9% UV, clear anti fog lens
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



EP40



EP50



EP150

Lens	Frame	Part No.
Clear lens, anti-fog	Gray w/ black accents	EP40
Clear lens, anti-fog w/ +2.0 bifocal magnification	Black	EP50
Clear lens, anti-fog w/ +1.5 bifocal magnification	Black	EP150
Replacement batteries		CR2032

Lens Cleaning Wipes



Part No. STY0001

Keep your safety glasses clean with pre-moistened wipes packaged in individual packets.

- Anti-Static
- Anti-Fog
- Safe for glass or plastic glasses
- 120, 5" x 6" wipes per box

The dispenser box is great for bench tops or mounts on walls easily with Dual Lock.





Safety & Protection

BX 3M

Sleek, contoured & fully adjustable

- Adjustable length adjustment
- Lens angle adjustment
- Soft, adjustable nose bridge
- Available in bifocal magnification +2.0
- Available with indoor/outdoor mirror lens
- Polycarbonate lenses absorb 99.9% UV
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



EP30



EP20



EP70

Lens	Frame	Part No.
Clear, anti-fog lens	Blue w/black accents	EP30
Clear, anti-fog lens w/ +2.0 bifocal magnification	Gray w/black accents	EP20
Indoor/Outdoor Mirror lens w/ +2.0 bifocal magnification	Blue w/black accents	EP70

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Lexa 3M

Proprietary lens geometry and optical design provides full coverage and a wide viewing range

- Adjustable length templates
- Lens angle adjustment
- Soft, adjustable nose bridge
- Available in bifocal magnification +2.0
- Polycarbonate lenses absorb 99.9% UV, clear anti fog lens
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



Lens	Frame	Part No.
Clear, anti-fog lens w/ +2.0 bifocal magnification	Black temple	EP10



Metaliks Sports **3M**
Brush nickel frame and sport – style frame

- Gray lens
- Metal temples with soft rubber tips
- Soft nose bridge
- Polycarbonate lenses absorb 99.9% UV, anti-fog lens
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



Lens	Frame	Part No.
Gray, antifog	Brush nickel	EP90

Virtura **3M**
Style, protection and affordability in a lightweight design

- Weighs less than one ounce
- High wrap offers additional coverage
- Gray lens
- Polycarbonate lenses absorb 99.9% UV
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003



Lens	Frame	Part No.
Gray	Gray	EP2200

SecureFit **MADE IN USA** **3M**
Comfort & protection in general purpose safety glasses

- Provides a secure, snug fit without compromising comfort
- Diffusion temple self-adjusts to a wide range of head sizes
- Polycarbonate lenses absorb 99.9% UV
- Meets the requirements of CSA Z94.3-2007 and the high impact requirements of ANSI Z87.1-2003

Lens	Part No.
Clear	EP4300
Gray	EP4301
Amber	EP4302





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Kut Kit Contents	
Description	Pieces
Certi-Strips – Plastic – ANSI – 1" × 3"	16/unit
Certi-Gauze Compress – 24" × 72"	1/unit
Certi-Strips – Heavy Weight Woven – Fingertip & Knuckle	9/unit
Antiseptic BZK Towelettes – ANSI – 5" × 7"	10/unit
Eye Wash – 1 oz.	1
WoundSeal – 1/Applicator – 1/Tear Drop	1

First Aid - Kut Kit

Part No. STY0002

- **WOUNDSEAL™** powder is for minor external wounds
- Stops bleeding instantly without relying on the body's natural clotting process
- Does not cauterize or burn the skin
- Provides an instant and flexible seal that may protect against infection

Earplugs



- Classic E-A-R Earplugs
- Proprietary slow-recovery foam
- NRR29db

Description	Part No.
Uncorded	EPF1
Corded	EPF1S



Earplugs – Metal Detectable



Part No. EPF2

- Corded Classic Plus E-A-R Earplugs by 3M
- Traceable ear protection for food processing plants
- Earplugs & vinyl cords are metal detectable
- Proprietary slow-recovery foam
- NRR33db





Dual Cartridge Painting Respirator Assembly



- NIOSH approved: OV/P95 for use against certain airborne organic vapors and particles
- 3M recommended for paint spray, organic vapor or pesticide applications
- Do not use for asbestos, gases or sandblasting
- Maintenance free, disposable
- Lightweight, dependable, economical



Description	Part No.
Small Dual Cartridge Assembly	DCPRS
Medium Dual Cartridge Assembly	DCPRM
Large Dual Cartridge Assembly	DCPRL
Pre-Filters	DCPRF



DMW8214



DMS10



DMW11



EXR2



Dust Masks (U.S. Government Approved)

Description	Part No.
Sanding & Fiberglass, N95 Rated	DMS10
Woodworking, Sanding & Fiberglass	DMW11
Welding Respirator	DMW8214

Fire Extinguisher

Description	Part No.
Tri-Class ABC, 2.6 LB., Cap with metal strap	EXR2



Gloves

Mechanix Wear® Original® Grip Gloves

Synthetic leather palm, finger tips and thumb covered with a sonic-welded, Thermal Plastic Rubber, dot pattern that requires less strenuous effort when gripping. The dot pattern displaces liquid for better traction and rolls over to the top of the index finger and thumb or more intricate tasks.

- Stretch spandex material ensures a comfortable fit
- Closure with hook and loop provides a secure fit
- Reinforcement panels in high wear areas for increased durability



Size	Part No.
Medium	MGM
Large	MGL
X-Large	MGXL
XX-Large	MG2X

Mechanix Wear® Utility Gloves

Durable synthetic leather safeguards your palm and the Thermal Plastic Rubber (TPR) closure secures comfortably to the wrist. Form-fitting TrekDry® material helps keep your hands dry and comfortable when hot.

- Elastic cuff with Thermal Plastic Rubber (TPR) closure for a secure fit
- Form-fitting TrekDry® helps keep hands dry and comfortable
- Anatomically cut thumb area provides a snug fit
- Seamless single layer palm for maximum dexterity
- Machine washable



Size	Part No.
Small	MGUS
Medium	MGUM
Large	MGUL
X-Large	MGUXL
XX-Large	MGU2XL

Kevlar®, Latex Coated Gloves

Outstanding durability in construction, manufacturing, assembly, shipping, material handling and more. Textured, latex-dipped palms and finger tips for extra grip and superior abrasion resistance. 100% Kevlar® shell for outstanding cut resistance for applications involving glass, sheet metal or other sharp objects. Kevlar® will not melt, ignite or conduct electricity. Gloves offer ANSI level 2 cut resistance.



Size	Part No.
Small	FTKS
Medium	FTKM
Large	FTKL



Sponge Nitrile Coated Gloves
Nylon, Foam Nitrile Coated

Sponge nitrile technology produces an extra-absorbent nitrile dip that conforms and adheres to the nylon shell like no other glove available. The result is a glove that beats the competition in laundrings nearly three-to-one, and absorbs almost twice as much oil and grease, while still delivering a sure grip.



Size	Part No.
Large	SNGL

Leather Palm Heavy Duty Work Gloves

- Heavy duty suede cowhide
- Striped cotton back
- Safety cuff & gathered elastic

Size	Part No.
Large	WG4LL
X-Large	WG4LXL



Leather Palm Light Duty Work Gloves

- Light duty suede cowhide
- Striped cotton back
- Safety cuff & gathered elastic

Size	Part No.
Large	WG4SL



Brushed Suede Cowhide Gloves

- Gathered elastic at cuff

Size	Part No.
Small	WG3DS
Medium	WG3DM
Large	WG3DL
X-Large	WG3DXL



Jersey Gloves

- Knit cuff

Size	Part No.
Large	WG2JH



Black Nitrile Gloves
"That black glove!"

- Nitrile
- Textured grip
- Black color hides stains
- Latex free, powder free
- Ambidextrous, comfortable
- Durable, puncture resistant
- Designed for general maintenance work in industrial environments
- 100 gloves per box

Size	Part No.
Small	DGNS
Medium	DGNM
Large	DGNLG
X-Large	DGNXLG
2X-Large	DGNXXLG



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VEHICLE LIGHTING & WIRING

Index: Safety & Protection

Flashers	645
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Plugs & Sockets	646 – 647
Relays	643
Sealed Beam & Flasher Socket	646



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PM PETERSON

Peterson Manufacturing (pmlights.com) is one of the largest makers of fleet lighting equipment and Hi-Line is a full line Peterson Manufacturing distributor. Anything they make you can get from Hi-Line. Please see your local Hi-Line Territory Manager for details.



PPETERSONCAT

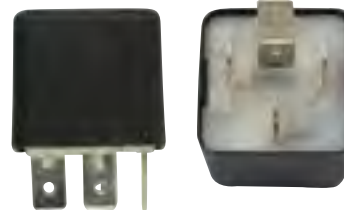
Relays

Universal, heavy-duty relays guard against overloads and arcing.

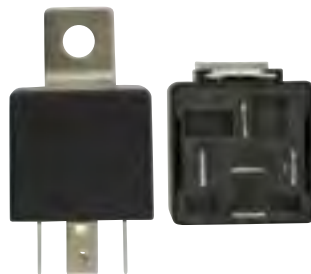
AMPS	Volts	Term #	Protection	Bracket	Part No.
30	12V	4	No	Yes	TLP52040
40	12V	5	Diode	No	TL190
40	12V	5	No	Yes	TL191
30	12V	5	No	Yes	TL192D
20	24V	5	No	No	TL1924
Relay connector for 5-terminal relays					TL9185



TLP52040



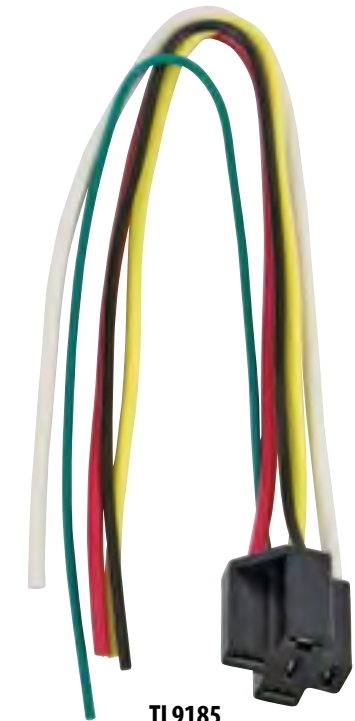
TL190



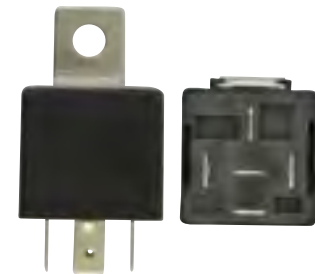
TL191



TL192D



TL9185



TL1924

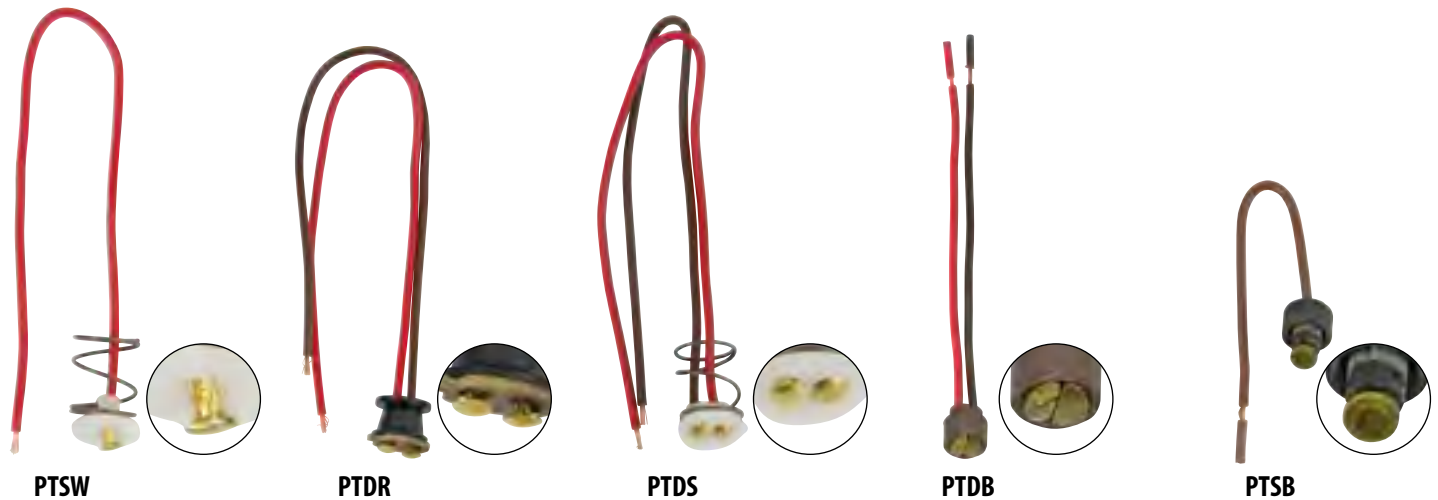


Vehicle Lighting & Wiring

Pigtails

Replacement wires, washers, springs and contacts. Standard copper wire with heavy insulation for conductivity and durability.

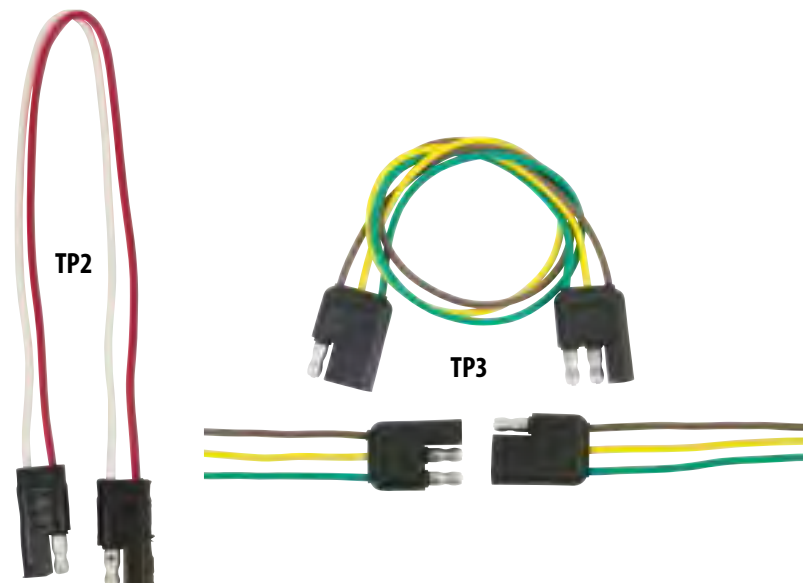
Style	Description	Length	Part No.
Miniature	Single Contact	12"	PTMP
Standard	Single Contact-Rubber	8"	PTSS
	Single Contact		PTSW
Double	Double Contact-Rubber	8"	PTDR
	Double Contact		PTDS
	Explosion Resistant Rubber	6"	PTDB
Single	Explosion Resistant Rubber	6"	PTSB



Molded Trailer Plugs

Tin-plated brass connectors crimped to copper wires and completely covered with molded PVC insulation.

Description	Length	Part No.
Single Connection-Line Splice	12"	TP1
Double Connection-Line Splice		TP2
Triple Connection-Line Splice		TP3
Four-Way Connection-Line Splice		TP4
Five-Way Connection-Line Splice		TP5
Six-Way Connection-Line Splice		TP6





Flashers

Thermal Flashers

- Use heat build-up to flash circuit ON and OFF.
- Features an audible click, alerting driver that a directional signal is engaged.
- Generally used in older vehicles.
- Operates correctly under variable load – flashing the designated vehicle lamps only, or additional lamp when towing a trailer.
- Does not indicate lamp outage.

Heavy Duty Electronic Flashers

- Use electronic circuitry — not heat — to operate.
- Superior service life and excellent performance in extreme climates.
- Original equipment on many domestic/imported late-model light & HD trucks.
- Direct plug-in replacement — no adapter required.
- Indicates lamp outage by flashing at twice normal speed, and features an audible click when engaged.

Super Heavy Duty Electronic Flashers

- Provides variable load functionality in heavy-duty applications.
- Replacement flasher for domestic trucks and vans.
- Electronic design provides superior service life.

Flashers					
Flasher Type	No. of Bulbs	Terminals	Vdc	Amps	Part No.
SUPER HD ELECTRONIC	1-10	2	12	25	FLR12
SUPER HD ELECTRONIC	1-10	3	12	25	FLR13
SUPER HD ELECTRONIC	1-10	3	24	20	FLR234
HD ELECTRONIC	3	3	12	25	FLR13A*
HD ELECTRONIC	2-4	4	12	12.6	FLR726
HD ELECTRONIC	2-4	5	12	12.6	FLR727
HD ELECTRONIC	2-6	3	12	12.6	FLR756
HD ELECTRONIC	2-6	3	12	12.6	FLR757
HD ELECTRONIC	2-6	3	12	12.6	FLR758
HD ELECTRONIC	3-6	3	12	12.6	FLR759
HD ELECTRONIC	2-6	3	12	12.6	FLR760
HD ELECTRONIC	2-6	3	12	12.6	FLR761
HD ELECTRONIC	3-6	4	12	12.6	FLR762
HD ELECTRONIC	16	2	12	12	FLR763
HD ELECTRONIC	10 HZ / 5 TS	3	12	25	FLR850
HD ELECTRONIC	16 HZ / 8 TS	2	12	35	FLR852
HD ELECTRONIC	20	2	12	12	FLR764
THERMAL	2-6	2	12	12.8	FLR552
THERMAL	2-3	3	12	12.8	FLR550
THERMAL	1-8	2	12	12.8	FLR575
THERMAL EXTRA LOUD	2-6	2	12	14	FLR577

*Alternating

HZ - Hazzard

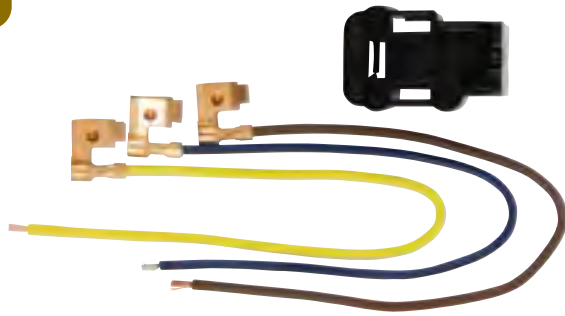
TS - Turn Signal



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Vehicle Lighting & Wiring



Sealed Beam and Flasher Sockets

Stranded wire for full-power connections to lights and flasher .

Description	Part No.
Flasher socket	FH12X



TL3121

Junction Box, 7-Position

- Seven #10–32 studs
- Non-corrosive
- Size: 8-1/2" L x 3-1/4" W x 2-1/8" H
- Scientifically engineered supporting ribs for extra strong construction
- Mounting: Two holes on 7-11/32" centers
- Made of black plastic

Description	Part No.
Junction Box, 7-Way	TL3121

RV 7-way Blade Type Connectors

- Primarily used in RV applications.
- 6-24 VDC
- Impact resistant PVC housings.
- Optional zinc plated metal mounting bracket.

Description	Part No.
7-Way Blade Type Plug, RV lighting connector	VEH0001
7-Way Blade Type Socket, RV lighting connector	VEH0002
Mounting Bracket for VEH0002	VEH0003

See the Peterson Lights Catalog for standard 7-way plugs and sockets along with many other plugs and sockets.



VEH0001



VEH0002



VEH0003



Seven-way Trailer Plug & Socket

- Meets ISO 3731:1997 requirements.
- Plug is heavy-duty nickle-plated zinc die cast housing.
- Socket is yellow color-coded non-corrosive, reinforced nylon housing.
- Socket mounting holes are 2-15/16" on center.

Description	Part No.
ISO 7 WAY PLUG	TPV101
ISO 7 WAY SOCKET	TPV106



Two-way Power Plug & Socket

- Used to provide a disconnectable power supply with up to 200 amp, 4 gauge wire capacity.
- Heavy-duty zinc die cast housing.
- Internal ground.
- Spring guard supports and protects cable

Description	Part No.
PLUG	TPV116
SOCKET	TPV121





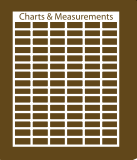
Charts & Measurements

TEMPERATURE CONVERSION TABLE

C	F	C	F	C	F	C	F
-100	-148	60	140	220	428	380	716
-95	-139	65	149	225	437	385	725
-90	-130	70	158	230	446	390	734
-85	-121	75	167	235	455	395	743
-80	-112	80	176	240	464	400	752
-75	-103	85	185	245	473	405	761
-70	-94	90	194	250	482	410	770
-65	-85	95	203	255	491	415	779
-60	-76	100	212	260	500	420	788
-55	-67	105	221	265	509	425	797
-50	-58	110	230	270	518	430	806
-45	-49	115	239	275	527	435	815
-40	-40	120	248	280	536	440	824
-35	-31	125	257	285	545	445	833
-30	-22	130	266	290	554	450	842
-25	-13	135	275	295	563	455	851
-20	-4	140	284	300	572	460	860
-15	5	145	293	305	581	465	869
-10	14	150	302	310	590	470	878
-5	23	155	311	315	599	475	887
0	32	160	320	320	608	480	896
5	41	165	329	325	617	485	905
10	50	170	338	330	626	490	914
15	59	175	347	335	635	495	923
20	68	180	356	340	644	500	932
25	77	185	365	345	653	505	941
30	86	190	374	350	662	510	950
35	95	195	383	355	671	515	959
40	104	200	392	360	680	520	968
45	113	205	401	365	689	525	977
50	122	210	410	370	698	530	986
55	131	215	419	375	707	535	995

*Freezing & Boiling
Conversion Method: °F=9/5 °C+32; °C=5/9 (°F-32)

MAXIMUM AMPERE CAPACITY			
AWG	WIRE CONTINUOUS DUTY	BATTERY CABLE INTERMITTENT DUTY	EXTRA FLEX CABLE INTERMITTENT DUTY
24	0.577		
22	0.92		
20	1.5		
18	3		
16	6		
14	15		
12	20		
10	25		
8	35		
6	50		60
4		170	110
2		220	200
1		290	250
1/0		300	360
2/0		350	400
3/0		405	450
4/0		470	500



FRACTION, DECIMAL AND METRIC EQUIVALENTS					
Fractional Inch	Dec. Equiv.	Millimeters	Fractional Inch	Dec. Equiv.	Millimeters
1/64	0.0156	0.397	33/64	0.5156	13.097
1/32	0.0313	0.794	17/32	0.5313	13.494
3/64	0.0469	1.191	35/64	0.5469	13.891
1/16	0.0625	1.588	9/16	0.5625	14.288
5/64	0.0781	1.984	37/64	0.5781	14.684
3/32	0.0938	2.381	19/32	0.5938	15.081
7/64	0.1094	2.778	39/64	0.6094	15.478
1/8	0.125	3.175	5/8	0.625	15.875
9/64	0.1406	3.572	41/64	0.6406	16.272
5/32	0.1562	3.97	21/32	0.6563	16.669
11/64	0.1719	4.366	43/64	0.6719	17.066
3/16	0.1875	4.7	11/16	0.6875	17.463
13/64	0.2031	5.159	45/64	0.7031	17.859
7/32	0.2188	5.556	23/32	0.7188	18.256
15/64	0.2344	5.953	47/64	0.7344	18.653
1/4	0.25	6.35	3/4	0.75	19.05
17/64	0.2656	6.747	49/64	0.7656	19.447
9/32	0.2813	7.144	25/32	0.7813	19.844
19/64	0.2969	7.541	51/64	0.7969	20.241
5/16	0.3125	7.937	13/16	0.8125	20.638
21/64	0.3282	8.3	53/64	0.8281	21.034
11/32	0.3438	8.731	27/32	0.8438	21.431
23/64	0.3594	9.128	55/64	0.8594	21.828
3/8	0.375	9.525	7/8	0.875	22.225
25/64	0.3906	9.922	57/64	0.8906	22.622
13/32	0.4063	10.319	29/32	0.9063	23.019
27/64	0.4219	10.716	59/64	0.9219	23.416
7/16	0.4375	11.112	15/16	0.9375	23.813
29/64	0.4531	11.509	61/64	0.9531	24.209
15/32	0.4688	11.906	31/32	0.9688	24.606
31/64	0.4844	12.303	63/64	0.9844	25.003
1/2	0.5	12.7	1"	1	25.4

RECOMMENDED AWG FOR AMPERE LOAD AT 12 VOLTS				
AMPERE	UP TO 10 FEET	UP TO 20 FEET	UP TO 30 FEET	UP TO 40 FEET
3	18 AWG	16 AWG	14 AWG	12 AWG
6	16 AWG	14 AWG	12 AWG	10 AWG
15	14 AWG	12 AWG	10 AWG	8 AWG
20	12 AWG	10 AWG	8 AWG	6 AWG
25	10 AWG	8 AWG	6 AWG	4 AWG

Fasteners Numbering Guide

CAP SCREWS & BOLTS

19	GRADE 5 HEX HEAD-SAE
20	GRADE 5 HEX HEAD-USS
21	GRADE 8 HEX HEAD-SAE
22	GRADE 8 HEX HEAD-USS
38	SOCKET HEAD-COARSE
47	GRADE 2 CARRIAGE
48	FLAT HEAD SOCKET
57	SOCKET HEAD-FINE
58	BUTTON HEAD SOCKET
62	S.S. 18-8 HEX HEAD-USS
78	S.S. SOCKET HEAD-COARSE
80	GRADE 8.8 METRIC HEX
85	METRIC SOCKET HEAD
92	S.S. METRIC HEX HEAD
99	GRADE 10.9 METRIC HEX
100	METRIC HEX HEAD LOOSE WASHER
358	S.S. 316 BUTTON HEAD SOCKET
362	S.S. 316 HEX HEAD-USS
380	LOW SOCKET HEAD-COARSE
471	HEX WASHER HEAD
472	HEX WASHER HEAD-CA POINT
473	HEX WASHER HEAD-DOG POINT
474	HEX HEAD LOOSE WASHER
475	GRADE 5 CARRIAGE
476	SERRATED FLANGE HEX
478	FLANGED FRAME-USS
479	FLANGED FRAME-SAE
580	S.S. BUTTON HEAD SOCKET
647	S.S. 18-8 CARRIAGE
779	S.S. TAMPER PROOF TORX BUTTON
789	S.S. METRIC SOCKET HEAD
AN	AVIATION HEX HEAD

KEYS

326	SQUARE KEY STOCK
327	WOODRUFF KEYS

NUTS

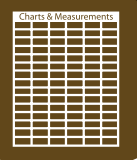
013	GRADE 8 NYLON INSERT-USS (IMPORT)
017	GRADE 8 NYLON INSERT-SAE (IMPORT)
021	GRADE 8 NYLON INSERT-SAE (USA)
022	GRADE 8 NYLON INSERT-USS (USA)
03	GRADE C LOCKNUT-USS
04	BRASS MACHINE HEX
07	GRADE C LOCKNUT-SAE
08	MACHINE HEX
12	GRADE 5 HEX-SAE
12_JN	GRADE 5 JAM HEX-SAE
13	GRADE 2 NYLON INSERT-USS
14	WING
15	SLOTTED HEX-USS
16	GRADE 5 HEX-USS
16_JN	GRADE 5 JAM HEX-USS
17	GRADE 2 NYLON INSERT-SAE
18	SLOTTED HEX-SAE
21	GRADE 8 HEX-SAE
22	GRADE 8 HEX-USS
42	KEP
50	S.S. 18-8 HEX
53	S.S. NYLON INSERT HEX
59	ACORN
81	METRIC DIN 934 HEX
82	METRIC CLASS 8 NYLON INSERT
94	S.S. METRIC HEX-COARSE
95	S.S.METRIC NYLON INSERT
98	METRIC CLASS 10 HEX
101	METRIC SPIN TYPE
102	METRIC U-NUT (EXTRUDED)
103	METRIC FREE SPINNING WASHER
350	S.S. 316 MACHINE HEX
350_X	S.S. 316 FINISH HEX
353	S.S. 316 NYLON INSERT HEX
477	SERRATED FLANGED USS
480	GRADE G FLANGED LOCK USS
481	GRADE G FLANGED LOCK SAE
482	SPIN TYPE
483	U-NUT (EXTRUDED)
590	S.S. ACORN
990	METRIC CLASS 10 NYLON INSERT
MS	AVIATION

WASHERS

10	GRADE 5 FLAT-USS
11	GRADE 5 FLAT-SAE
23	GRADE 8 FLAT-USS
25	H.D. SPLIT LOCK
26	HIGH COLLAR SPLIT LOCK
29	GRADE 8 - FLAT-SAE
32	EXTERNAL TOOTH LOCK
32_CS	CNTRSUNK EXT TOOTH LCK
34	STD. SPLIT LOCK
36	GRADE 2 FLAT-SAE
37	INTERNAL TOOTH LOCK
39	FENDER
40	BRASS FLAT-SAE
46	GRADE 8 EXTRA THICK FLAT
54	NYLON FLAT
55	S.S. 18-8 SPLIT LOCK
56	S.S. 18-8 FLAT
56_HD	S.S. 18-8 FLAT EXTRA THICK
83	METRIC SPLIT LOCK
84	METRIC CLASS 8 FLAT
86	METRIC SPRING/WAVE
96	S.S. METRIC FLAT
96_HD	S.S. METRIC FLAT EXTRA THICK
97	S.S. METRIC SPLIT LOCK
260	METRIC HIGH COLLAR SPLIT LOCK
355	S.S. 316 SPLIT LOCK
356	S.S. 316 FLAT
390	S.S. FENDER
391	S.S. CUP
999	METRIC CLASS 10 FLAT
A	TINNERMAN
AN	AVIATION
EC	S.S. TINNERMAN
_FW	S.S. FINISHING WASHER

RIVET PRODUCTS

35	RIVET NUTS-PLAIN
349	RIVET NUTS-KNURLED
350M	METRIC RIVET NUTS-KNURLED
AA	ALUMINUM BLIND RIVETS
CR	CHERRY RIVETS
MS	SOLID RIVETS
MS	NUTPLATES
NAS	SOLID RIVETS



Fasteners Numbering Guide

HI-LINE PART PART NUMBERING SYSTEM:			
Standard Fastener Example: 21G112			
21	G	112	
Fastener Style /Type	Diameter	Length	
	(in.)	(in.)	
Metric Fastener Example: 851217530			
85	12	175	30
Fastener Style /Type	Diameter	Thread Pitch	Length
	(mm)	(mm)	(mm)

B- # 4-40	I- 3/8"	Q- 1-1/8"
C- # 6-32	J- 7/16"	R- 1-1/4"
D- # 8-32	K- 1/2"	RS- 1-3/8"
E- #10-24	L- 9/16"	S- 1-1/2"
EF- #10-32	M- 5/8"	
F- #12-24	N- 3/4"	
G- 1/4"	O- 7/8"	
H- 5/16"	P- 1"	

MACHINE SCREWS	
01	SLOTTED ROUND HEAD
02	SLOTTED FLAT HEAD
05	PHILLIPS PAN HEAD
06	PHILLIPS FLAT HEAD
09	BRASS SLOTTED ROUND HEAD
049	SLOTTED PAN HEAD
49	HEX WASHER HEAD THREAD CUTTER
60	S.S. SLOTTED PAN HEAD
61	S.S. SLOTTED FLAT HEAD
64	S.S. PHILLIPS PAN HEAD
66	S.S. PHILLIPS FLAT HEAD
67	S.S. SPANNER PAN HEAD
87	METRIC SLOTTED PAN HEAD
88	METRIC SLOTTED FLAT HEAD
89	METRIC PHILLIPS PAN HEAD
90	METRIC PHILLIPS FLAT HEAD
91	METRIC PHILLIPS OVAL HEAD
279	PHIL PAN HEAD THREAD CUTTER F PNT
364	S.S. 316 PHILLIPS PAN HEAD
366	S.S. 316 PHILLIPS FLAT HEAD
369	S.S. 316 SLOTTED FILLISTER HEAD
870	S.S. METRIC SLOTTED PAN HEAD
890	S.S. METRIC PHILLIPS PAN HEAD
900	S.S. METRIC PHILLIPS FLAT HEAD
AN	AVIATION
MS	AVIATION

SCREWS	
24	SLOTTED FLAT HEAD SM
25	SLOTTED PAN HEAD SM
27	PHILLIPS PAN HEAD SM
28	PHILLIPS OVAL HEAD SM
30	SLOTTED HEX WASHER HEAD SM
31	SELF DRILLING HEX WASHER HEAD
41	PHILLIPS FLAT HEAD SM
44	SELF DRILLING PHILLIPS PAN HEAD
45	DRYWALL PHILLIPS BUGLE HEAD
70	S.S. SLOTTED ROUND HEAD SM
71	S.S.SELF DRILLING HEX WASHER HEAD
74	S.S. PHILLIPS FLAT HEAD SM
75	S.S. SQUARE DRIVE PAN HEAD SM
76	S.S. PHILLIPS OVAL HEAD SM
77	S.S. PHILLIPS PAN HEAD SM
299	SQUARE DRIVE PAN HEAD SM
300	CONCRETE HEX WASHER HEAD
310	SELF DRILLING K-LATH PHILP WASH HD
374	S.S. 316 PHILLIPS FLAT HEAD SM
377	S.S. 316 PHILLIPS PAN HEAD SM
410	CONCRETE PHILLIPS FLAT HEAD
440	S.S.SELF DRILLING PHILLIPS PAN HEAD
669	S.S. ONE-WAY ROUND HEAD SM
MS	AVIATION

THREAD PITCH CHART			
USS COARSE		SAE FINE	
1/4"-20	1-1/8" 7	1/4"-28	1-1/8"-12
5/16"-18	1-1/4"-7	5/16"-24	1-1/4"-12
3/8"-16	1-3/8"-6	3/8"-24	1-3/8"-12
7/16"-14	1-1/2"-6	7/16"-20	1-1/2"-12
1/2"-13		1/2"-20	
5/8"-11		5/8"-18	
3/4"-10		3/4"-16	
1"-8		1"-14	

THREAD PITCH CHART			
METRIC	COARSE	FINE	EXTRA FINE
3MM	.50	.50	
4MM	.70	.50	
5MM	.80	.50	
6MM	1.00	.75	
8MM	1.25	1.00	
10MM	1.50	1.25	1.00
12MM	1.75	1.50	1.25
14MM	2.00	1.50	
16MM	2.00	1.50	
18MM	2.50	1.50	
20MM	2.50	1.50	

ROD PRODUCTS	
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323	ALL THREAD-FINE
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724	S.S. ALL THREAD

SET SCREWS	
51	SOCKET SET-COARSE
52	SOCKET SET-FINE
72	S.S. SOCKET SET-COARSE
79	GRADE 12.9 METRIC SOCKET SET

PINS	
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43	ROLL PINS
63	S.S. ROLL PINS
73	S.S. COTTER PINS
328	CLEVIS PINS / YOKES
331	LYNCH PINS
943	METRIC ROLL PINS
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MS	MS COTTER PINS

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346	METRIC THREAD REPAIR KIT
347	USS/SAE THREAD REPAIR KIT
348	USS/SAE THREAD INSERTS
349	METRIC THREAD INSERTS

New Products

SUPPLEMENTAL CATALOG

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APR 2016



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Electrical

Gorilla Nuts®

Cushion grip wire connectors

- Eliminates pain and numbness in hands and finger
- Improved coverage, fits a wide wire range, affords less inventory
- Unique design allows for a better torque and twisting leverage
- Comfortable cushion grip offers improved slip resistance
- Flexible WorkSkirt™ protects against over stripping
- Square cut spring provides a secure connection and wire bite with first twist

Color	AWG	Part No.
ORANGE/BLUE	Min 3 #20, Max 3 #12	GN10B
RED/YELLOW	Min 2 #18, Max 2 #8	GN2RY
BLUE/GRAY	Min 4 #14, Max 2 #6	GN3BG



Lever-Nuts®

Compact Splicing Wire Connectors

- 222 Series
- Easy 3 step installation, Strip wire. Push lever up. Insert conductor and push lever down
- 28 – 12 AWG stranded or solid wire
- Reusable with levers
- 600 Volts AC, 1000 Volts AC signs & features, 20 AMP, max continuous service temperature 221°F (105°C)



LN5

Positions	Part No.
2	LN2
3	LN3
5	LN5



LN3



LN2



1) Strip Wire



2) Push up lever



3) Insert conductor and push down lever



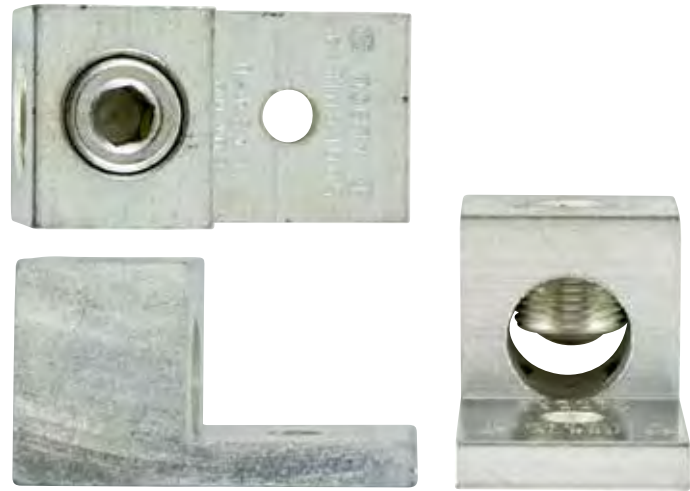
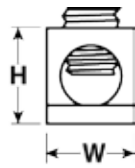
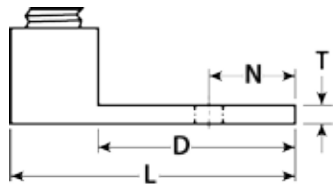
Integrated test parts allow for easy testing of connection integrity.



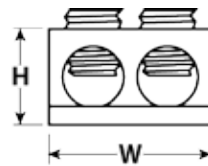
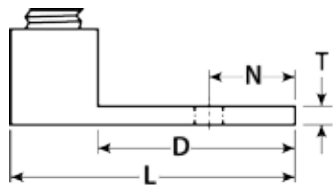
MADE IN USA

Mechanical Lugs – Aluminum

- Dual rated for Aluminum and Copper Conductors
- High strength aluminum alloy
- Tin-plated to provide low contact resistance
- One & two conductors models



Mechanical Lugs, Aluminum - One Conductor								
Wire Range	Stud Size	L	N	W	T	H	D	Part No.
14-6 AWG	1/4"	1.06	0.25	0.50	0.09	0.51	0.63	ML6AL
14-2 AWG	1/4"	1.16	0.31	0.50	0.10	0.56	0.63	ML2AL
14-1/0 AWG	1/4"	1.50	0.44	0.63	0.19	0.92	0.81	ML25U
6-2/0 AWG	1/4"	1.47	0.45	0.63	0.19	0.80	0.81	ML26U
6 AWG-250 MCM	5/16"	2.00	0.47	1.00	0.25	1.14	0.94	ML29AL
4 AWG-500 MCM	3/8"	2.81	0.88	1.50	0.31	1.58	1.50	ML34AL



Mechanical Lugs Dual, Aluminum - Two conductors								
Wire Range	Stud Size	L	N	W	T	H	D	Part No.
14-1/0 AWG	1/4"	1.47	0.44	1.13	0.19	0.79	0.81	ML2A25AL
14-2/0 AWG	1/4"	1.47	0.44	1.25	0.19	0.80	0.81	ML2A26AL
6 AWG-250 MCM	3/8"	2.56	0.50	1.66	0.25	1.20	1.50	ML2A29AL
2 AWG-600 MCM	1/2"	3.20	0.63	2.41	0.44	1.56	1.75	ML2A36AL

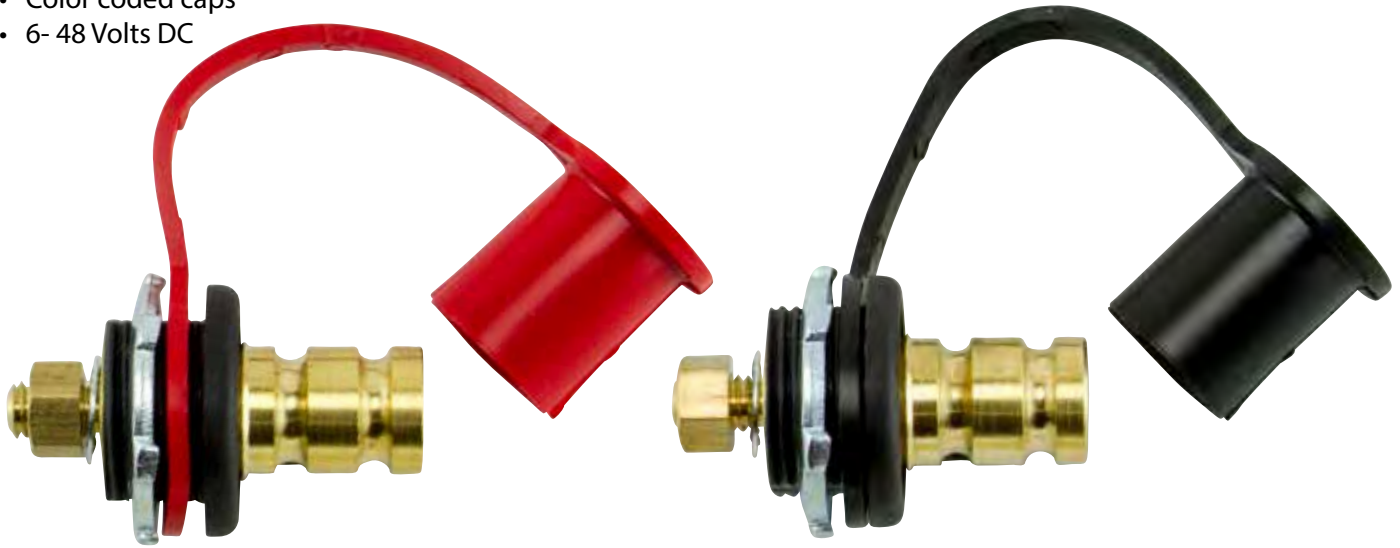


Electrical

Battery Jumper Terminals

- Easy-access battery connections
- Use inside or out of vehicle
- Solid brass posts with grooves to accept standard jumper cables
- Color coded caps
- 6- 48 Volts DC

Color	Part No.
Red	BJT1RD
Black	BJT1BK

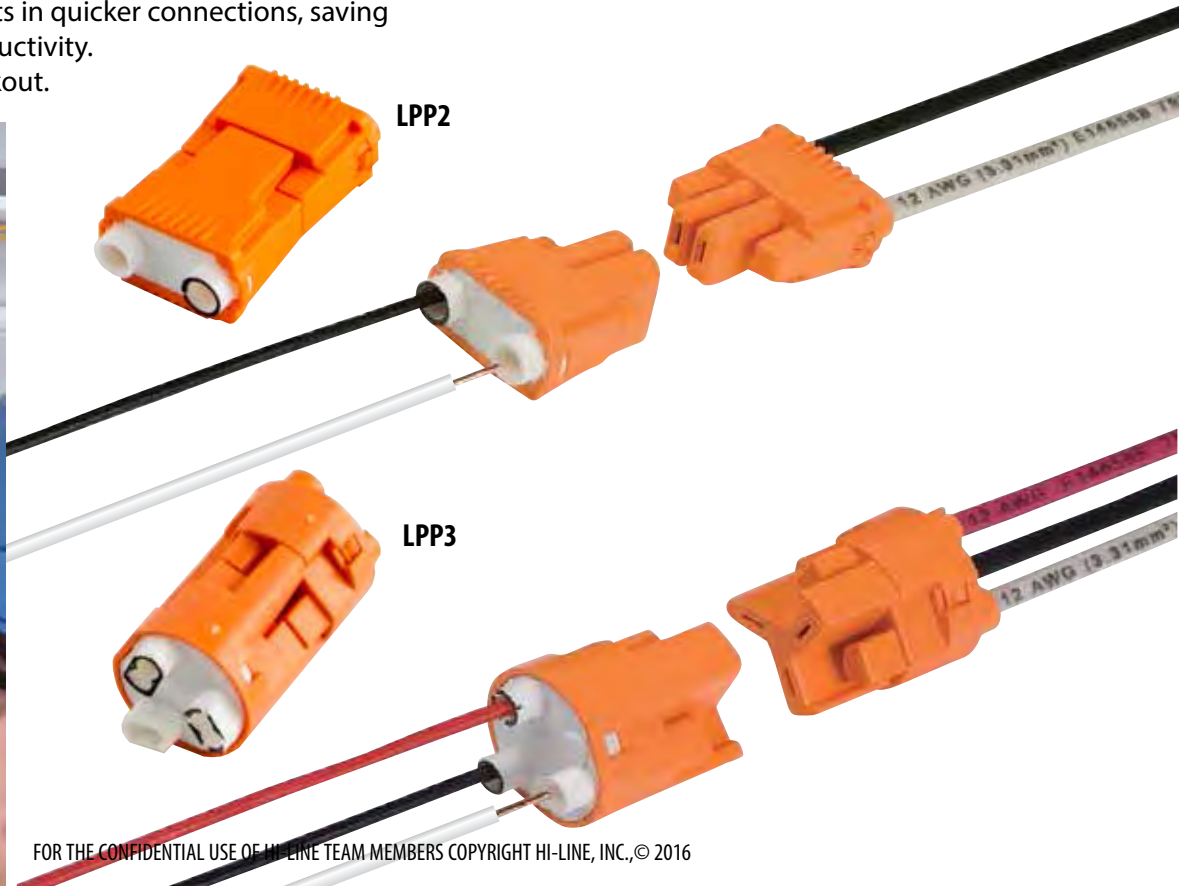


Powerplug® Luminaire Disconnects

- Patented push-in technology quickly locks wires in place.
- Allows for safe disconnect of hot and neutral ballast wiring.
- Both halves are "touch-safe" per UL 2459.
- Push-in technology results in quicker connections, saving time and increasing productivity.
- Fits through 1/2 in. knockout.

Wires	Amps	Max Volts	Part No .
2	6	600	LPP2*
3	6	600	LPP3*

* Add JUG suffix for bulk jug packaging.





AMPSEAL 16

Full Assortment

Part No. AST0212

85 Pieces (Comes in a PB32 parts bin)

Back of Drawer

 2	 2	 1					
 2	 2	 2	 2	 2	 2	 2	 2
 2	 2	 2	 2	 2	 2	 2	 2
 10	 10	 10	 10	 2	 2	 2	 2

Front of Drawer

AMP SUPERSEAL 1.5

Full Assortment

Part No. AST0213

141 Pieces (Comes in a PB21L parts bin)

Back of Drawer

					 1
 5	 5				
 5	 5	 5	 5		
 25	 25	 25	 25	 10	

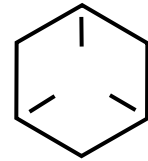
Front of Drawer



Fasteners & Hardware

Cap Screws, Grade 5 U.S.S. - Inch

- Grade 5 Cap Screws are medium strength fasteners made with a medium carbon or low alloy steel and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A354
- SAE J429
- Dimensions ANSI B18.2.1



Grade 5 U.S.S.

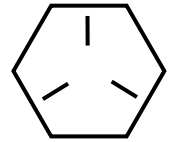
Highlighted part numbers are new products for existing line.

Hex Head Cap Screws Grade 5, U.S.S. Coarse Thread, Zinc Plated										
Diameter Length	Part No.									
	1/4" – 20	5/16" – 18	3/8" – 16	7/16" – 14	1/2" – 13	9/16" – 12	5/8" – 11	3/4" – 10	7/8" – 9	1" – 8
1/2"	20G12	20H12	20I12	–	–	–	–	–	–	–
5/8"	20G58	20H58	20I58	–	–	–	–	–	–	–
3/4"	20G34	20H34	20I34	20J34	20K34	–	–	–	–	–
7/8"	20G78	20H78	20I78	20J78	20K78	–	–	–	–	–
1"	20G1	20H1	20I1	20J1	20K1	20L1	20M1	20N1	–	–
1-1/4"	20G114	20H114	20I114	20J114	20K114	20L114	20M114	20N114	–	–
1-1/2"	20G112	20H112	20I112	20J112	20K112	20L112	20M112	20N112	20O112	20P112
1-3/4"	20G134	20H134	20I134	20J134	20K134	20L134	20M134	20N134	20O134	20P134
2"	20G2	20H2	20I2	20J2	20K2	20L2	20M2	20N2	20O2	20P2
2-1/4"	20G214	20H214	20I214	20J214	20K214	20L214	20M214	20N214	20O214	20P214
2-1/2"	20G212	20H212	20I212	20J212	20K212	20L212	20M212	20N212	20O212	20P212
2-3/4"	20G234	20H234	20I234	20J234	20K234	20L234	20M234	20N234	20O234	20P234
3"	20G3	20H3	20I3	20J3	20K3	20L3	20M3	20N3	20O3	20P3
3-1/4"	20G314	20H314	20I314	20J314	20K314	20L314	20M314	20N314	20O314	20P314
3-1/2"	20G312	20H312	20I312	20J312	20K312	20L312	20M312	20N312	20O312	20P312
3-3/4"	20G334	20H334	20I334	20J334	20K334	20L334	20M334	20N334	20O334	20P334
4"	20G4	20H4	20I4	20J4	20K4	20L4	20M4	20N4	20O4	20P4
4-1/2"	20G412	20H412	20I412	20J412	20K412	20L412	20M412	20N412	20O412	20P412
5"	20G5	20H5	20I5	20J5	20K5	20L5	20M5	20N5	20O5	20P5
5-1/2"	20G512	20H512	20I512	20J512	20K512	20L512	20M512	20N512	20O512	20P512
6"	20G6	20H6	20I6	20J6	20K6	20L6	20M6	20N6	20O6	20P6
6-1/2"	–	–	20I612	–	20K612	–	20M612	20N612	20O612	20P612
7"	–	–	20I7	–	20K7	–	20M7	20N7	20O7	20P7
7-1/2"	–	–	–	–	20K712	–	20M712	20N712	–	20P712
8"	–	–	20I8	–	20K8	–	–	20N8	20O8	20P8
9"	–	–	–	–	–	–	–	20N9	20O9	20P9
10"	–	–	–	–	–	–	20M10	20N10	20O10	20P10



Cap Screws, Grade 5 S.A.E. - Inch

- Grade 5 Cap Screws are medium strength fasteners made with a medium carbon or low alloy steel and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A354
- SAE J429
- Dimensions ANSI B18.2.1



Grade 5 S.A.E.



Highlighted part numbers are new products for existing line.

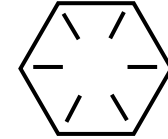
Hex Head Cap Screws										
Grade 5, S.A.E. Fine Thread, Zinc Plated										
Diameter Length	Part No.									
	1/4" - 28	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18	5/8" - 18	3/4" - 16	7/8" - 14	1" - 14
1/2"	19G12	19H12	19I12	-	-	-	-	-	-	-
5/8"	19G58	-	19I58	-	-	-	-	-	-	-
3/4"	19G34	19H34	19I34	19J34	19K34	-	-	-	-	-
7/8"	19G78	19H78	19I78	19J78	19K78	-	-	-	-	-
1"	19G1	19H1	19I1	19J1	19K1	19L1	19M1	-	-	-
1-1/4"	19G114	19H114	19I114	19J114	19K114	19L114	19M114	-	-	-
1-1/2"	19G112	19H112	19I112	19J112	19K112	19L112	19M112	19N112	19O112	19P112
1-3/4"	19G134	19H134	19I134	19J134	19K134	19L134	19M134	19N134	19O134	19P134
2"	19G2	19H2	19I2	19J2	19K2	19L2	19M2	19N2	19O2	19P2
2-1/4"	19G214	19H214	19I214	19J214	19K214	19L214	19M214	19N214	19O214	19P214
2-1/2"	19G212	19H212	19I212	19J212	19K212	19L212	19M212	19N212	19O212	19P212
2-3/4"	19G234	19H234	19I234	19J234	19K234	19L234	19M234	19N234	19O234	19P234
3"	19G3	19H3	19I3	19J3	19K3	19L3	19M3	19N3	19O3	19P3
3-1/2"	19G312	19H312	19I312	19J312	19K312	19L312	19M312	19N312	19O312	19P312
4"	19G4	19H4	19I4	19J4	19K4	19L4	19M4	19N4	19O4	19P4
4-1/2"	19G412	19H412	19I412	19J412	19K412	19L412	19M412	19N412	19O412	19P412
5"	19G5	19H5	19I5	19J5	19K5	19L5	19M5	19N5	19O5	19P5
5-1/2"	19G512	19H512	19I512	19J512	19K512	19L512	19M512	19N512	19O512	19P512
6"	19G6	19H6	19I6	19J6	19K6	19L6	19M6	19N6	19O6	19P6
6-1/2"	-	-	19I612	-	19K612	-	19M612	19N612	19O612	-
7"	-	-	-	-	-	-	19M7	19N7	-	19P7
7-1/2"	-	-	-	-	-	-	-	-	19O712	-
8"	-	-	-	-	-	-	19M8	19N8	-	19P8



Fasteners & Hardware

Cap Screws, Grade 8 U.S.S. - Inch

- Grade 8 Cap Screws are the highest strength of standard S.A.E. cap screws and are made from alloy steels and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A449
- SAE J429
- Dimensions ANSI B18.2.1

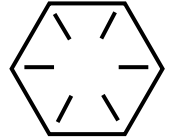


Grade 8 U.S.S.



Highlighted part numbers are new products for existing line.

Hex Head Cap Screws Grade 8, U.S.S. Coarse Thread, Yellow Zinc Plated										
Diameter Length	Part No.									
	1/4" - 20	5/16" - 18	3/8" - 16	7/16" - 14	1/2" - 13	9/16" - 12	5/8" - 11	3/4" - 10	7/8" - 9	1" - 8
1/2"	22G12	22H12	22I12	-	-	-	-	-	-	-
5/8"	22G58	22H58	22I58	-	-	-	-	-	-	-
3/4"	22G34	22H34	22I34	22J34	22K34	-	-	-	-	-
7/8"	22G78	22H78	22I78	22J78	22K78	-	-	-	-	-
1"	22G1	22H1	22I1	22J1	22K1	22L1	22M1	22N1	-	-
1-1/4"	22G114	22H114	22I114	22J114	22K114	22L114	22M114	22N114	-	-
1-1/2"	22G112	22H112	22I112	22J112	22K112	22L112	22M112	22N112	22O112	22P112
1-3/4"	22G134	22H134	22I134	22J134	22K134	22L134	22M134	22N134	22O134	22P134
2"	22G2	22H2	22I2	22J2	22K2	22L2	22M2	22N2	22O2	22P2
2-1/4"	22G214	22H214	22I214	22J214	22K214	22L214	22M214	22N214	22O214	22P214
2-1/2"	22G212	22H212	22I212	22J212	22K212	22L212	22M212	22N212	22O212	22P212
2-3/4"	22G234	22H234	22I234	22J234	22K234	22L234	22M234	22N234	22O234	22P234
3"	22G3	22H3	22I3	22J3	22K3	22L3	22M3	22N3	22O3	22P3
3-1/4"	22G314	22H314	22I314	22J314	22K314	22L314	22M314	22N314	22O314	22P314
3-1/2"	22G312	22H312	22I312	22J312	22K312	22L312	22M312	22N312	22O312	22P312
3-3/4"	22G334	22H334	22I334	22J334	22K334	22L334	22M334	22N334	22O334	22P334
4"	22G4	22H4	22I4	22J4	22K4	22L4	22M4	22N4	22O4	22P4
4-1/2"	22G412	22H412	22I412	22J412	22K412	22L412	22M412	22N412	22O412	22P412
5"	22G5	22H5	22I5	22J5	22K5	22L5	22M5	22N5	22O5	22P5
5-1/2"	22G512	22H512	22I512	22J512	22K512	22L512	22M512	22N512	22O512	22P512
6"	22G6	22H6	22I6	22J6	22K6	22L6	22M6	22N6	22O6	22P6
6-1/2"	22G612	22H612	22I612	22J612	22K612	-	22M612	-	22O612	22P612
7"	22G7	22H7	22I7	22J7	22K7	-	22M7	22N7	22O7	22P7
7-1/2"	22G712	-	22I712	22J712	22K712	-	22M712	22N712	22O712	22P712
8"	22G8	22H8	22I8	22J8	22K8	-	22M8	22N8	22O8	22P8
8-1/2"	-	-	-	-	-	-	22M812	22N812	22O812	22P812
9"	-	-	-	-	-	-	22M9	22N9	22O9	22P9
9-1/2"	-	-	-	-	-	-	22M912	22N912	22O912	22P912
10"	-	-	-	-	-	-	22M10	22N10	22O10	22P10



Grade 8 S.A.E.

Cap Screws, Grade 8 S.A.E. - Inch

- Grade 8 Cap Screws are the highest strength of standard S.A.E. cap screws and are made from alloy steels and achieve their strength from a quench and temper heat treatment.
- Meets ASTM and SAE specifications
- ASTM A449
- SAE J429
- Dimensions ANSI B18.2.1



Highlighted part numbers are new products for existing line.

**Hex Head Cap Screws
Grade 8, S.A.E. Fine Thread, Yellow Zinc Plated**

Diameter Length	Part No.									
	1/4" - 28	5/16" - 24	3/8" - 24	7/16" - 20	1/2" - 20	9/16" - 18	5/8" - 18	3/4" - 16	7/8" - 14	1" - 14
1/2"	21G12	21H12	21I12	-	-	-	-	-	-	-
5/8"	21G58	21H58	21I58	-	-	-	-	-	-	-
3/4"	21G34	21H34	21I34	21J34	21K34	-	-	21N34	-	-
7/8"	21G78	21H78	21I78	21J78	21K78	-	-	-	-	-
1"	21G1	21H1	21I1	21J1	21K1	21L1	21M1	21N1	-	-
1-1/4"	21G114	21H114	21I114	21J114	21K114	21L114	21M114	-	-	-
1-1/2"	21G112	21H112	21I112	21J112	21K112	21L112	21M112	21N112	21O112	21P112
1-3/4"	21G134	21H134	21I134	21J134	21K134	21L134	21M134	21N134	21O134	21P134
2"	21G2	21H2	21I2	21J2	21K2	21L2	21M2	21N2	21O2	21P2
2-1/4"	21G214	21H214	21I214	21J214	21K214	21L214	21M214	21N214	21O214	21P214
2-1/2"	21G212	21H212	21I212	21J212	21K212	21L212	21M212	21N212	21O212	21P212
2-3/4"	21G234	21H234	21I234	21J234	21K234	21L234	21M234	21N234	21O234	21P234
3"	21G3	21H3	21I3	21J3	21K3	21L3	21M3	21N3	21O3	21P3
3-1/2"	21G312	21H312	21I312	21J312	21K312	21L312	21M312	21N312	21O312	21P312
3-3/4"	21G334	21H334	21I334	21J334	21K334	21L334	21M334	21N334	21O334	21P334
4"	21G4	21H4	21I4	21J4	21K4	21L4	21M4	21N4	21O4	21P4
4-1/2"	21G412	21H412	21I412	21J412	21K412	21L412	21M412	21N412	21O412	21P412
5"	21G5	21H5	21I5	21J5	21K5	21L5	21M5	21N5	21O5	21P5
5-1/2"	21G512	21H512	21I512	21J512	21K512	21L512	21M512	21N512	21O512	21P512
6"	21G6	21H6	21I6	21J6	21K6	21L6	21M6	21N6	21O6	21P6
6-1/2"	21G612	-	-	-	-	-	21M612	21N612	21O612	21P612
7"	21G7	21H7	21I7	-	-	-	21M7	21N7	21O7	21P7
7-1/2"	-	21H712	21I712	-	-	-	21M712	21N712	21O712	21P712
8"	21G8	-	-	-	-	-	21M8	21N8	21O8	21P8
8-1/2"	-	-	-	-	-	-	21M812	21N812	21O812	21P812
9"	-	-	-	-	-	-	-	21N9	-	21P9
9-1/2"	-	-	-	-	-	-	-	21N912	21O912	21P912
10"	-	-	-	-	-	-	-	21N10	21O10	21P10



Silicon Bronze Fasteners

- High resistance to corrosive influences such as weather (temperature, rain etc.), seawater, gases and sewage
- Non-magnetic
- Popular with power and sewage utilities
- Common applications include: pole line, switchgear equipment, sewage disposal, marine, valves, chemical, plumbing, food processing, and petroleum processing.



Hex Head Cap Screws, Silicon Bronze U.S.S. Coarse Thread					
Diameter Length	Part No.				
	1/4" – 20	5/16" – 18	3/8" – 16	7/16" – 14	1/2" – 13
1/2"	537G12	537H12	537I12	-	-
5/8"	537G58	537H58	-	-	-
3/4"	537G34	537H34	537I34	537J34	537K34
7/8"	537G78	537H78	-	-	-
1"	537G1	537H1	537I1	537J1	537K1
1-1/4"	537G114	537H114	537I114	537J114	537K114
1-1/2"	537G112	537H112	537I112	537J112	537K112
1-3/4"	537G134	537H134	537I134	537J134	537K134
2"	537G2	537H2	537I2	537J2	537K2
2-1/2"	537G212	537H212	537I212	537J212	537K212
3"	537G3	537H3	537I3	537J3	537K3
3-1/2"	537G312	537H312	537I312	-	537K312
4"	537G4	537H4	537I4	-	537K4



Hex Nuts Silicon Bronze	
Dia. (in)	Part No.
1/4-20	538G
5/16-18	538H
3/8-16	538I
7/16-14	538J
1/2-13	538K



Flat Washers Silicon Bronze	
Dia. (in)	Part No.
1/4	540G
5/16	540H
3/8	540I
7/16	540J
1/2	540K

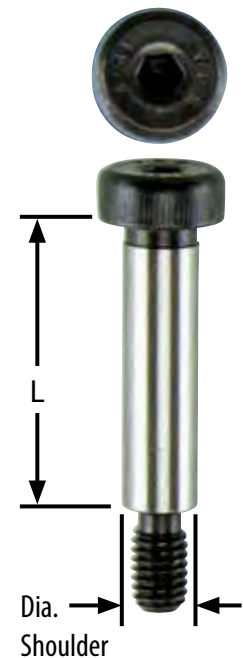


Split Lock Washers Silicon Bronze	
Dia. (in)	Part No.
1/4	539G
5/16	539H
3/8	539I
7/16	539J
1/2	539K



Hex Head Drill Point Screws with Bonded Washer				
Screw – T-410 Stainless Steel, Washer – 18-8 Stainless Steel/Neoprene				
Diameter Length	Part No.			
	#8	#10	#12	#14
3/4"	411D34	411E34	411F34	411G34
1"	411D1	411E1	411F1	411G1
1-1/4"	-	411E114	411F114	411G114
1-1/2"	-	411E112	411D112	411G112
2"	-	411E2	411F2	411G2
2-1/2"	-	-	-	411G212
3"	-	-	-	411G3

Metric Socket Head Shoulder Screws, Class 12.9						
Shoulder Length (mm)	Part No.					Shoulder Dia.
	M6	M8	M10	M12	M16	
	M5-.70	M6-.80	M8-1.00	M10-1.25	M12-1.50	Thread Dia. - TPI
10	595610	595810	-	-	-	
12	595612	595812	-	-	-	
16	595616	595816	5951016	-	-	
20	595620	595820	5951020	5951220	5951620	
25	595625	595825	5951025	5951225	5951625	
30	595630	595830	5951030	5951230	5951630	
40	-	595840	5951040	5951240	5951640	
50	-	-	5951050	5951250	5951650	





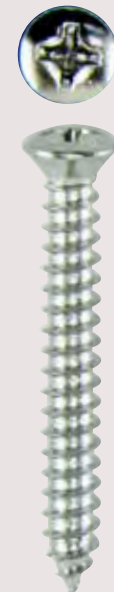
 = Extra Fine Thread

Socket Flat Head Cap Screws 18-8 Stainless Steel							
Diameter Length	Part No.						
	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16
1/4"	486C14	486D14	486E14	486EF14	-	-	-
3/8"	486C38	486D38	486E38	486EF38	-	-	-
1/2"	486C12	486D12	486E12	486EF12	486G12	-	-
3/4"	486C34	486D34	486E34	486EF34	486G34	486H34	486I34
1"	486C1	486D1	486E1	486EF1	486G1	486H1	486I1
1-1/2"	486C112	486D112	486E112	486EF112	486G112	486H112	486I112
2"	-	-	-	486EF2	486G2	486H2	486I2



Hex Jam Nuts 18-8 Stainless Steel	
Size	Part No.
1/4" - 20	50GJN
5/16" - 18	50HJN
3/8" - 16	50IJN
7/16" - 14	50JJN
1/2" - 13	50KJN
5/8" - 11	50MJN
3/4" - 10	50NJN

Trim Screws - Chrome Phillips Oval Head Sheet Metal with Undersize Head	
Size (in)	Part No.
#8 X 3/8	278D38C
#8 X 1/2	278D12C
#8 X 3/4	278D34C
#8 X 1	278D1C
#8 X 1-1/4	278D114C
#8 X 1-1/2	278D112C
#8 X 1-3/4	278D134C
#10 X 1/2	278E12C
#10 X 3/4	278E34C
#10 X 1	278E1C
#10 X 1-1/4	278E114C
#10 X 1-1/2	278E112C
#10 x 1-3/4	278E134C
#10 x 1/2	278E12D
#10 X 3/4	278E34D
#10 X 1	278E1D
#10 X 1-1/4	278E114D



Chrome Trim Screws have reduced sized head #6.



Trim Screws – Black

Trim Screws - Black Phillips Oval Head, Sheet Metal	
Size (in)	Part No.
#6 X 1/2	280C12BK
#6 X 3/4	280C34BK
#6 X 1	280C1BK
#8 X 1/2	280D12BK
#8 X 3/4	280D34BK
#8 X 1	280D1BK
#8 X 1-1/4	280D114BK
#8 X 1-1/2	280D112BK
#10 X 3/4	280E34BK
#10 X 1	280E1BK
#10 X 1-1/4	280E114BK
#10 X 1-1/2	280E112BK



Trim Screws - Black Phillips Oval Head, Loose Washer Head, Sheet Metal	
Size (in)	Part No.
#8 x 5/8	281D58BK
#8 X 3/4	281D34BK
#8 X 1	281D1BK
#8 X 1-1/2	281D112BK
#10 X 3/4	281E34BK
#10 X 1	281E1BK



Trim Screws - Black Phillips Pan Head, Sheet Metal	
Size (in)	Part No.
#6 X 1/2	285C12BK
#6 X 3/4	285C34BK
#6 X 1	285C1BK
#6 x 1-1/4	285C114BK
#8 X 1/2	285D12BK
#8 X 3/4	285D34BK
#8 X 1	285D1BK
#8 X 1-1/4	285D114BK
#8 X 1-1/2	285D112BK
#10 X 1/2	285E12BK
#10 X 3/4	285E34BK
#10 X 1	285E1BK
#10 X 1-1/4	285E114BK
#10 X 1-1/2	285E112BK



Trim Screws - Black Phillips Flat Top Washer Head, Sheet Metal	
Size (in)	Part No.
#8 X 1/2 X 13/32 WSH OD	282D12BK
#8 X 5/8 X 13/32 WSH OD	282D58BK
#8 X 3/4 X 13/32 WSH OD	282D34BK
#8 X 3/4 X 1/2 WSH OD	282D34LBK
#8 X 1 X 13/32 WSH OD	282D1BK
#8 X 1-1/4 X 13/32 WSH OD	282D114BK
#8 X 1-1/2 X 13/32 WSH OD	282D112BK
#10 X 1/2 X 1/2 WSH OD	282E12BK
#10 X 3/4 X 1/2 WSH OD	282E34BK
#10 X 1 X 1/2 WSH OD	282E1BK



Trim Screws - Black Hex Loose Washer Sheet Metal - Metric	
Size (mm)	Part No.
M4.2 X 20 X M12 WSH OD	284422012
M4.2 X 20 X M17 WSH OD	284422017



Trim Screws - Black Phillips Oval Loose Washer Head Self Drill	
Size (in)	Part No.
#8 X 3/4	283D34BK
#8 X 1	283D1BK
#8 X 1-1/4	283D114BK



Trim Screws - Black Phillips Oval Washer Head Self Drill	
Size (in)	Part No.
#8 X 1/2 X 7/16 WSH OD	286D12BK
#8 X 3/4 X 7/16 WSH OD	286D34BK
#8 X 1 X 7/16 WSH OD	286D1BK





Blind Rivets

 Highlighted part numbers are new products for existing line.



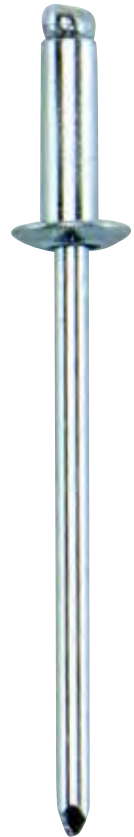
Aluminum Blind Rivets				
Rivet Diameter	Hole Size & Drill No.	Grip Range (in)	Head Diameter (in)	Part No.
3/32" (.094)	.097 – .100 #41	.063 – .125	0.188	AA32R
		.188 – .250	0.188	AA34R
1/8" (.125)	.129 – .133 #30	.020 – .062	0.25	AA41R
		.063 – .125	0.25	AA42R
		.188 – .250	0.25	AA44R
		.312 – .375	0.25	AA46R
		.376 – .500	0.25	AA48R
		.501 – .625	0.25	AA410R
		.063 – .125	0.375	AA42L*
5/32" (.156)	.160 – .164 #20	.126 – .250	0.312	AA54R
		.251 – .375	0.312	AA56R
		.367 – .500	0.312	AA58R
3/16" (.187)	.192 – .196 #11	.062 – .125	0.375	AA62R
		.126 – .250	0.375	AA64R
		.251 – .375	0.375	AA66R
		.376 – .500	0.375	AA68R
		.501 – .625	0.375	AA610R
		.626 – .750	0.375	AA612R
		.751 – 1.00	0.375	AA616R
		.251 – .375	0.615	AA66L*
		.376 – .500	0.615	AA68L*
		.626 – .750	0.615	AA612L*
.751 – 1.00	0.615	AA616L*		
1/4" (.250)	.257 – .261 F	.126 – .250	0.5	AA84R
		.251 – .375	0.5	AA86R
		.376 – .500	0.5	AA88R
		.501 – .625	0.5	AA810R
		.626 – .750	0.5	AA812R
		.751 – .875	0.5	AA814R

*Large Flange
Aluminum rivet/Aluminum mandrel
Button Head IFJ Grade II

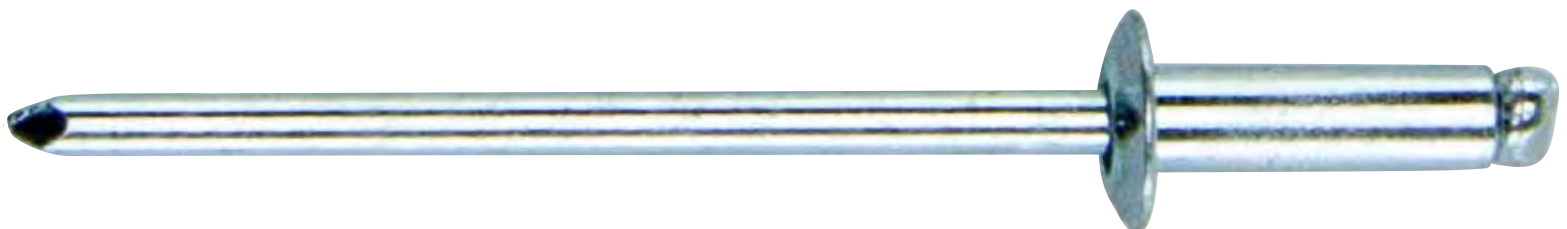




Steel Blind Rivets				
Rivet Diameter	Hole Size & Drill No.	Grip Range (in)	Head Diameter (in)	Part No.
3/32" (.094)	.097 – .100 #41	.063 – .125	0.188	SB32R
		.188 – .250	0.188	SB34R
1/8" (.125)	.129 – .133 #30	.063 – .125	0.25	SB42R
		.188 – .250	0.25	SB44R
		.312 – .375	0.25	SB46R
		.376 – .500	0.25	SB48R
		.501 – .625	0.25	SB410R
5/32" (.156)	.160 – .164 #20	.126 – .250	0.312	SB54R
		.251 – .375	0.312	SB56R
		.367 – .500	0.312	SB58R
		.501 – .625	0.312	SB510R
		.626 – .750	0.312	SB512R
3/16" (.187)	.192 – .196 #11	.062 – .125	0.375	SB62R
		.126 – .250	0.375	SB64R
		.251 – .375	0.375	SB66R
		.376 – .500	0.375	SB68R
		.501 – .625	0.375	SB610R
		.626 – .750	0.375	SB612R
		.751 – .875	0.375	SB614R
		.876 – 1.00	0.375	SB616R
		.376 – .500	0.615	SB68L*
		.626 – .750	0.615	SB612L*
		.876 – 1.00	0.615	SB616L*
1/4" (.250)	.257 – .261 F	.126 – .250	0.5	SB84R
		.251 – .375	0.5	SB86R
		.376 – .500	0.5	SB88R
		.501 – .625	0.5	SB810R
		.626 – .750	0.5	SB812R
		.751 – .875	0.5	SB814R



*Large Flange
Steel rivet/Steel mandrel
Button Head IFJ Grade II



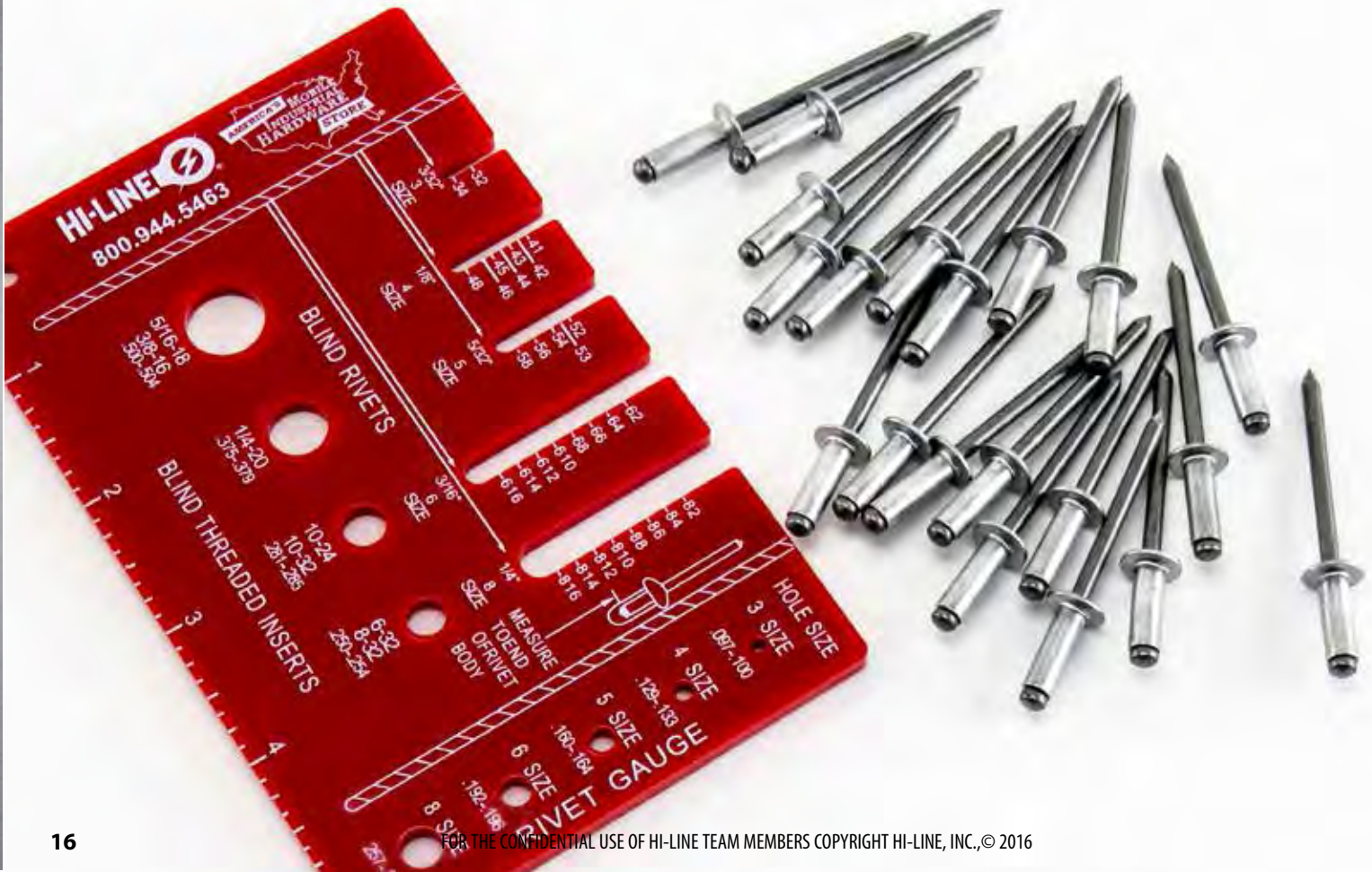


Fasteners & Hardware



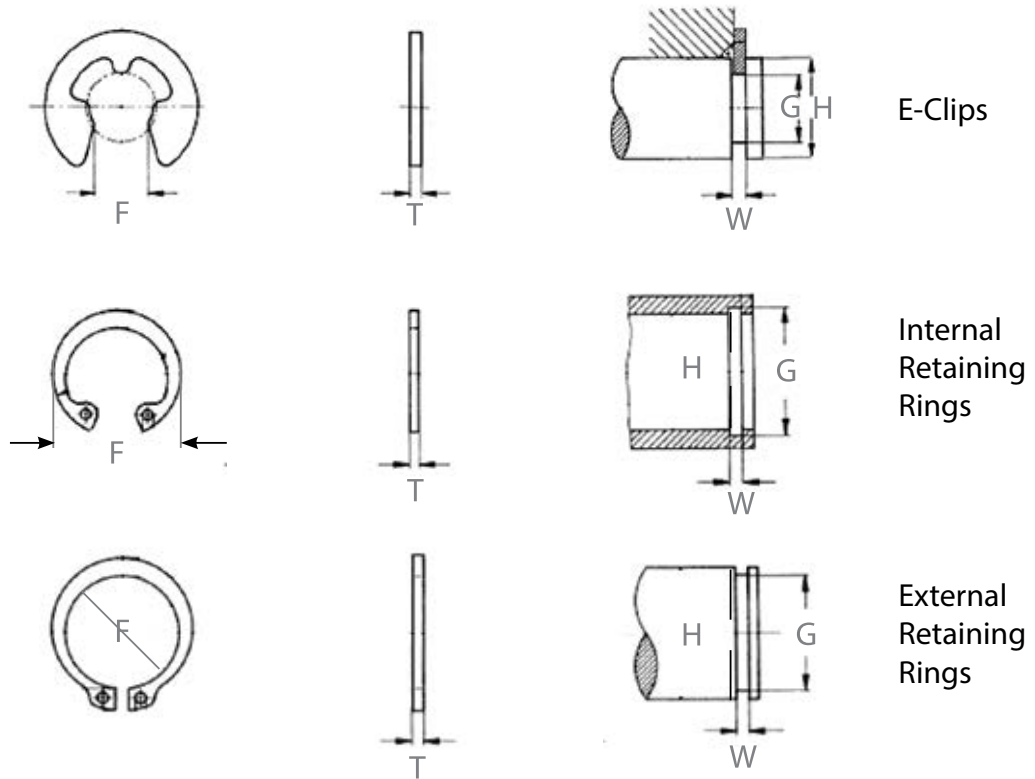
Stainless Steel Blind Rivets				
Rivet Diameter	Hole Size & Drill No.	Grip Range (in)	Head Diameter (in)	Part No.
1/8" (.125)	.129 – .133 #30	.063 – .125	0.25	SSB42R
		.188 – .250	0.25	SSB44R
		.312 – .375	0.25	SSB46R
		.376 – .500	0.25	SSB48R
5/32" (.156)	.160 – .164 #20	.126 – .250	0.312	SSB54R
		.251 – .375	0.312	SSB56R
3/16" (.187)	.192 – .196 #11	.062 – .125	0.375	SSB62R
		.126 – .250	0.375	SSB64R
		.251 – .375	0.375	SSB66R
		.376 – .500	0.375	SSB68R
		.501 – .625	0.375	SSB610R
		.626 – .750	0.375	SSB612R
		.751 – 1.00	0.375	SSB616R
		.376 – .500	0.615	SSB68L*
		.626 – .750	0.615	SSB612L*

*Large Flange
Stainless Steel rivet/Stainless Steel mandrel
Button Head IFJ Grade II





Retaining Rings



E-Clips Stainless Steel						
Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thickness	Part No.
	H	G	W	F	T	
1/16"	0.062	0.052	0.012	0.051	0.010	ECSS116
3/32"	0.094	0.074	0.020	0.073	0.015	ECSS332
1/8"	0.125	0.095	0.020	0.094	0.015	ECSS18
5/32"	0.156	0.116	0.029	0.114	0.025	ECSS532
3/16"	0.188	0.147	0.029	0.145	0.025	ECSS316
1/4"	0.250	0.210	0.029	0.207	0.025	ECSS14
3/8"	0.375	0.303	0.039	0.300	0.035	ECSS38
7/16"	0.438	0.343	0.039	0.337	0.035	ECSS716
1/2"	0.500	0.396	0.046	0.392	0.042	ECSS12
5/8"	0.625	0.485	0.046	0.480	0.042	ECSS58
3/4"	0.750	0.625	0.056	0.616	0.050	ECSS34
7/8"	0.875	0.675	0.056	0.668	0.050	ECSS78





Fasteners & Hardware



Internal Retaining Rings Stainless Steel						
Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thick.	Part No.
	H	G	W	F	T	
1/4"	0.25	0.268	0.018	0.28	0.015	IRSS14
5/16"	0.312	0.33	0.018	0.346	0.015	IRSS516
3/8"	0.375	0.397	0.029	0.415	0.025	IRSS38
7/16"	0.438	0.461	0.029	0.482	0.025	IRSS716
1/2"	0.5	0.53	0.039	0.548	0.035	IRSS12
9/16"	0.562	0.596	0.039	0.62	0.035	IRSS916
5/8"	0.625	0.665	0.039	0.694	0.035	IRSS58
11/16"	0.688	0.732	0.039	0.763	0.035	IRSS1116
3/4"	0.75	0.796	0.039	0.831	0.035	IRSS34
13/16"	0.812	0.862	0.046	0.901	0.042	IRSS1316
7/8"	0.875	0.931	0.046	0.971	0.042	IRSS78
15/16"	0.938	1.0	0.046	1.041	0.042	IRSS1516
1"	1.0	1.066	0.046	1.111	0.042	IRSS10
1-1/16"	1.062	1.13	0.056	1.18	0.05	IRSS10116
1-1/8"	1.125	1.197	0.056	1.249	0.05	IRSS1018
1-3/16"	1.188	1.262	0.056	1.319	0.05	IRSS10316
1-1/4"	1.25	1.33	0.056	1.388	0.05	IRSS1014
1-5/16"	1.312	1.396	0.056	1.456	0.05	IRSS10516
1-3/8"	1.375	1.461	0.056	1.526	0.05	IRSS1038
1-7/16"	1.438	1.528	0.056	1.596	0.05	IRSS10716
1-1/2"	1.5	1.594	0.056	1.66	0.05	IRSS1012
1-9/16"	1.562	1.658	0.068	1.734	0.062	IRSS10916
1-5/8"	1.625	1.725	0.068	1.804	0.062	IRSS1058
1-11/16"	1.688	1.792	0.068	1.874	0.062	IRSS101116
1-3/4"	1.75	1.858	0.068	1.942	0.062	IRSS10134
1-13/16"	1.812	1.922	0.068	2.012	0.062	IRSS101316
1-7/8"	1.875	1.989	0.068	2.072	0.062	IRSS1078
1-15/16"	1.938	2.056	0.068	2.141	0.062	IRSS101516
2"	2.0	2.122	0.068	2.21	0.062	IRSS20

External Retaining Rings Stainless Steel						
Size	Shaft	Groove Dia.	Groove Width	Free Dia.	Thick.	Part No.
	H	G	W	F	T	
1/4"	0.250	0.230	0.029	0.225	0.025	ERSS14
5/16"	0.312	0.290	0.029	0.281	0.025	ERSS516
3/8"	0.375	0.352	0.029	0.338	0.025	ERSS38
7/16"	0.438	0.412	0.029	0.395	0.025	ERSS716
1/2"	0.500	0.468	0.039	0.461	0.035	ERSS12
9/16"	0.562	0.530	0.039	0.521	0.035	ERSS916
5/8"	0.625	0.588	0.039	0.579	0.035	ERSS58
11/16"	0.688	0.646	0.046	0.635	0.042	ERSS1116
3/4"	0.750	0.704	0.046	0.693	0.042	ERSS34
25/32"	0.781	0.735	0.046	0.722	0.042	ERSS2532
13/16"	0.812	0.762	0.046	0.751	0.042	ERSS1316
7/8"	0.875	0.821	0.046	0.810	0.042	ERSS78
15/16"	0.938	0.882	0.046	0.867	0.042	ERSS1516
1"	1.000	0.940	0.046	0.925	0.042	ERSS10
1-1/16"	1.062	0.998	0.056	0.982	0.050	ERSS10116
1-1/8"	1.125	1.059	0.056	1.0441	0.050	ERSS1018
1-3/16"	1.188	1.118	0.056	1.098	0.050	ERSS10316
1-1/4"	1.250	1.176	0.056	1.156	0.050	ERSS1014
1-5/16"	1.312	1.232	0.056	1.214	0.050	ERSS10516
1-3/8"	1.375	1.291	0.056	1.272	0.050	ERSS1038
1-7/16"	1.438	1.350	0.056	1.333	0.050	ERSS10716
1-1/2"	1.500	1.406	0.056	1.387	0.050	ERSS1012
1-9/16"	1.562	1.468	0.068	1.446	0.062	ERSS10916
1-5/8"	1.625	1.529	0.068	1.503	0.062	ERSS1058
1-3/4"	1.750	1.650	0.068	1.618	0.062	ERSS1034
1-7/8"	1.875	1.769	0.068	1.735	0.062	ERSS1078
2"	2.000	1.886	0.068	1.850	0.062	ERSS20



Thomas & Betts

High Performance

Hi-Line's CTB Cable Ties are manufactured by Thomas & Betts using the TY-RAP® trade name. These special nylon cable ties feature a stainless steel locking device in the head to maintain a secure grip and are U.L. listed under FILE NO. E49495. Temp. rating: 40°F – 185°F. Flammability rating: U.L. 94Y-2.

All black cable ties are weather-resistant, UV-stabilized nylon.

Highlighted part numbers are new products for existing line.

L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.	Mil-Standard / SAE Standard
3.62	.093	.625	18	Natural	CTB4	MS3367-4 / AS33671-4
					CTB4B3*	
				Black	CTB4B	
					CTB4B3*	
5.5	.140	1.125	40	Natural	CTB6	MS3367-5 / AS33671-5
					CTB6B3*	
				Black	CTB6B	
					CTB6B3*	
7.31	.185	1.75	50	Natural	CTB7	MS3367-1 / AS33671-1
					CTB7B3*	
				Black	CTB7B	
					CTB7B3*	
7	.092	1.5	18	Natural	CTB7M	
				Black	CTB7MB	
8.19	.140	2	40	Natural	CTB8	
				Black	CTB8B	
8.75	.270	2	120	Black	CTB9B	
11.1	.140	3	40	Natural	CTB11	
				Black	CTB11B	
11.6	0.190	3	50	Natural	CTB12	MS3367-7 / AS33671-7
				Black	CTB12B	
14.2	.187	4	50	Natural	CTB14	MS3367-2 / AS33671-2
				Black	CTB14B	
13.4	.270	3.5	120	Natural	CTB15	MS3367-3 / AS33671-3
				Black	CTB15B	
24.3	.270	7	120	Natural	CTB24	
				Black	CTB24B	
30.3w	.270	9	120	Natural	CTB30	MS3367-6 / AS33671-6
				Black	CTB30B	



*Packs of 500.



CTMS58BK



CTMS14BK

Stud Type Cable Tie Mounts					
L (in)	W (in)	H (in)	Stud Dia. (in)	Color	Part No.
1.25	.48	.95	1/4	Black	CTMS14BK
1.99	1.00	1.10	3/8	Black	CTMS38BK
1.99	1.00	1.10	1/2	Black	CTMS12BK
1.99	1.00	1.10	5/8	Black	CTMS58BK



Cable Tie Swivel Mounts

- The two mounts are securely fastened together with a connecting rivet that allows both mounts to rotate.
- Can join bundles of cable, tubing or hoses that may need to move or are not parallel.
- Mount separate bundles to avoid abrasion.
- Pull apart force: 250 lbs.



CTMSW2BK



CTMSW5BK

Cable Tie Swivel Mounts				
L (in)	W (in)	H (in)	Color	Part No.
.87	.62	.75	Black	CTMSW2BK
1.64	.721	1.23	Black	CTMSW5BK



Cable Tie Fir Mounts				
Hole Size (in)	Head Dia. (in)	H (in)	Color	Part No.
1/4	.67	.67	Black	CFM14BK
3/8	.77	1.05	Black	CFM38BK



CFM14BK



CFM38BK



PANDUIT®

Extra-Heavy Cable Tie Mounts – Screw Mount

- Cradle design provides maximum stability for cable bundle.
- Route and support large diameter and heavy cable bundle.



Cable Tie Extra-Heavy Mounts						
Top L (in)	Bottom L (in)	W (in)	H (in)	Color	Screw size	Part No.
1.65	1.05	.74	.61	Black	#8 (M4)	CTM10BK
1.65	1.05	.74	.61	Black	#10 (M5)	CTM11BK
1.65	1.05	.74	.61	Black	1/4" (M6)	CTM12BK



Triple Loop					
L (in)	W (in)	Max Bundle Dia. (in)	Tensile Strength (lb)	Color	Part No.
20	.5 (1/2")	5	125	Black	CT20TLB

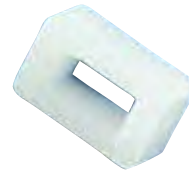


Cable Tie Connector Rings

- Connect multiple cable bundles.

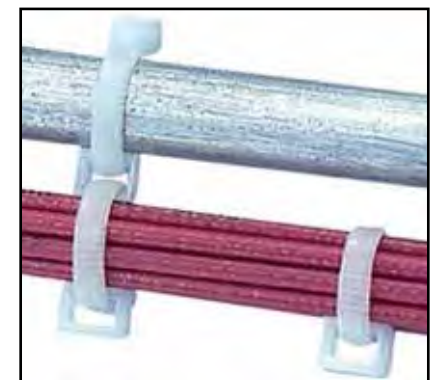


CTCR2



CTCR4

Cable Tie Connector Rings				
L (in)	W (in)	H (in)	Color	Part No.
0.33	0.20	0.20	Natural	CTCR2
0.57	0.36	0.30	Natural	CTCR4





O-Rings



Straight Thread Boss O-Rings FKM Temp Range -13°F to 392°F, 90 Durometer			
Thick (in)	I.D. (in)	Port Size	Part No.
0.056	0.185	1/16"	ORVB901
0.064	0.239	1/8"	ORVB902
0.064	0.301	3/16"	ORVB903
0.072	0.351	1/4"	ORVB904
0.072	0.414	5/16"	ORVB905
0.078	0.468	3/8"	ORVB906
0.082	0.53	7/16"	ORVB907
0.087	0.644	1/2"	ORVB908
0.097	0.706	9/16"	ORVB909
0.097	0.755	5/8"	ORVB910
0.116	0.863	11/16"	ORVB911
0.116	0.924	3/4"	ORVB912
0.116	0.986	13/16"	ORVB913
0.116	1.047	7/8"	ORVB914
0.116	1.171	1"	ORVB916
0.116	1.355	1-1/8"	ORVB918
0.118	1.475	1-1/4"	ORVB920
0.118	1.72	1-1/2"	ORVB924
0.118	2.09	1-3/4"	ORVB928
0.118	2.337	2"	ORVB932



FOR-SEAL O-Rings Buna-N Temp Range -40°F to 248°F, 90 Durometer			
Thick (in)	I.D. (in)	Port Size	Part No.
0.070	0.301	1/4"	4629X4
0.070	0.364	3/8"	4629X6
0.070	0.489	1/2"	4629X8
0.070	0.614	5/8"	4629X10
0.070	0.739	3/4"	4629X12
0.070	0.926	1"	4629X16
0.070	1.176	1-1/4"	4629X20
0.070	1.489	1-1/2"	4629X24

Straight Thread Boss O-Rings Buna-N Temp Range -40°F to 248°F, 90 Durometer			
Thick (in)	I.D. (in)	Port Size	Part No.
0.056	0.185	1/16"	7629X1
0.064	0.239	1/8"	7629X2
0.064	0.301	3/16"	7629X3
0.072	0.351	1/4"	7629X4
0.072	0.414	5/16"	7629X5
0.078	0.468	3/8"	7629X6
0.082	0.53	7/16"	7629X7
0.087	0.644	1/2"	7629X8
0.097	0.755	5/8"	7629X10
0.116	0.924	3/4"	7629X12
0.116	1.047	7/8"	7629X14
0.116	1.171	1"	7629X16
0.118	1.475	1-1/4"	7629X20
0.118	1.72	1-1/2"	7629X24
0.118	2.337	2"	7629X32



FOR-SEAL O-Rings FKM Temp Range -13°F to 392°F, 90 Durometer			
Thick (in)	I.D. (in)	Port Size	Part No.
0.070	0.301	1/4"	ORV011D90
0.070	0.364	3/8"	ORV012D90
0.070	0.489	1/2"	ORV014D90
0.070	0.614	5/8"	ORV016D90
0.070	0.739	3/4"	ORV018D90
0.070	0.926	1"	ORV021D90
0.070	1.176	1-1/4"	ORV025D90
0.070	1.489	1-1/2"	ORV029D90



SAE FLANGE O-Rings Buna-N Temp Range -40°F to 248°F, 90 Durometer			
Thick (in)	I.D. (in)	Port Size	Part No.
0.139	0.734	1/2"	8X252
0.139	0.984	3/4"	12X252
0.139	1.296	1"	16X252
0.139	1.484	1-1/4"	20X252
0.139	1.859	1-1/2"	24X252
0.139	2.234	2"	32X252





Twist-Lock Universal Couplers

- Twist lock couplers are malleable iron
- Commonly referred to as “Crowfoot” or “Claw” type couplers
- Milton twist lock couplers come complete with safety clip and lanyard
- Maximum working pressure: 150 PSI
- Maximum temperature: 160° F
- 1/4” to 1” couplings can be used with each other. 1-1/4”, 1-1/2” and 2” cannot be used with the smaller sizes

WARNING: TWIST LOCK COUPLERS ARE NOT FOR STEAM OR HYDRAULIC APPLICATIONS.

Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
3/8” hose barb	2	1862-4	CCHB6
1/2” hose barb	2	1862-6	CCHB8
3/4” hose barb	2	1862-8	CCHB12
1” hose barb	2	1862	CCHB16
1 1/4” hose barb	4	1862-10	CCHB20
1 1/2” hose barb	4	1862-12	CCHB24
2” hose barb	4	1862-14	CCHB32
1/4” NPT male	2	1863-2	CCMP4
3/8” NPT male	2	1863-4	CCMP6
1/2” NPT male	2	1863-6	CCMP8
3/4” NPT male	2	1863-8	CCMP12
1” NPT male	2	1863	CCMP16
1/4” NPT female	2	1864-2	CCFP4
3/8” NPT female	2	1864-4	CCFP6
1/2” NPT female	2	1864-6	CCFP8
3/4” NPT female	2	1864-8	CCFP12
1” NPT female	2	1864	CCFP16
1 1/4” NPT female	4	1864-10	CCFP20
1 1/2” NPT female	4	1864-12	CCFP24
2” NPT female	4	1864-14	CCFP32



CTCR4



CTCR4



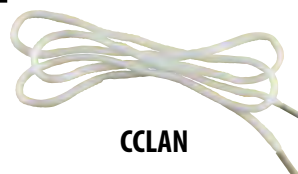
CTCR4



CCMP16



CCSC



CCLAN

Connection Size	Accessory	Milton Part No.	Hi-Line Part No.
	Safety Clip	1865-1	CCSC
	Lanyard	1865-2	CCLAN
1/4” to 1”	Replacment Rubber Grommet	1865-3	CCRGS
1-1/4” to 2”	Replacment Rubber Grommet	1865-4	CCRGL



CCRGL



CCRGS

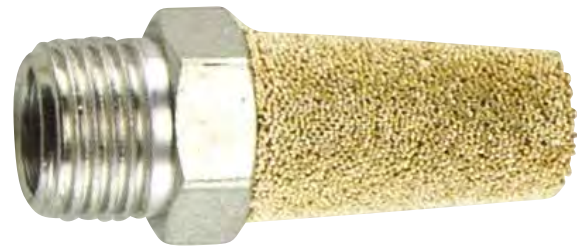


Pneumatic Exhaust Mufflers

Mufflers use a porous sintered bronze, bonded to a copper plated steel pipe threaded fitting. These 40 micron exhaust mufflers diffuse air and muffle noise from exhaust ports of air tools, cylinders and valves to an acceptable OSHA noise requirements.

- Maximum operating pressure: 300 PSI
- Maximum air flow: 20 SCFM @ 100 PSI
- Operating temperatures: 40° F to 300° F

Size NPT	Length	Hex	Milton Part No.	Part No.
1/8	1-1/8"	7/16"	1886-2	PEM2
1/4	1-3/8"	9/16"	1886-4	PEM4
3/8	1-1/2"	9/16"	1886-6	PEM6
1/2	1-7/8"	7/8"	1886-8	PEM8



Breather Vents

- Offer vacuum relief or pressure equalization on gear boxes, oil tanks or reservoirs
- 40 micron screens prevent dirt and particles from entering open ports
- Male pipe thread for quick assembly or removal
- Maximum working pressure: 150 PSI
- Operating temperatures: 35° F to 300° F

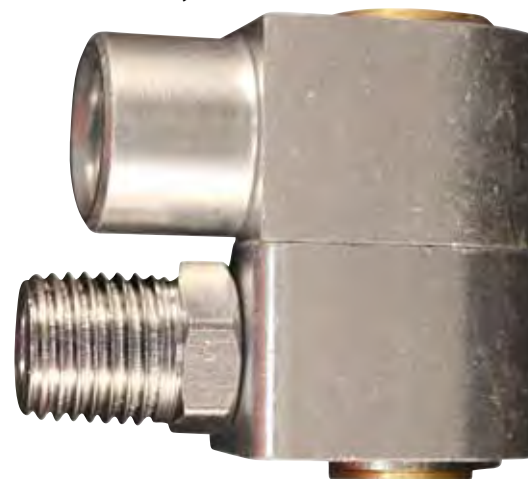
Size NPT	Hex	Milton Part No.	Part No.
1/8	7/16"	1088-2	MBV2
1/4	9/16"	1088-4	MBV4
3/8	11/16"	1088-6	MBV6
1/2	7/8"	1088-8	MBV8



Air Hose Swivel Connector

- Attach portable air tools to air hose
- 360° swivel in two places prevents hose kinking & out of the way
- Not for use with percussion tools

Female NPT	Male NPT	Part No.
1/4	1/4	AHSC4
3/8	3/8	AHSC6



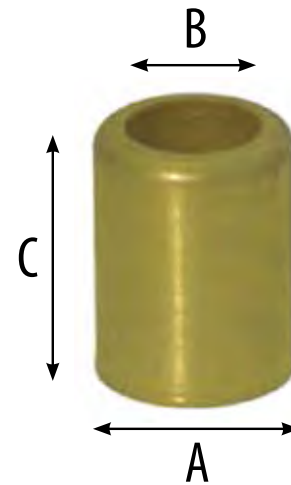


Hose Ferrules – Brass

- For use with low-pressure air hose.
- 300 PSI maximum air pressure.
- Brass construction.

Highlighted part numbers are new products for existing line.

Fits Hose O.D.	Ferrule I.D. (A)	Hole Size (B)	Length (C)	Part No.
1/2"	.525	.375	1"	HF1
9/16"	.562	.437	1"	HF2
19/32"	.593	.437	1"	HF3
5/8"	.625	.437	1"	HF4
21/32"	.656	.437	1"	HF5
11/16"	.687	.500	1"	HF6
23/32"	0.718	0.500	1"	HF7
3/4"	0.750	0.500	1"	HF8
7/8"	0.900	0.500	7/8"	HF9



12" (L) x 3" (W) x 2-3/4" (H)
10.25 lbs.

Crimp Tool

Part No: HFCRMP1

Use to repair or make custom low-pressure air hose assemblies. 1/4" single braid to 3/8" two braid hose.

Part No: HFCD2

Die Set for 1/2" ID and 7/8" OD Hose.



Tank Valves

- Attach portable air tools to air hose
- 360° swivel in two places prevents hose kinking & out of the way
- Not for use with percussion tools

Male NPT	O.A.L.	Part No.
1/8"	1"	TKVL2
1/4"	1-1/2"	TKVL4





Hybrid Shop Hose

- Milton Hybrid PVC Red Shop Air Hose
- Kink resistant
- Remains flexible down to -40° F
- 300 PSI. Max.
- Fitted with brass male NPT ends
- Bend restrictor provides strain relief for hose
- The most Flexible hose on the Market

Length	Male NPT	Hose I.D.	Part No.
25'	1/4"	1/4"	HSAH4RDX
50'	1/4"	1/4"	HSAH4RDV
100'	1/4"	1/4"	HSAH4RD1
25'	1/4"	3/8"	HSAH6RDX
50'	1/4"	3/8"	HSAH6RDV
100'	1/4"	3/8"	HSAH6RD1
50'	3/8"	1/2"	HSAH8RDV



EPDM 2-Braid Air Hose

- Kink resistant
- Remains flexible down to -40° F
- 250 PSI. Max.
- Fitted with brass male NPT ends
- Material: EPDM rubber tube & red cover, spiral synthetic yarn reinforcement -Limited oil resistance

Length	Male NPT	Hose I.D.	Part No.
25'	1/4"	1/4"	SAH4RDX
50'	1/4"	1/4"	SAH4RDV
25'	1/4"	3/8"	SAH6RDX
50'	1/4"	3/8"	SAH6RDV



Safety Super Volume Blo-Gun

Part No: BGSSV

Special venturi holes in extension tube greatly increase air volume while maintaining OSHA required noise level and nozzle pressure of 30 PSI.

Venturi holes allow air to escape if extension end is dead ended.

- Maximum working pressure: 150 PSI
- SCFM 23.6 @ 100 PSI
- 1/4" NPT, nozzle thread size: 1/2"-27
- Zinc alloy body
- Aluminum extension
- OSHA compliant





Air Chucks

- 150 PSI Max.
- Closed / Sealing type chucks – not for use with inflator gauges

Type	Milton Part No.	Female NPT	Part No.
Single Head W/ Grip	698	1/4	ACSG
Safety Kwik-Grip	S-696	1/4	ACKG
Single Head	699	1/4	ACSH
12-3/4" Dual Head Straight Foot	S-693-12	1/4	ACDHS12
Dual Head Straight Foot	693	1/4	ACDHS
12-1/4" Dual Head	S-690-12	1/4	ACDHA12
Dual Head	690	1/4	ACDHA



ACSG



ACKG



ACSH



ACDHS12



ACDHS

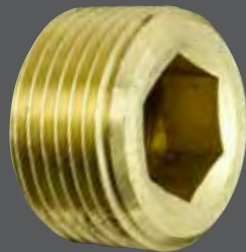


ACDHA12



ACDHA

Brass Pipe Fittings



Hex Socket Plug, Brass

MPT	Part No.
1/8	3153x2
1/4	3149-04
3/8	3149-06
1/2	3149-08
3/4	3149-12



Fluid Power

Hose Protectors

- Protect hoses against point of contact wear.
- Made of durable PVC, 4 mil thick, 4 in wide when fl t.
- Molded grooves are designed to fit with cable tie .
- Use on hydraulic hoses, fuel and oil line, brake systems, wiring harnesses and battery cables.
- Easily pliable to conform around various hose sizes.

Hose Protectors, PVC		
Length	Color	Part No.
4"	Black	HP4BK
	Orange	HP4OE
	Yellow	HP4YW
6"	Black	HP6BK
	Orange	HP6OE
	Yellow	HP6YW
8"	Black	HP8BK
	Orange	HP8OE
	Yellow	HP8YW
10"	Black	HP10OE
	Orange	HP10YW
	Yellow	HP10BK
12"	Black	HP12BK
	Orange	HP12OE
	Yellow	HP12YW



HP12OE



HP12YW



HP12BK





Marine Rated Battery Cable



- Special electro-tinned, copper strands for increase protection against corrosion.
- Stranding is extremely flexible for easy routing through marine applications and easier to solder than bare copper.
- Flame retardant, PVC insulation is highly resistant to water, oil, grease, gasoline, and other damaging solvents.
- Can be used on recreational vehicles, automotive & trucks.
- Voltage: Rated at 600 Volts Temperature: Rated at 105°C (221°F) dry and 75°C (167°F) wet.
- Meets UL 1426 specifications for compliance with ABYC, NMMA, DOT, & Coast Guard requirements.

AWG	Red 25'	Red 100'	Black 25'	Black 100'	Yellow 25'	Yellow 100'	White 25'	White 100'	Green 25'	Green 100'
8	MBC8RDX	MBC8RD1	MBC8BKX	MBC8BK1	MBC8YWX	MBC8YW1	MBC8WEX	MBC8WE1	MBC8GNX	MBC8GN1
6	MBC6RDX	MBC6RD1	MBC6BKX	MBC6BK1	MBC6YWX	MBC6YW1	MBC6WEX	MBC6WE1	MBC6GNX	MBC6GN1
4	MBC4RDX	MBC4RD1	MBC4BKX	MBC4BK1	MBC4YWX	MBC4YW1	-	-	-	-
2	MBC2RDX	MBC2RD1	MBC2BKX	MBC2BK1	MBC2YWX	MBC2YW1	-	-	-	-
1/0	MBC10RDX	MBC10RD1	MBC10BKX	MBC10BK1	MBC10YWX	MBC10YW1	-	-	-	-
2/0	MBC20RDX	MBC20RD1	MBC20BKX	MBC20BK1	MBC20YWX	MBC20YW1	-	-	-	-
3/0	MBC30RDX	MBC30RD1	MBC30BKX	MBC30BK1	MBC30YWX	MBC30YW1	-	-	-	-
4/0	MBC40RDX	MBC40RD1	MBC40BKX	MBC40BK1	MBC40YWX	MBC40YW1	-	-	-	-





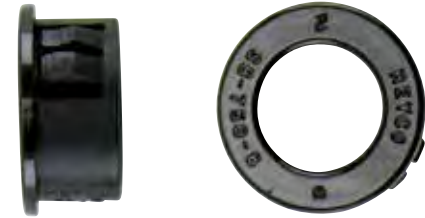
Wire Management

Fire Flex Fiberglass Slewing

- Silicone Jacketed
- Resists Heat, Abrasion & Moisture
- Temperature rated for constant 500°F
- Protect hoses, cables and wire harnesses from damage due to exposure to extreme heat, open flame, molten splash and welding sparks.
- Jacketed with a non-permeable, heavy silicone coating. Flexible enough to follow tight radius curves.
- Resists all automotive chemicals and solvents, and provides a substantial level of abrasion and puncture protection.
- FireFlex is completely non-conductive, will not melt, delaminate, become brittle or support combustion under normal conditions.
- Seal ends with Silicone Self-fusing tape. Refer to Tape section for more information.
- Popular with racing professionals.

I.D.	Roll Length	Part No.
1/4"	25	FFS4RDX
3/8"	25	FFS6RDX
1/2"	25	FFS8RDX
3/4"	10	FFS12RDZ
1"	10	FFS16RDZ
1-1/2"	10	FFS24RDZ
2"	10	FFS32RDZ





Plug Buttons Nickle Plated			
Hole Size	Head Dia.	Working Thickness	Part No.
1/4"	13/32"	.035 - .062	NPPB14
3/8"	1/2"	.037 - .078	NPPB38
1/2"	21/32"	.037 - .062	NPPB12
5/8"	13/16"	.062 - .078	NPPB58
3/4"	15/16"	.037 - .093	NPPB34
7/8"	1-1/16"	.031 - .093	NPPB78
1"	1-1/8"	.062 - .093	NPPB1
1-1/4"	1-7/16"	.062 - .093	NPPB114
1-1/2"	1-21/32"	.038 - .141	NPPB112

Snap Bushings 6/6 Black Nylon			
Hole Size	Head Dia.	Working Thickness	Part No.
1/4"	9/64"	1/16"	SNB14C
5/16"	3/16"	1/16"	SNB516E
3/8"	3/16"	1/8"	SNB38E
3/8"	1/4"	1/8"	SNB38G
1/2"	1/4"	1/8"	SNB12G
1/2"	5/16"	1/8"	SNB12H
1/2"	3/8"	1/8"	SNB12I
3/4"	3/8"	1/8"	SNB34I
3/4"	1/2"	1/8"	SNB34K
3/4"	5/8"	1/8"	SNB34M
7/8"	1/2"	1/8"	SNB78K
7/8"	5/8"	1/8"	SNB78M
1"	3/4"	1/8"	SNB1N
1-1/4"	7/8"	1/8"	SNB114O
1-1/2"	1-1/4"	1/8"	SNB112R



Hole Plugs Liquid Tight, Black Neoprene			
Hole Dia.	Head Dia.	Panel Thickness	Part No.
1/2"	0.91	1/8"	LTHP12
3/4"	1.15	1/8"	LTHP34
7/8"	1.23	1/8"	LTHP78
1"	1.41	1/8"	LTHP1
1-3/8"	1.78	1/8"	LTHP138





Heat Shrink Tubing

Fabric Heat Shrink Tubing

- A unique mixture of polyolefin and polyester yarns, is the ideal way to form the only shrinkable fabric of its kind.
- The woven construction makes this product extremely flexible and resistant to trapping water, heat and humidity.
- Provides outstanding abrasion, chafing and cut-through protection, even at high temperatures.
- Temperature range: -40° to 275° F, Shrink ratio 2:1
- Does not have adhesive inner liner. If needed, apply dual wall heat shrink fibers.

I.D.		Black 25' Put-Up 2 to 1 Ratio Part No.
Expanded (unshrunk)	Recovered (shrunk)	
1/2"	1/4"	TSF8BKX
3/4"	3/8"	TSF12BKX
1-3/16"	19/32"	TSF19BKX
1-1/2"	3/4"	TSF24BKX
2"	1"	TSF32BKX

Great for Abrasion Protection



High Ratio 6 to 1 Dual Wall Heat Shrink Tubing

- High ratio shrinkage 6 to 1
- Dual wall heat shrink – adhesive lined
- 6 inch long pieces, black color

I.D.		Part No.
Expanded (unshrunk)	Recovered (shrunk)	
1-1/4"	13/64"	TS621HR20BK
2"	21/64"	TS621HR32BK
2-1/2"	13/32"	TS621HR40BK
3"	1/2"	TS621HR48BK

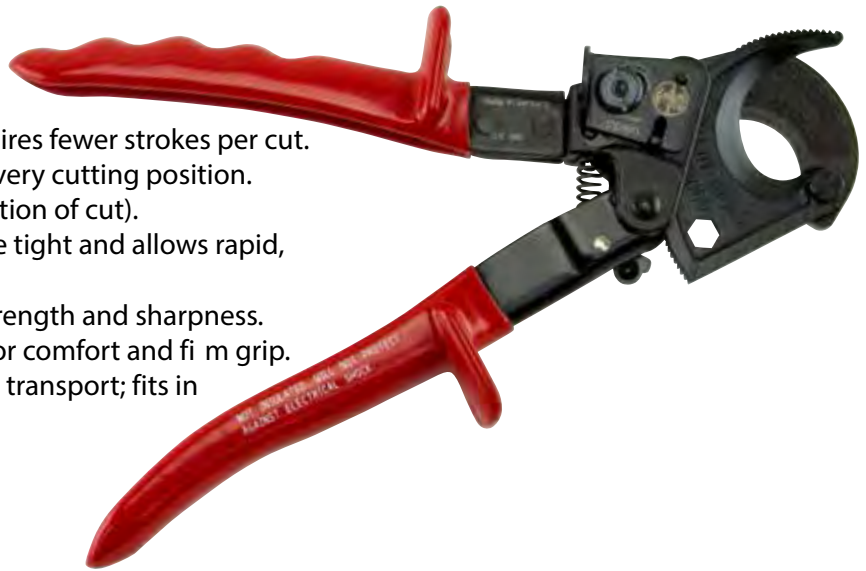




Ratchet Cable Cutter

Part No: CCR8400

- 400 MCM capacity.
- Patented two-step ratchet mechanism requires fewer strokes per cut.
- Quick release lever opens blades easily in every cutting position. (Allows removal of the cable before completion of cut).
- Precision ratcheting mechanism holds cable tight and allows rapid, straight cuts with minimum effort.
- Hardened steel cutting blades for lasting strength and sharpness.
- Plastic covered handles with hand guards for comfort and firm grip.
- Locking lever keeps handles closed for easy transport; fits in toolbox or bag.



Big Daddy Rivet Tool

Part No: M39031

- Installs pull-rivets from 1/8" through 1/4" diameter in all rivet alloys.
- Comes with noise pieces for 5/32", 3/16" and 1/4" which are stored in the body of the tool.
- Extra-long handles provide excellent leverage and a double-gear reduction system makes setting rivets easier and faster
- 21" long, 3.75 lbs.

Drive Type Grease Fitting Installation Tools

These grease fitting drive tools simplify the installation process for drive type grease fittings into untapped holes. To use, insert the drive fitting tool over the fitting and tap the opposite end with a hammer.

Drive Fitting Tools	
Type	Part No.
Straight	GFDTS
Angled	GFDTA



GFDTS



GFDTA



Flap Discs

Flap Discs – Type 27 with Fiberglass Backing

- General Purpose Specific tion – however, contains larger and more flaps than the ompetition providing longer life.
- Premium zirconium grain on cotton backing which provides long life and high stock removal.
- Will not contaminate stainless steel, Resists loading on aluminum.
- For use on ferrous & non-ferrous metals including stainless steel, titanium, aluminum, copper & brass.

Diameter (in)	Max RPM	Grade / Grit	Arbor (in)	Part No.
4-1/2	13,300	36	5/8-11 threaded hub	UA71215
		40		UA71216
		60		UA71218
		80		UA71219
		120		UA71221



High Density Flap Discs – Type 27 with Fiberglass Backing

- Excellent on irregular surfaces, allows the use of light pressure, and provides aggressive cutting action
- Premium zirconium grain on a cotton backing providing a softer-acting and faster cutting disc
- For use on ferrous & non-ferrous metals including stainless steel, titanium, aluminum, copper & brass

Diameter (in)	Max RPM	Grade / Grit	Arbor (in)	Part No.
4-1/2	13,300	40	5/8-11 threaded hub	UA76316
		60		UA76318
		80		UA76319
		120		UA76321
	8,500	40	7/8	UA76206
		60		UA76208
		80		UA76209
		120		UA76211
7	13,300	40	5/8-11 threaded hub	UA76356
		60		UA76358
		80		UA76359
		120		UA76361
	8,500	40	7/8	UA76246
		60		UA76248
		80		UA76249
		120		UA76251



UA76209



UA76358



Sand Light™ Flap Discs

- Non-woven material – layered flaps create a thick, cushioned design which provides a nice finish
- Designed for surface preparation, cleaning, and finishing applications.
- For use on ferrous & non-ferrous metals including stainless steel.

Dia . (in)	Max RPM	Grade / Grit	Arbor (in)	Part No.
4-1/2	13,300	Coarse	7/8	UA71980
		Medium		UA71982
		Very Fine		UA71984
5	12,200	Coarse		UA71990
		Medium		UA71992
		Very Fine		UA71994



UA71982



UA71990

Waterproof Silicon Carbide 6x9 Sheets

- 5 sheets per package

Grade / Grit	Description	Part No.
220	Very Fine	UA10028
320	Extra Fine	UA10031
400	Super Fine	UA10032
600	Ultra-Fine	UA10034
2-SF & EF, 1 VF	Assorted	UA10036



Hand Sanding Block

Part No: UA16000





Premium Flap Wheels with Grinding Aid

- For use on ferrous & non-ferrous metals including stainless steel & titanium.
- Premium aluminum oxide grain with grinding aid.
- Excellent for reducing heat build-up on heat sensitive materials.
- Excellent for cleaning, deburring, polishing, blending.

Diameter (in)	Width (in)	Grade / Grit	Arbor (in)	Part No.
2	1	60	1/4 Stem	UA74050
		80		UA74051
		120		UA74052
2-1/2		60		UA74060
		80		UA74061
		120		UA74062
3		60		UA74070
		80		UA74071
		120		UA74072



UA74062

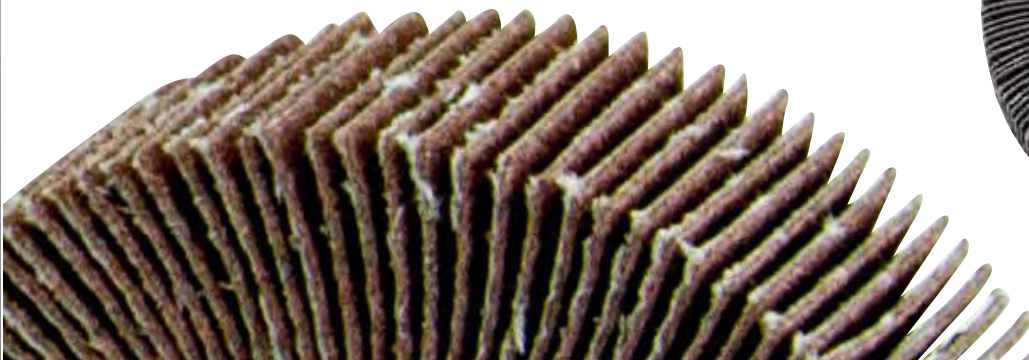
Premium Threaded Flap Wheels with Grinding Aid

- For use on standard 4-1/2" and 5" angle grinders
- Applies a linear scratch pattern, instead of a swirl narrow profile is excellent for cleaning weld beads
- Suitable for surface preparation, paint and rust removal, cleaning, and finishing
- Increases the versatility of your angle grinder
- For use on ferrous & non-ferrous metals including stainless steel & titanium

Diameter (in)	Max RPM	Width (in)	Grade / Grit	Arbor (in)	Part No.
4-1/2	13,300	3/4	40	5/8-11	UA72130
			60		UA72132
			80		UA72133
			120		UA72135
5	12,200		40		UA72140
			60		UA72142
			80		UA72143
			120		UA72145



UA72130





Spiral Bands

- Premium Aluminum Oxide.
- Excellent for removing parting lines, imperfections, and burrs on all surfaces.
- Great in curved, corner, contoured, and hard to reach areas.
- For use on ferrous & non-ferrous metals including stainless steel.

Diameter (in)	Width (in)	Grade / Grit	Part No.
1/2	1/2	60	UA42001
1/2	1/2	80	UA42002
1/2	1/2	120	UA42003
1/2	1	60	UA42006
1/2	1	80	UA42007
1/2	1	120	UA42008
1/2	1	60	UA42011
1/2	1	80	UA42012
1/2	1	120	UA42013
3/4	1	36	UA42016
3/4	1	60	UA42017
3/4	1	80	UA42018
3/4	1	120	UA42019
3/4	1-1/2	60	UA42022
3/4	1-1/2	80	UA42023
3/4	1-1/2	120	UA42024
1	1	36	UA42027
1	1	60	UA42028
1	1	80	UA42029
1	1	120	UA42030
1-1/2	1	36	UA42033
1-1/2	1	60	UA42034
1-1/2	1	80	UA42035
1-1/2	1	120	UA42036
1-1/2	1-1/2	36	UA42039
1-1/2	1-1/2	60	UA42040
1-1/2	1-1/2	80	UA42041
1-1/2	1-1/2	120	UA42042
2	2	36	UA42045
2	2	60	UA42046
2	2	80	UA42047
2	2	120	UA42048
3	3	36	UA42051
3	3	60	UA42052
3	3	80	UA42053
3	3	120	UA42054



UA42007

Spiral Band Drums

- 1/4" Stem



UA95130

Diameter (in)	Width (in)	Max RPM	Part No.
1/2	1/2	30,000	UA95121
	1	15,000	UA95122
	1-1/2	12,000	UA95123
3/4	1	19,000	UA95126
	1-1/2	10,000	UA95127
1	1	18,000	UA95130
1-1/2	1	14,000	UA95133
	1-1/2	10,000	UA95134
2	2	6,000	UA95137
3	3	3,000	UA95140

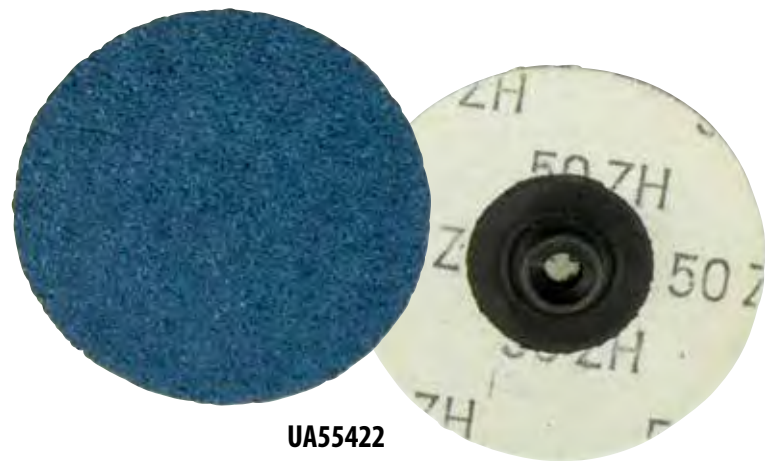


SAIT-LOK™

High Performance Abrasive Discs – SAIT-LOK™

- High performance Zirconium grain.
- Triple laminated construction for severe pressure applications where conventional laminated discs have too much fl x.
- Excellent for edge grinding, deburring, and weld preparation and removal.
- Extremely fast stock removal and long life.
- For use on ferrous & non-ferrous metals including stainless steel & high tensile alloys.

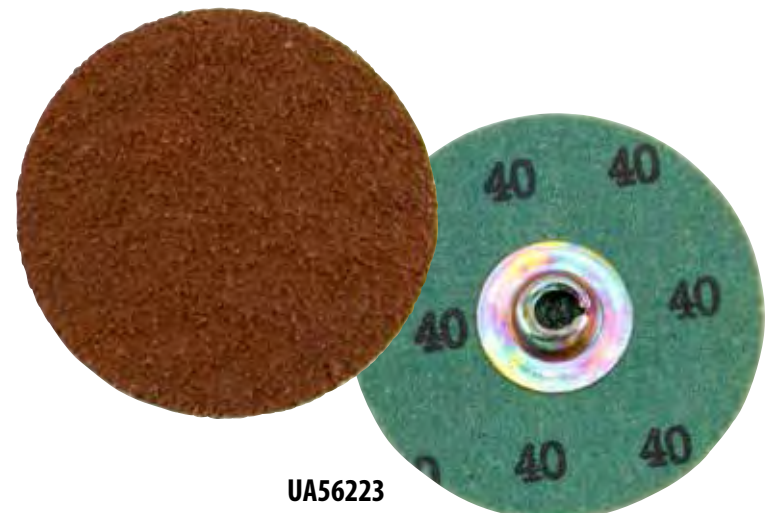
Diameter (in)	Grade / Grit	Part No.
2	24	UA55420
	36	UA55421
	50	UA55422
	60	UA55423
	80	UA55424
3	24	UA55430
	36	UA55431
	50	UA55432
	60	UA55433
	80	UA55434



Premium Abrasive Discs – SAIT-LOK™

- Premium zirconium grain with grinding aid.
- Cooling agents for cool cutting and long life.
- Very fast stock removal, no discoloration.
- Easy disc changes by twisting to unlock backing pad.
- For use on ferrous & non-ferrous metals including stainless steel, titanium & high tensile steel.

Diameter (in)	Grade / Grit	Part No.
1-1/2	36	UA56215
	40	UA56216
	50	UA56217
	60	UA56218
	80	UA56219
2	36	UA56222
	40	UA56223
	50	UA56224
	60	UA56225
	80	UA56226
3	36	UA56229
	40	UA56230
	50	UA56231
	60	UA56232
	80	UA56233





Non-Woven Discs – SAIT-LOK™

Medium

- General purpose.
- Excellent for blending surface imperfections, coated abrasive burrs.

Very Fine

- Excellent for blending surface imperfections, final finish, and preparation prior to coating.
- Both for use on ferrous & non-ferrous metals including stainless steel & aluminum.

Diameter (in)	Grade / Grit	Part No.
2	Medium	UA77672
	Very Fine	UA77675
3	Medium	UA77682
	Very Fine	UA77685



Backing Pad – SAIT-LOK™

- Disc twists into metal threaded center of backing pad for fast and easy disc changes.
- Hard density for aggressive cutting action.
- 1/4" shank.

Size	Hardness	Max RPM	Part No.
1"	Medium	40,000	UA95165
1-1/2"	Medium	25,000	UA95166
	Hard	30,000	UA95266
2"	Medium	25,000	UA95167
	Hard	30,000	UA95267
3"	Medium	20,000	UA95168
	Hard	20,000	UA95268



Non-Woven Abrasive Hand Pads

- 6" x 9" sheets.
- 20 per box.

Color	Use	Part No.
Black	Blending / Finishing / Paint removal / Stainless Steel	UA77446
Green	General cleaning / Stripping	UA77496





Test Products & Clips

Coiled Test Leads with Clips

- 24" 18 AWG Coiled Cord.
- Nickel-plated steel alligator clips and insulator boot on both ends.

Color	Industry No.	Part No.
Black	BU3030C240	ATM150
Red	BU3030C242	ATM151



Right Angle Banana Plug Leads

- 60" Shrouded Right Angle Banana Plug—Both Ends.
- 18 AWG Silicone Insulation.
- 100V, 20 Amp, IEC compliant, UL listed.
- Insulated banana plugs have exclusive free rotation, nine-leaf beryllium copper, nickel-plated cage springs.

Color	Industry No.	Part No.
Black	BU6162M600	ATM148
Red	BU6162M602	ATM149



Right Angle Banana Plug Leads with Safety Test Probe

- 39" Shrouded Right Angle Banana Plug and Safety Test Probe.
- Stainless steel tip with #8-32 thread.
- 18 AWG Silicone Insulation. 100V, 20 Amp, IEC compliant, UL listed.
- Insulated banana plugs have exclusive free rotation, nine-leaf beryllium copper, nickel-plated cage springs.

Color	Industry No.	Part No.
Black	BU4062M390	ATM146
Red	BU4062M392	ATM147

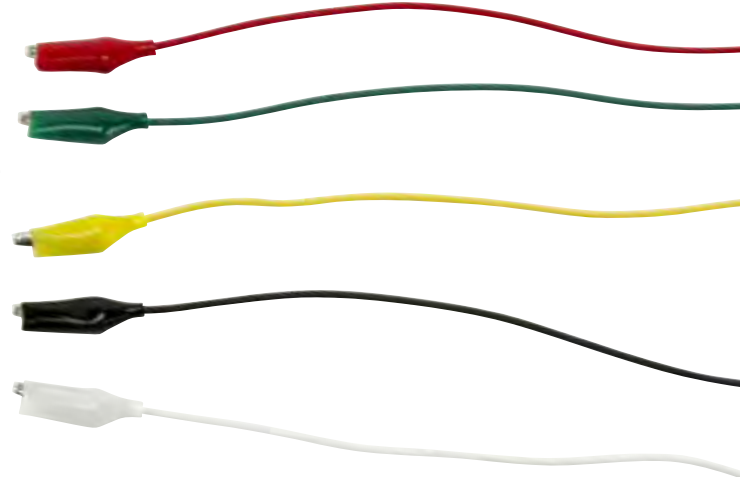




Insulated Alligator Lead Sets

- Nickel-plated steel alligator clips with insulators
- 300 V
- Sets include two each Black, Red, Yellow, Green and White

AMPS	Type	Length	Industry No.	Part No.
5	Mini	18"	BU00285	ATM152
7	Regular	12"	BU00287	ATM153



Ultra Tech Test Prods

- 6-1/4" Stainless Steel tipped Test Prods.
- Compatible with all shrouded, unshrouded & retractable banana plugs.
- 1000V, 20 Amp, IEC 1010 Compliant, UL Listed.

Color	Industry No.	Part No.
Black	BU261300	ATM136
Red	BU261302	ATM137



Fork Terminal to Banana Jack

- #6 Stud Fork
- Nickel Plated Brass Spade.
- 1-11/16 long,
- 30Vac, 60Vdc, 36 Amp

Color	Industry No.	Part No.
Black	BU302110	ATM138
Red	BU302112	ATM139
Yellow	BU302114	ATM140
Green	BU302115	ATM141
Blue	BU302116	ATM142
White	BU302119	ATM143



Crocodile Clips					
AMP Rating	Material	Jaw Opening (in)	Clip Part No.	Insulating Boot Part No.	
				Red	Black
Black	Zinc Plated Steel	5/16	AC85	AC87RD	AC87BK
White	Solid Copper	5/16	AC85C	AC87RD	AC87BK



AC85



AC85C




AC87BK

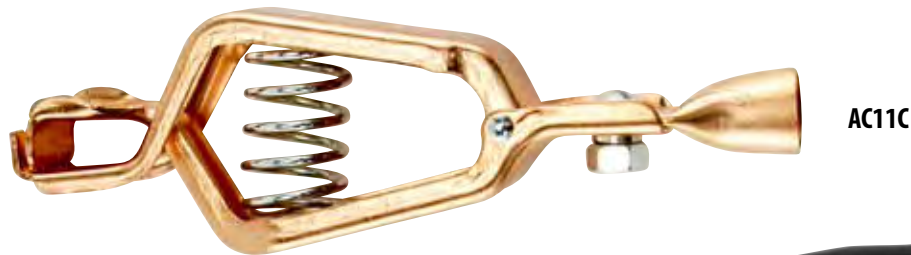
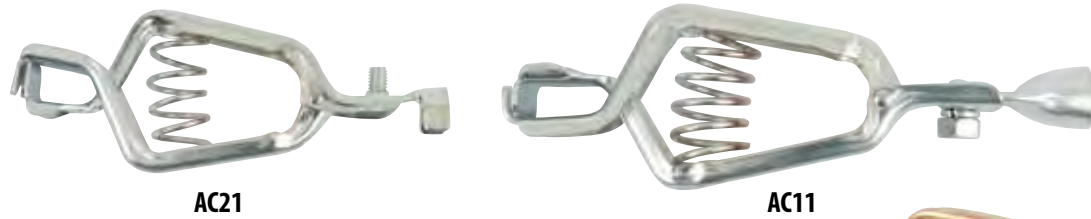
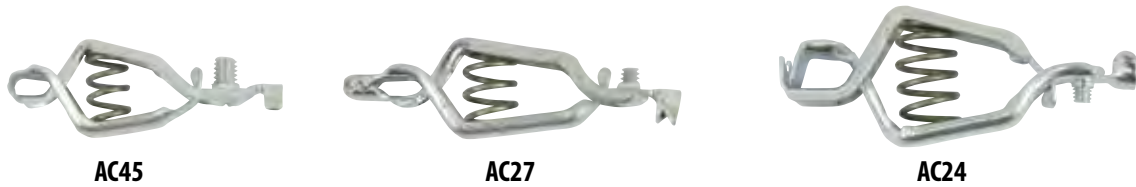


AC87RD




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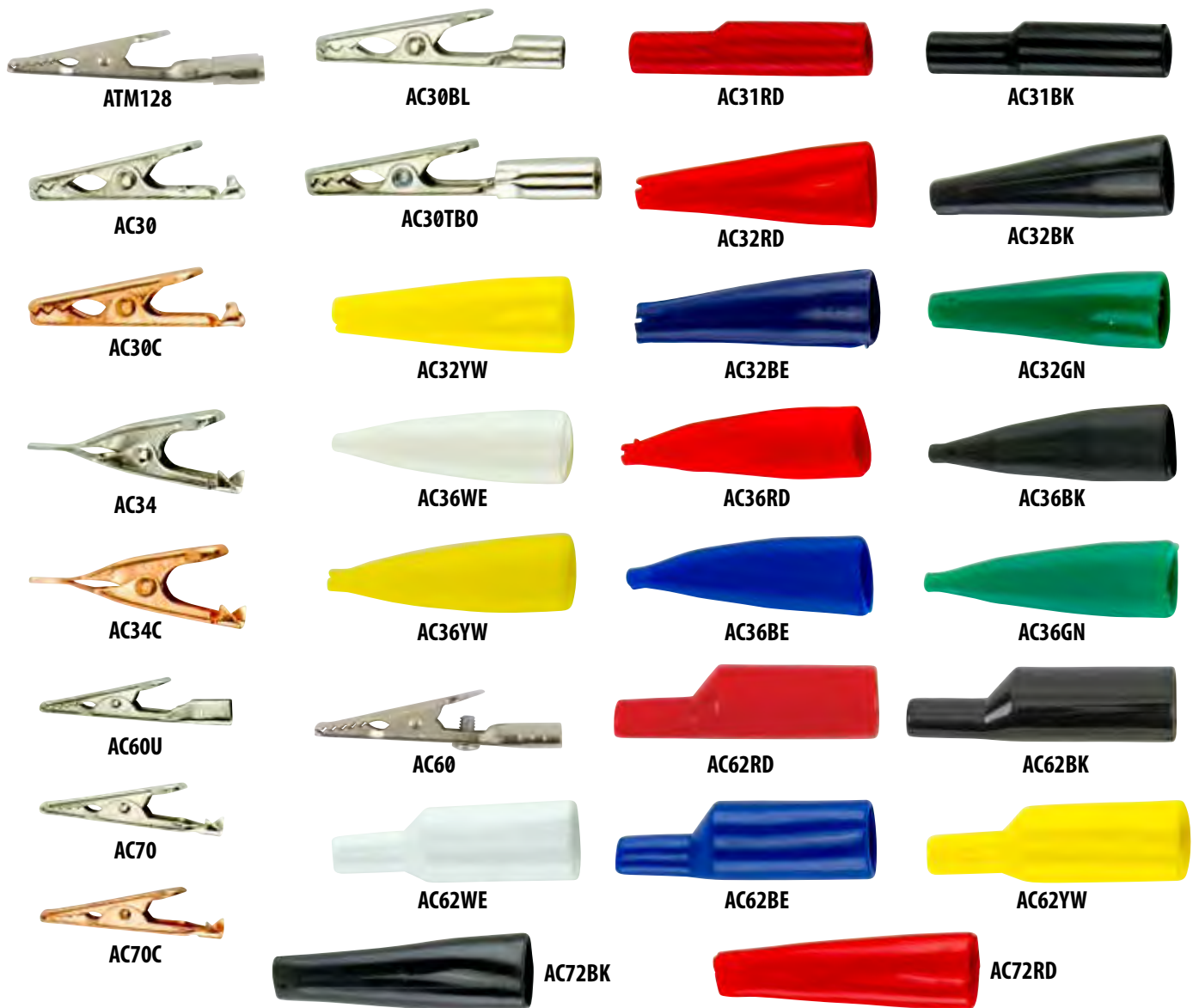
Heavy Duty Test & Battery Clips						
AMP Rating	Length (in)	Material	Jaw Opening (in)	Clip Part No.	Insulating Boot Part No.	
					Red	Black
5	1-17/32	Zinc Plated Steel	5/16	AC45	AC47RD	AC47BK
10	1-17/32	Solid Copper	5/16	AC45C	AC47RD	AC47BK
20	2-7/16	Zinc Plated Steel	5/8	AC27	AC29RD	AC29BK
40	2-7/16	Solid Copper	5/8	AC27C	AC29RD	AC29BK
25	2-7/8	Zinc Plated Steel	3/4	AC24	AC26RD	AC26BK
50	4	Zinc Plated Steel	1-1/16	AC21	AC23RD	AC23BK
100	4	Solid Copper	1-1/16	AC21C	AC23RD	AC23BK
100	6	Zinc Plated Steel	1-5/8	AC11	AC13RD	AC13BK
200	6	Solid Copper	1-5/8	AC11C	AC13RD	AC13BK





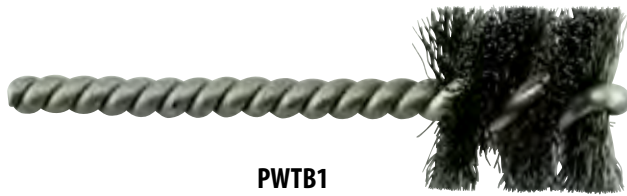
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AMP Rating	Length (in)	Material	Jaw Opening	Description	Clip Part No.	Insulating Boot Part No.					
						Red	Black	Yellow	Blue	Green	White
5	1-3/32	Nickle Plated Steel	7/32"	Micro	AC34	AC36RD	AC36BK	AC36YW	AC36BE	AC36GN	AC36WE
5	1-3/32	Solid Copper	7/32"	Micro	AC34C	AC36RD	AC36BK	AC36YW	AC36BE	AC36GN	AC36WE
5	1-1/4	Zinc Plated Steel	3/16"	Miniature with barrel	AC30BL	AC31RD	AC31BK	-	-	-	-
5	1-3/32	Zinc Plated Steel	3/16"	Miniature	AC30	AC32RD	AC32BK	AC32YW	AC32BE	AC32GN	-
5	1-3/32	Solid Copper	3/16"	Miniature	AC30C	AC32RD	AC32BK	AC32YW	AC32BE	AC32GN	-
5	1-1/2	Zinc Plated Steel	3/16"	Miniature w/ #6-32 barrel	AC30TBO	AC31RD	AC31BK	-	-	-	-
10	1-31/32	Zinc Plated Steel	5/16"	Barrel for Banna plug	AC60	AC62RD	AC62BK	AC62YW	AC62BE	AC62GN	AC62WE
10	2-1/8	Zinc Plated Steel	5/16"	#8-32 threaded barrel	ATM128	AC62RD	AC62BK	AC62YW	AC62BE	AC62GN	AC62WE
10	1-31/32	Nickle Plated Steel	5/16"	U shaped barrel	AC60U	AC62RD	AC62BK	AC62YW	AC62BE	AC62GN	AC62WE
5	1-11/16	Nickle Plated Steel	5/16"	Open barrel	AC70	AC72RD	AC72BK	-	-	-	-
10	1-11/16	Solid Copper	5/16"	Open barrel	AC70C	AC72RD	AC72BK	-	-	-	-

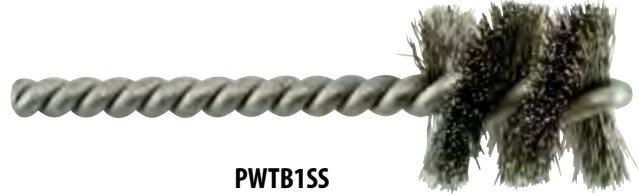




Shop Supplies



PWTB1



PWTB1SS

Power Wire Tube Brush Steel 1" Length, 3-1/2" OAL			
Dia.	Wire Size	Stem Dia.	Part No.
1/4"	0.004	1/8"	PWTB14
3/8"	0.004	1/8"	PWTB38
1/2"	0.005	3/16"	PWTB12
3/4"	0.006	7/32"	PWTB34
1"	0.008	1/4"	PWTB1

Power Wire Tube Brush Stainless Steel 1" Length, 3-1/2" OAL			
Dia.	Wire Size	Stem Dia.	Part No.
1/4"	0.004	1/8"	PWTB14SS
3/8"	0.004	1/8"	PWTB38SS
1/2"	0.005	3/16"	PWTB12SS
3/4"	0.006	7/32"	PWTB34SS
1"	0.008	1/4"	PWTB1SS



BRS10



BRS20



BRS21



BRS24



BRS25



BRS26



BRS27

Highlighted part numbers are new products for existing line.

Scratch Brush						
Wire	Handle	Wire Size	Trim Length	Block Size	Rows	Part No.
Carbon Steel	Wood	0.012	1-3/16"	10" x 1-1/8"	4 x 16	BRS10
Stainless Steel	Wood	0.006	1/2"	7-1/2" x 1/2"	3 x 7	BRS20
Brass	Wood	0.006	1/2"	7-1/2" x 1/2"	3 x 7	BRS21
Black Nylon	Wood	0.012	1/2"	7-1/2" x 1/2"	3 x 7	BRS22
Stainless Steel	Wood	0.012	1-3/16"	10" x 1-1/8"	4 x 16	BRS23
Stainless Steel	Plastic	0.006	1/2"	7-1/2" x 1/2"	3 x 7	BRS24
Stainless Steel	Plastic	0.012	1-3/16"	11"	4 x 16	BRS25
Brass	Plastic	0.012	1-1/4"	11"	4 x 16	BRS26
Black Nylon	Plastic	0.01	1/2"	6-1/2" x 1/2"	4 x 15	BRS27



3-IN-ONE®



CHM0020



CHM0021



CHM0022

Multi-Purpose Oil - 3-IN-ONE®

Since 1894, 3-IN-ONE's versatile multi-purpose drip oil has been a trusted tool used by professional to lubricate moving parts, penetrate rust, clean and protect tools, and much more.

- Versatile multi-purpose drip oil delivers precise application, drop by drop
- Lubricate moving parts, penetrate rust, clean and protect tools, and much more.

Size	Part No.
3 oz	CHM0020
8 oz	CHM0021
4 oz w. telescoping spout	CHM0022



Lock Dry Lube - 3-IN-ONE®

Part No: CHM0023

Use 3-IN-ONE Lock Dry Lube to loosen, lubricate and protect home and commercial locks.

- Clear, quick-drying, lock lubricant to loosen and protect all types of stuck locks
- Small size fits easily i to small spaces - 2.5 oz. net weight
- Aerosol formula penetrates quickly and deeply to loosen stuck locks. Use attachable straw for loosening and without straw for protecting/refurbishing entire lock
- Leaves long-lasting, corrosion protection fil
- Clear, Quick-Dry Formula, Won't Attract Dirt
- Safe to use on metal, wood and most plastics- except clear polycarbonate and polystyrene

Liquid Silicone - 3-IN-ONE®

Part No: CHM0024

Fast-drying, no-mess lubricant that works in extreme temperatures.

- Lubricates, waterproofs and protects in temperatures between -100°F to 500°F
- Spout for easy precision application
- Dries quickly
- Leaves no messy residue
- 50-state VOC compliant
- Safely works on multiple surfaces, including plastic, metal and rubber
- 4 oz. net weight



Liquid Penetrant - 3-IN-ONE®

Part No: CHM0025

Fast-Acting Penetrant quickly loosens stuck parts and prevents rust.

- Penetrates fast
- Prevents rust
- Marksman spout for easy precision application
- Great for use on tools, hinges, nuts and bolts
- Safe for use on plastics, rubber and metal
- 50-state VOC compliant
- 4 oz. net weight





Chemicals



Dry Lube - 3-IN-ONE®

Part No: CHM0026

3-IN-ONE Dry Lube reduces wear and friction on your tools and equipment. Plus, it protects metal parts to keep your tools and equipment in better working order.

- Quick-drying formula -100% Dry to Touch
- Reduce wear and friction on tools and equipment
- Does not attract dirt and dust
- Spout for easy precision application
- Ideal for blades and bits, rollers and more
- 50-state VOC compliant
- 4 oz. net weight



PTFE Liquid Lube - 3-IN-ONE®

Part No: CHM0027

PTFE Lubricant extends the life for all types of tools and equipment. It is specially designed for heavy loads and for use in high temperatures.

- 100% PTFE Lubricant
- Protects and extends tool life
- Works in temperatures between -50°F to 500°F
- Excellent for heavy loads
- Spout for each precision application
- Works on axles, chains, hinges and more
- 50-state VOC compliant
- 4 oz. net weight



Pneumatic Tool Oil - 3-IN-ONE®

Part No: CHM0028

Extend the life of your tools.

- Quickly dissolves gum and sludge, and provides rust prevention
- Removes calcium build-up and moisture for improved tool performance
- Waterproof formula minimizes rust formation under extreme conditions
- Spout for easy precision application
- 50-state VOC compliant
- 4 oz. net weight



Lava® Bar Soap

Part No: CHM0029

- The original heavy-duty hand cleaner.
- Uses the power of pumice to cut through even the toughest grease and grime.
- Pumice is used in combination with other cleaning and moisturizing agents to clean and soften even the dirtiest of hands.
- 5.75 oz. bar.





Dow Corning 4 Electrical Insulating Compound

MADE IN USA

Part No: CHM0009

- Grease like silicone, electrical insulating compound.
- Make moisture resistant seals for electrical, automotive, aircraft, and marine assemblies.
- Also used to lubricate and seal O-rings, switches, door seals, cable connectors, and battery terminals.
- Odorless, high dielectric strength, good chemical stability and thermal oxidation.
- Retains grease like consistency from -40° to 392° F, NSF 51 & 61, SAE AS8660
- 5.3 OZ (150 g) Tube



ThermaPlex® CS Moly Bearing Grease

MADE IN USA

Part No: CHG11

- Premium performance, calcium sulfonate grease
- Enhanced with molybdenum disulfid
- NLGI No. 2
- Reduces wear from vibration
- Prolongs bearing life
- Very high load carrying capacity
- Superior water resistance
- Excellent rust and corrosion protection - Perfect score on the EMCOR rust test
- Timken "OK" Load: 65 lbs.
- Wide operating temperature range: 0°F to 425°F (-18°C to 218°C)
- Multi-application bearing grease
- Excellent adhesive and cohesive properties
- Extends re-lubrication intervals for bearings
- Excellent oxidation stability
- Color: Gray/Black





Chemicals

Loctite®



Loctite® 567™ PST® Hi-Temperature Thread Sealant

- General purpose instant sealer for tapered and straight/tapered fitting .
- Excellent solvent resistance.
- Can prevent galling.
- Withstand temperatures up to 400° F (204°C).
- Excellent for high pressure applications: locks and seals tapered metal, pipe threads and fitting . Ideal for stainless steel, aluminum, galvanized metal and other inert metals.
- Recommended for all coarse metal threads where slow cure is required to prolong timeframe for adjusting valves and fitting . Cure time 24 hours.

Size	Part No.
6 ml	CHM0031
50 ml	CHM0032



Loctite® 542™ Thread Sealant

Part No: CHM0033

- Brown thread sealant is compatible with metal materials with a 72 hour cure time.
- Delivers great performance with a shear strength of 940 psi and tensile strength of 130 psi.
- Minimum to maximum operating temperatures are -65 F to +300 F.
- 50 ml size.



Loctite® 5452™ Thread Sealant

Part No: CHM0033

- Purple thread sealant with a 72 hour cure time.
- Delivers great performance with a shear strength of 246 psi and tensile strength of 31 psi.
- Minimum to maximum operating temperatures are -65 F to +300 F.



Size	Part No.
50 ml	CHM0034
250 ml	CHM0034L



Ear Muffs

- Modern, attractive low-profile, lightweight design.
- Electrically-insulated (dielectric) wire headband.
- Twin headband design reduces heat buildup and offers outstanding balance and comfort for prolonged use.
- New ear cushion foam technology for an effective acoustic seal and reliable protection.
- Soft wide cushions maintain a comfortable pressure around the ears.

Highest NRR in the market



Part No. EPM5A
NRR: 31 dB

Compact; Very thin & lightweight



Part No. EPM4A
NRR: 27 dB

NRR: Noise reduction rating.
The higher the decibel (dB) the more effective in decreasing sound exposure.

Headgear with Faceshield

Part No. EPH8A

- High-strength thermoplastic provide durable impact resistance
- Adjustable ratchet suspension with five position crown strap
- Meets the requirements of ANSI Z87.1-2003





Vehicle Lighting & Wiring

Relays

Universal, heavy-duty relays guard against overloads and arcing.

Highlighted part numbers are new products for existing line.

AMPS	Volts	Term #	Terminal Size	Protection	Bracket	Type	Part No.
20	12V	4	2.8 mm	Resistor	No	Micro	TL199MP
20	12V	5	2.8 mm	Resistor	No	Micro	TL195MP
25	12V	5	(2) 1/4", (3) 3/16"	Resistor	No	Micro	TL198
30	12V	4	1/4"	No	Yes	Mini	TLP52040
30	12V	5	1/4"	No	Yes	Mini	TL192D
35	12V	5	2.8 mm	Resistor	No	Micro	TL196MP
40	12V	4	1/4"	No	Yes	Mini	TL201
40	12V	4	1/4"	Diode	Yes	Mini	TL202D
40	12V	4	1/4"	Resistor	Yes	Mini	TL203R
40	12V	4	1/4"	Diode	No	Mini	TL204D
40	12V	5	1/4"	Diode	No	Mini	TL190
40	12V	5	1/4"	No	Yes	Mini	TL191
40	12V	5	1/4"	Diode	Yes	Mini	TL193D
40	12V	5 (Sealed)	1/4"	Diode	Yes	Mini	TL194DS
70	12V	4	(2) 1/4", (2) 3/8"	Resistor	yes	Maxi	TL197HP
70	12V	5	(3) 1/4", (2) 3/8"	Resistor	No	Maxi	TLP200HP
20	24V	5	1/4"	No	No	Mini	TL1924
50	24V	4	(2) 1/4", (2) Screw	No	Yes	Power	TL1925
75	24V	4	(2) 1/4", (2) Screw	No	Yes	Power	TL1926



TL195MP



TL198



TL196MP



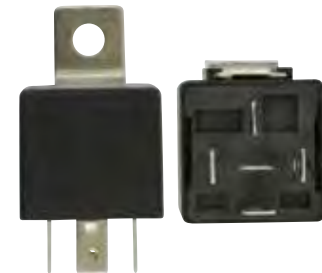
TL190



TLP52040



TL192D



TL191



TL193D



TL194DS



TL1924



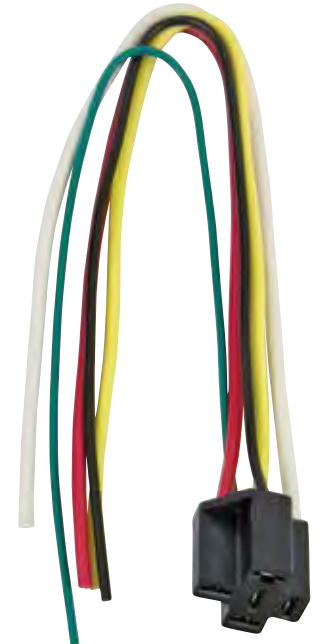
1-800-944-5463 | www.hi-line.com

Highlighted part numbers are new products for existing line.

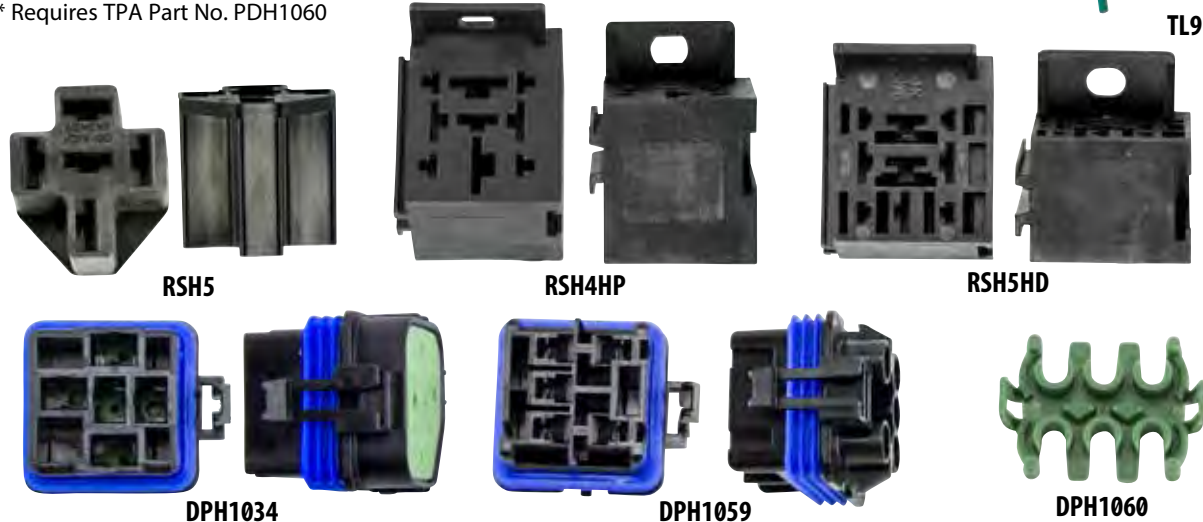
Relay Housings					
AMPS	Term #	Contact Width	Bracket	Part No.	Contact Part No.
70	4 or 5	2 ea. 1/4"	Yes	RSH4HP	1/4" AP422822 (18-14 AWG)
		2 Ea. 3/8"			3/8" AP2807562 (12-10 AWG)
20-40	5	2 ea. 1/4"	Yes	RSH5M	1/4" AP422822 (18-14 AWG)
		3 Ea. 3/16"			3/16" AP2809194 (20-16 AWG)
20-40	4 or 5	1/4"	Yes	RSH5HD	AP422822 (18-14 AWG)
20-40	4 or 5	1/4"	No	RSH5	AP422822 (18-14 AWG)
20-40	5 (Sealed)	1/4"	No	DPH1034	91614FM6302 (16-14 AWG) 912FM6302 (12 AWG)
20-40	5 (Sealed)	2.8 MM	No	DPH1059**	DPH1053 (18-16 AWG) DPH1052 (14-12 AWG)
20-40	5	1/4"	No	TL9185*	Included

* This is a pigtail with five 12", 12 AWG wires.

** Requires TPA Part No. PDH1060



TL9185



RSH5

RSH4HP

RSH5HD

DPH1034

DPH1059

DPH1060

Oblong Rocker Switches

- 12 Volt
- .250 Kwik-on tabs
- On/Off
- 1/2" mounting hole

Rocker Switches			
Color	Feature	Amps	Part No.
Red	Illuminated	15	TLPPMV5580PT
Green	Illuminated	15	TLPPMV5583PT
Red	LED Illuminated	25	TLPPMV5584PT
Green	LED Illuminated	25	TLPPMV5587PT

Switches



TLPPMV5580PT

TLPPMV5584PT

Quality matters and at Hi-Line we understand that. We carry the highest quality products, and our local Territory Managers are trained with your needs in mind. They are highly skilled as inventory management specialists.

We will make sure you have the repair parts you require in the correct quantities. All items will be put away, stored neatly and logically for quick retrieval. We understand the importance of keeping the line running.

Try us out. Learn what it is like to truly have your inventory managed.

When QUALITY and SERVICE matter... Go Hi-Line



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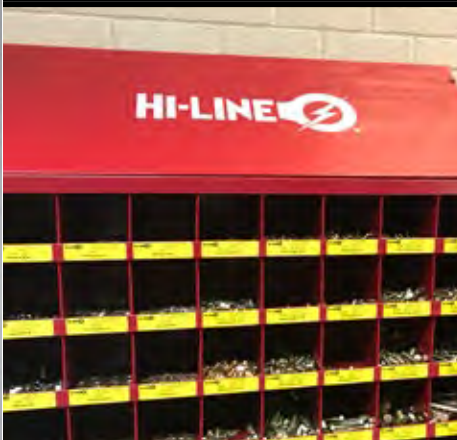
#PSUP2016

New Products

SUPPLEMENTAL CATALOG

Volume II

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PSUP2017



New Products

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Clear Penetrating Grease	732
Thermplex Foodlube Bearing Grease	732



PSUP2017



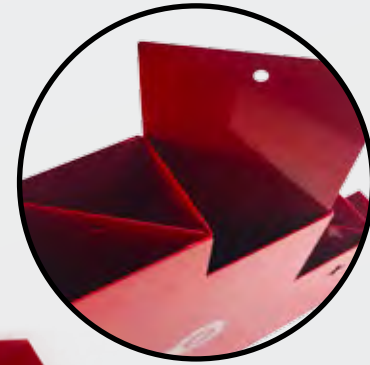


Cabinetry

CABLE TIE RACK

Part No: **PBCTR**

- 5 Compartments, each with a removable divider.
- 2 Compartments 12-1/4" high
- 1 Compartment 10-1/2" high
- 1 Compartment 6-1/2" high
- 1 Compartment 3" high
- All compartments are 3-5/8" wide



***Removable dividers**



BIN TOPPER

Part No: **PB4072T**

- Prime cold rolled steel
- Fits all PB40 type 12" x 33-3/4" parts bins
- Keeps top of bin free of clutter
- Durable red powder coat finish



Overall Dim: WxDxH (in.)	Part No:
33-3/4x12x8-5/8	PB4072T



WIRE SPOOL CART

Part No: **WSC**

- Heavy duty, all welded 14 gauge steel
- 1,200 lbs. total capacity
- 1-1/2" lip on top work surface prevents parts from falling off during transport
- Louvered panels on 2 ends, accommodate metal Hook-On Trays and plastic Hook-On-Bins® (Bins and Trays sold separately)
- Heavy duty handle makes transport easy, adds 6" to overall width of cart
- (8) 23" removable rods accommodate wire spools
- 7-1/2" between rods, larger spools can be accommodated if some rods are removed
- Recessed rods allow protection of spools during transport
- 4 wire guides hang below the work surface for ease in cutting wire
- (4) 5" x 1-1/4" polyurethane bolt on casters; (2) rigid and (2) locking swivel
- Durable textured red powder coat finish
- **Ships fully assembled**



Part No: **AM30210**

Part No: **AM30220**

Hook-On-Bins®	
Overall Dim: WxDxH (in.)	Part No:
4x5x3	AM30210
4x7x3	AM30220

***Optional**



Hook-on Metal Trays®

Part No: **WSCT**

***Optional**



Part No: **WSC**

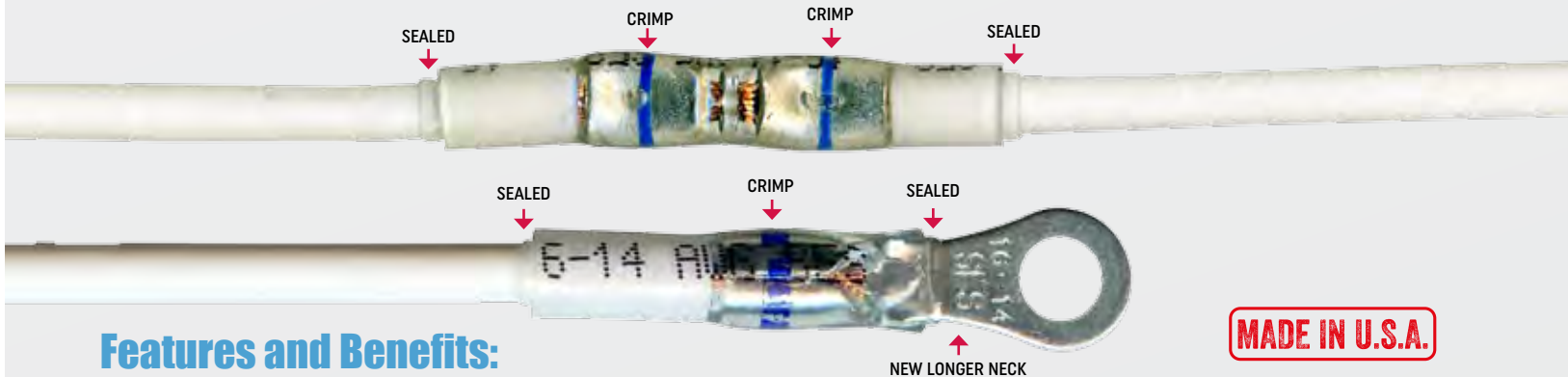
***Cart Only - Trays and bins optional**

Overall Dim: WxDxH (In.)	Description	Ship Wt.	Part No.
26 x 18 x 46	Cart w/2 sides of louvered panels	122 lbs	WSC



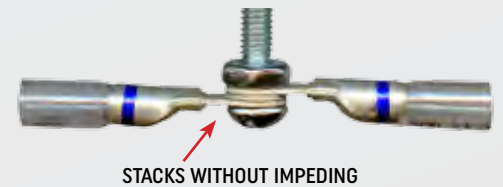
Take the Guess work Out of Crimping! Sealed Crystal Clear Connectors

Sealed Crystal Clear Connectors are designed to provide optimal visual assurance that the termination is installed properly and offers visual inspection of the wire condition over the life of the termination.



Features and Benefits:

- Window butt connector and 45° barrel on terminals allow installer to see wire is fully inserted and wire is crimped to terminal
- Window butt connector and 45° barrel on terminals ensure wire is stripped the proper length
- Color stripes provide alignment for tool to crimp center of barrel and indicates industry standard for wire gauge size
- Longer ring terminals provide ideal seal and offers a flush surface without tubing impeding contact between screw and terminal ... allows ring terminals to be stacked
- Crystal Clear™ waterproof insulation allows for indisputable inspection of the wire's condition



The Components

Window Butt Connectors:



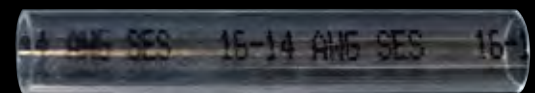
- Window in center of connector assures that wire is seated and that the wire is being crimped to the connector
- Color-coded stripes identify wire gauge size to be used with connector
- Color-coded stripes also indicate/guide where to position crimp nest to install properly
- Seamless barrel butt connectors ensure superior crimp performance
- Wire-stop in butt connectors prevents over-insertion of wire

45° Ring Terminal



- 45° barrel assures that wire is seated properly and wire is being crimped to terminal
- 45° barrel angle allows tubing to adhere to it and provides stronger seal
- Long ring terminal provides flush surface for maximum contact & allows ring terminal to be stacked
- Color-coded stripes identify wire gauge size to be used with connector
- Color-coded stripes also indicate/guide where to position crimp nest to install properly
- Brazed seam barrel ensures superior crimp performance
- Serrations in crimp barrel provide strong mechanical termination

CRYSTAL CLEAR™ Adhesive-Lined Heat Shrink Tubing:



- Crystal Clear™ tubing provides optimal clarity for visual inspection
- Adhesive-Lined tubing ensures a waterproof seal
- Wire gauge imprint simplifies wire size identification

Standard connectors do not allow the installer to see the wire which can result in the following problems:



- 1) Wire stripped too short, which can result in crimping the end of the wire (poor termination)
- 2) Wire is not fully seated to connector, which can result in a poor termination



SEALED WINDOW CRIMP CONNECTORS **MADE IN U.S.A.**

BUTT CONNECTORS				
Wire Gauge	Color Stripe	Description	Seam	Part No.
22-18 AWG	Red	Butt Connector	Seamless	CCWC2218
16-14 AWG	Blue	Butt Connector	Seamless	CCWC1614
12-10 AWG	Yellow	Butt Connector	Seamless	CCWC1210



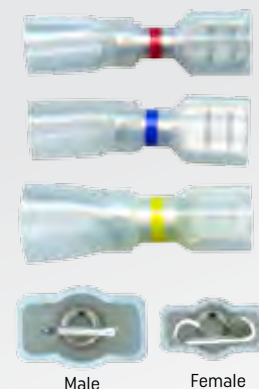
STEP-DOWN BUTT SPLICE				
Wire Gauge	Color Stripe	Description	Seam	Part No.
16-14 AWG to 12-10 AWG	Blue / Yellow	Step-Down	Seamless	CCW1610



RING TERMINALS					
Wire Gauge	Color Stripe	Stud	Description	Seam	Part No.
22-18 AWG	Red	#6 Stud	.80mm/.032"	Brazed	CCWA2356
22-18 AWG	Red	#8 Stud	.80mm/.032"	Brazed	CCWA9906
22-18 AWG	Red	#10 Stud	.80mm/.032"	Brazed	CCWA2146
16-14 AWG	Blue	#6 Stud	.80mm/.032"	Brazed	CCWB2266
16-14 AWG	Blue	#8 Stud	.80mm/.032"	Brazed	CCWB9926
16-14 AWG	Blue	#10 Stud	.80mm/.032"	Brazed	CCWB2176
16-14 AWG	Blue	1/4" Stud	.80mm/.032"	Brazed	CCWB2186
16-14 AWG	Blue	5/16" Stud	.80mm/.032"	Brazed	CCWB4546
16-14 AWG	Blue	3/8" Stud	.80mm/.032"	Brazed	CCWB4756
12-10 AWG	Yellow	#8 Stud	1.0mm/.040"	Brazed	CCWC086
12-10 AWG	Yellow	#10 Stud	1.0mm/.040"	Brazed	CCWC4576
12-10 AWG	Yellow	1/4" Stud	1.0mm/.040"	Brazed	CCWC7726
12-10 AWG	Yellow	5/16" Stud	1.0mm/.040"	Brazed	CCWC24286
12-10 AWG	Yellow	3/8" Stud	1.0mm/.040"	Brazed	CCWC4586



KWIK-ONS				
Wire Gauge	Color Stripe	Description	Seam	Part No.
22-18 AWG	Red	Female .250" tab x .032" (.80mm)	Butted w/Grip	CCWK506
22-18 AWG	Red	Male .250" tab x .032" (.80mm)	Butted w/Grip	CCWK516
16-14 AWG	Blue	Female .250" tab x .032" (.80mm)	Butted w/Grip	CCWK486
16-14 AWG	Blue	Male .250" tab x .032" (.80mm)	Butted w/Grip	CCWK496
12-10 AWG	Yellow	Female .250" tab x .032" (.80mm)	Butted w/Grip	CCWK526
12-10 AWG	Yellow	Male .250" tab x .032" (.80mm)	Butted w/Grip	CCWK536



Crystal Clear Assortment on Page 6

US Patent Protected • Rated for 105° C (221° F)



Electrical

CRYSTAL CLEAR CONNECTOR ASSORTMENT

Full Assortment
Part No: **CCWK**
235 Pieces (Comes in a PB24 parts bin)

Starter Assortment
Part No: **CCWKA**
120 Pieces (Comes in a PB24 parts bin)

Back of Drawer					
#8 RING 12-10 AWG CCWC4365	#10 RING 12-10 AWG CCWC4376	1/4" RING 12-10 AWG CCWC7726	5/16" RING 12-10 AWG CCWC24286	3/8" RING 12-10 AWG CCWC4586	BUTT SPLICE 12-10 AWG CCW1210
.250 RECP 16-14 AWG CCWK486	.250 MALE 16-14 AWG CCWK496	.250 MALE 12-10 AWG CCWK526	.250 MALE 12-10 AWG CCWK536	STEPDOWN BUTT 16-14 TO 12-10 CCW1610	BUTT SPLICE 16-14 AWG CCW1614
#6 RING 16-14 AWG CCWB2266	#8 RING 16-14 AWG CCWB526	#10 RING 16-14 AWG CCWB2176	1/4" RING 16-14 AWG CCWB2186	5/16" RING 16-14 AWG CCWB4546	3/8" RING 16-14 AWG CCWB4756
#6 RING 22-18 AWG CCWA2356	#8 RING 22-18 AWG CCWA9906	#10 RING 22-18 AWG CCWA2146	.250 RECP 22-18 AWG CCWK506	.250 RECP 22-18 AWG CCWK516	BUTT SPLICE 22-18 AWG CCW2218
Front of Drawer					

PERFORMANCE PLUS WIRE CONNECTORS

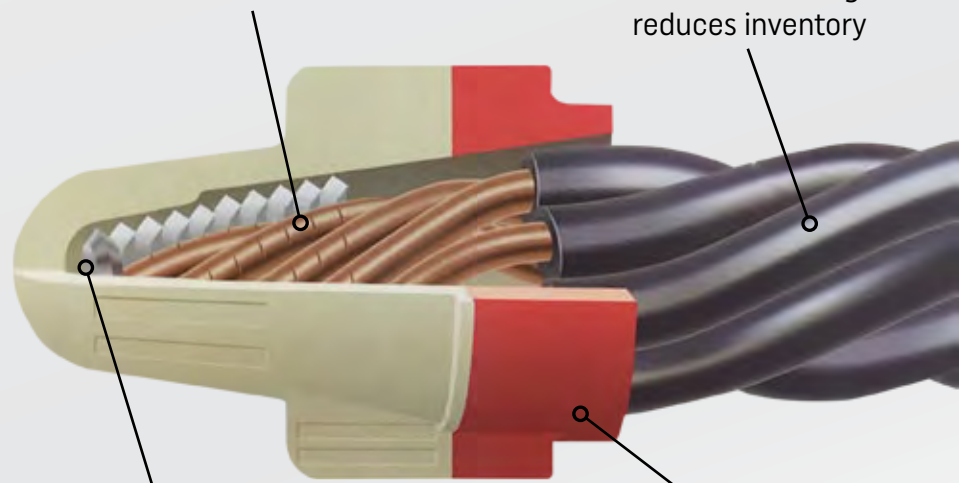


Wire Connector Color Range	Part No:
Orange / Blue	SL20B
Tan / Red	SL2TR
Red / Yellow	SL2RY
Blue / Gray	SL2BG

New Item added

A better bite for a better connection

A broad wire range reduces inventory



New design allows for easier installation

Flexible skirt provides safety



PLOW BOLTS – GRADE 8

- 150,000 PSI min. tensile strength
- Black finish
- #3 Head - 1/2" dia. are flat heads, all other diameters are Dome heads
- For use in attaching edges of snow plows and heavy earth-moving equipment



Diameter/ TPI	Length (in.)	Part No.
1/2"-13	1-1/4	226K114
	1-1/2	226K112
	1-3/4	226K134
	2	226K2
	2-1/4	226K214
	2-1/2	226K212
	2-3/4	226K234
	3	226K3
	3-1/2	226K312
	4	226K4
5/8"-11	1-1/2	226M112
	1-3/4	226M134
	2	226M2
	2-1/4	226M214
	2-1/2	226M212
	2-3/4	226M234
	3	226M3
	3-1/4	226M314
	3-1/2	226M312
	3-3/4	226M334
	4	226M4
	4-1/2	226M412
	5	226M5
	6	226M6

Diameter/ TPI	Length (in.)	Part No.
3/4"-10	2	226N2
	2-1/4	226N214
	2-1/2	226N212
	2-3/4	226N234
	3	226N3
	3-1/4	226N314
	3-1/2	226N312
	3-3/4	226N334
	4	226N4
	4-1/2	226N412
7/8"-9	5	226N5
	5-1/2	226N512
	6	226N6
	2	226O2
	2-1/4	226O214
	2-1/2	226O212
	2-3/4	226O234
	3	226O3
	3-1/4	226O314
	3-1/2	226O312
	3-3/4	226O334
	4	226O4
	4-1/2	226O412
	5	226O5
5-1/2	226O512	
6	226O6	

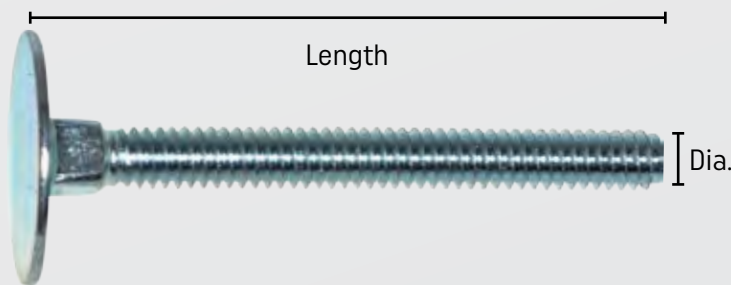
Diameter/ TPI	Length (in.)	Part No.
1"-8	3	226P3
	3-1/4	226P314
	3-1/2	226P312
	3-3/4	226P334
	4	226P4
	4-1/2	226P412
	5	226P5
	5-1/2	226P512
1-1/4"-7	6	226P6
	4	226R4
	4-1/4	226R414
	4-1/2	226R412
	5	226R5
	5-1/2	226R512
	6	226R6
7	226R7	



ELEVATOR BOLTS

- Also known as belt bolts, No. 1 Norway bolts, flat countersunk head bolts & elevator screws
- For grain elevators and other belt elevator belts and buckets
- Zinc plated grade 2 steel

Elevator bolts get their name from being used in grain elevators and other conveyor systems. They come with a large diameter flat head and a square neck which creates a large bearing surface which keeps the head from puncturing the soft conveyor belts. They have been around for a long time – dating back to the mid-1800s. They were originally designed to attach elevator buckets to a belt so grain could be lifted for storage in the vertical bins of a grain elevator. Their main use remains holding together canvas conveyor belts & the buckets on the belts of grain elevators & other conveyor systems. But, you can find elevator bolts being used in applications unrelated to their heritage such as: flooring, leveling legs, and wherever head clearance is a problem.



Dia./TPI Length	Part No.		
	1/4"-20	5/16"-18	3/8"-16
1"	204G1	204H1	204I1
1-1/4"	204G114	204H114	204I114
1-1/2"	204G112	204H112	204I112
2"	204G2	204H2	204I2
2-1/2"	204G212	204H212	204I212
3"	204G3	204H3	204I3



FENDER WASHERS

- Standard Thickness
- Zinc Plated



Nominal Size (in)	O.D. (in)	Part No.
1/8	9/16	39C
3/16	3/4	39E34
	1	39E
	1-1/8	39E118
	1-1/4	39E114
	1-1/2	39E112
1/4	1	39G1
	1-1/4	39F
	1-1/2	39G
5/16	2	39G2
	1-1/4	39H114
	1-1/2	39H
3/8	2	39H2
	1	39I1
	1-1/4	39I114
	1-1/2	39I
	1-3/4	39I134
1/2	2	39I2
	1-1/4	39K114
	1-1/2	39K112
	1-3/4	39K134
	2	39K

EXTRA-THICK FENDER WASHERS

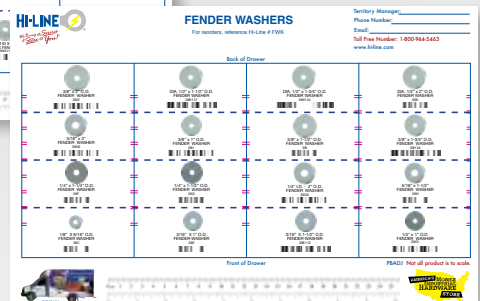
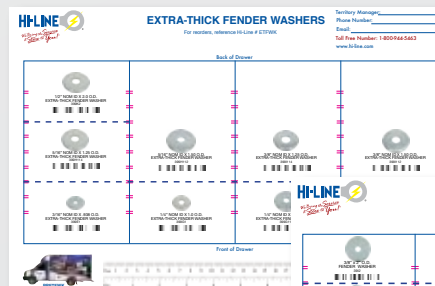
- Extra-Thick
- Zinc Plated



Nominal Size (in)	O.D. (in)	Part No.
3/16	0.938	399E1
1/4	1	399G1
	1.25	399G114
	1.5	399G112
5/16	1.25	399H114
	1.5	399H112
3/8	1.25	399I114
	1.5	399I112
1/2	2	399K2



Fender Washer Assortments on Page 10





FENDER WASHERS ASSORTMENT

Full Assortment

Part No: **FWK**

800 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 3/8" x 2" O.D. FENDER WASHER 39I2	 DIA. 1/2" x 1-1/2" O.D. FENDER WASHER 39K112	 DIA. 1/2" x 1-3/4" O.D. FENDER WASHER 39K134	 DIA. 1/2" x 2" O.D. FENDER WASHER 39K
 5/16" x 2" FENDER WASHER 39H2	 3/8" x 1" O.D. FENDER WASHER 39I1	 3/8" x 1-1/2" O.D. FENDER WASHER 39I	 3/8" x 1-3/4" O.D. FENDER WASHER 39I134
 1/4" x 1-1/4" O.D. FENDER WASHER 39F	 1/4" x 1-1/2" O.D. FENDER WASHER 39G	 1/4" I.D. - 2" O.D. FENDER WASHER 39G2	 5/16" x 1-1/2" FENDER WASHER 39H
 1/8" X 9/16" O.D. FENDER WASHER 39C	 3/16" x 1" O.D. FENDER WASHER 39E	 3/16" X 1-1/2" O.D. FENDER WASHER 39E112	 1/4" x 1" O.D. FENDER WASHER 39G1
Front of Drawer			

EXTRA-THICK FENDER WASHERS ASSORTMENT

Full Assortment

Part No: **ETFWK**

450 Pieces (Comes in a PBADJ parts bin)

Back of Drawer			
 1/2" NOM ID X 2.0 O.D. EXTRA-THICK FENDER WASHER 399K2			
 5/16" NOM ID X 1.25 O.D. EXTRA-THICK FENDER WASHER 399H114	 5/16" NOM ID X 1.50 O.D. EXTRA-THICK FENDER WASHER 399H112	 3/8" NOM ID X 1.25 O.D. EXTRA-THICK FENDER WASHER 399I114	 3/8" NOM ID X 1.50 O.D. EXTRA-THICK FENDER WASHER 399I112
 3/16" NOM ID X .938 O.D. EXTRA-THICK FENDER WASHER 399E1	 1/4" NOM ID X 1.0 O.D. EXTRA-THICK FENDER WASHER 399G1	 1/4" NOM ID X 1.25 O.D. EXTRA-THICK FENDER WASHER 399G114	 1/4" NOM ID X 1.50 O.D. EXTRA-THICK FENDER WASHER 399G112
Front of Drawer			



SELF-LOCKING WEDGE WASHERS

- Resists loosening caused by vibration
- Easy to assemble and disassemble
- Locking function unaffected by lubrication
- Positive locking - low or high pre-load levels
- Minimum surface marring Zinc plated
- Nord-Lock™ brand
- Good for bolt grades up to Class 12.9



Nord Lock Washers, Zinc Plated - Inch		
Bolt Size	O.D (in.)	Part No.
#10	11/32	341E
1/4"	27/64	341G
5/16"	17/32	341H
3/8"	21/32	341I
7/16"	23/32	341J
1/2"	49/64	341K
9/16"	29/32	341L
5/8"	1	341M
3/4"	1-7/32	341N
1	1-17/32	341P

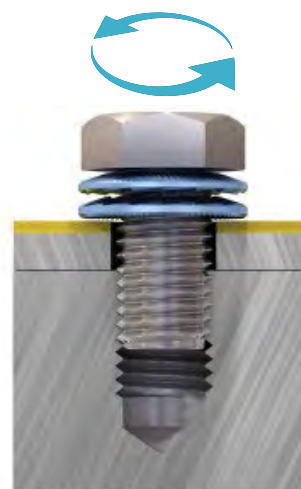
Nord Lock Washers, Zinc Plated - Metric		
Bolt Size (mm)	O.D (mm)	Part No.
4	7.6	9454
5	9	9455
6	10.8	9456
8	13.5	9458
10	16.6	94510
12	19.5	94512
14	23	94514
16	25.4	94516
18	29	94518
20	30.7	94520

HOW DO WEDGE LOCK WASHERS WORK?

As for all locking washers, through holes require two pairs of Nord-Lock washers – one pair for securing the bolt and a second pair for securing the nut. Turn both fasteners in order to close the cams on both washer pairs before tightening to minimize settlements. Keep the nut secure while tightening the bolt.



When the bolt and/or nut is tightened the teeth grip and seat the mating surfaces. The Nord-Lock wedge lock washer is locked in place, allowing movement only across the face of the cams. Any attempt from the bolt/nut to rotate loose is blocked by the wedge effect of the cams.

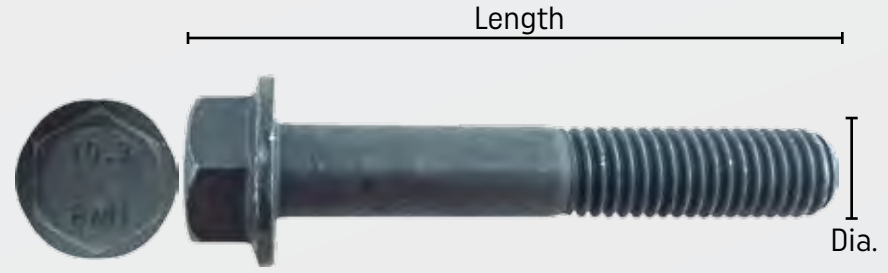


When a bolt is untightened with a wrench the pair of washers expand more than the corresponding pitch of the thread allows the bolt/nut to rise. Nord-Lock wedge lock washers positively secure the fastener in a joint which is subjected to any kind of vibration or dynamic loads.



HEX FLANGE BOLTS - METRIC

- Class 10.9
- Black Finish
- Popular for truck frame and king pin repairs
- Flat washers not required
- Less setting of material being clamped



	Dia. / Pitch	Part No.
M6	M6-1.0x12	97961012
	M6-1.0x16	97961016
	M6-1.0x20	97961020
	M6-1.0x25	97961025
	M6-1.0x30	97961030
	M6-1.0x35	97961035
	M6-1.0x40	97961040
M8	M8-1.25x12	979812512
	M8-1.25x16	979812516
	M8-1.25x20	979812520
	M8-1.25x25	979812525
	M8-1.25x30	979812530
	M8-1.25x35	979812535
	M8-1.25x40	979812540
	M8-1.25x45	979812545
	M8-1.25x50	979812550
	M8-1.25x55	979812555
	M8-1.25x60	979812560
	M8-1.25x70	979812570



	Dia. / Pitch	Part No.
M10	M10-1.5x16	9791015016
	M10-1.5x20	9791015020
	M10-1.5x25	9791015025
	M10-1.5x30	9791015030
	M10-1.5x35	9791015035
	M10-1.5x40	9791015040
	M10-1.5x45	9791015045
	M10-1.5x50	9791015050
	M10-1.5x55	9791015055
	M10-1.5x60	9791015060
	M10-1.5x70	9791015070
	M10-1.5x80	9791015080
	M10-1.5x90	9791015090
M12	M12-1.75x100	97910150100
	M12-1.75x25	9791217525
	M12-1.75x30	9791217530
	M12-1.75x35	9791217535
	M12-1.75x40	9791217540
	M12-1.75x45	9791217545
	M12-1.75x50	9791217550
	M12-1.75x55	9791217555
	M12-1.75x60	9791217560
	M12-1.75x70	9791217570
M12-1.75x80	9791217580	
M12-1.75x90	9791217590	
M12-1.75x100	97912175100	

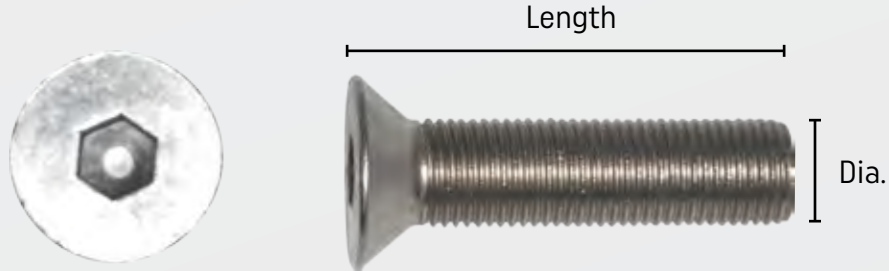
Class 10 Flange Nuts Black Finish

Dia. / Pitch	Part No.
M6-1.0	980610
M8-1.25	9808125
M10-1.5	98010150
M12-1.75	98012175



STAINLESS STEEL FLAT SOCKET HEAD CAP SCREWS

- 18-8 Stainless Steel
- SAE fine thread

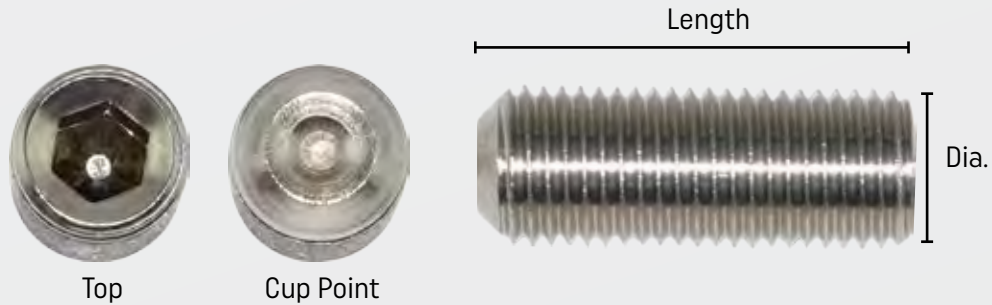


Flat Socket Head Cap Screws 18-8 SS SAE Fine Thread		
Dia. / TPI	Length (in)	Part No.
1/4"-20	3/8	490G38
	1/2	490G12
	5/8	490G58
	3/4	490G34
	7/8	490G78
	1	490G1
	1-1/4	490G114
	1-1/2	490G112
	2	490G2
5/16"-24	3/4	490H34
	7/8	490H78
	1	490H1
	1-1/4	490H114
	1-1/2	490H112
	2	490H2
3/8"-24	3/4	490I34
	7/8	490I78
	1	490I1
	1-1/4	490I114
	1-1/2	490I112
	2	490I2
1/2"-20	1	490K1
	1-1/4	490K114
	1-1/2	490K112
	2	490K2
	2-1/2	490K212
	3	490K3



STAINLESS STEEL SOCKET SET SCREWS

- 18-8 Stainless
- SAE Fine Thread



Socket Set Screws 18-8 Stainless Steel - SAE Fine Thread											
Dia. / TPI	Length (In)	Part No.	Dia. / TPI	Length (In)	Part No.	Dia. / TPI	Length (In)	Part No.			
#2-64	1/8	172AA18	#10-32	1/8	172E18	3/8"-24	1/4	172I14			
	3/16	172AA316		3/16	172E316		5/16	172I516			
	1/4	172AA14		1/4	172E14		3/8	172I38			
#3-56	1/8	172A18		5/16	172E516		1/2	172I12			
	3/16	172A316		3/8	172E38		5/8	172I58			
	1/4	172A14		1/2	172E12		3/4	172I34			
	5/16	172A516		5/8	172E58		1	172I1			
	3/8	172A38		3/4	172E34		1-1/4	172I114			
#4-48	1/8	172B18		1	172E1		1-1/2	172I112	1/2"-20	3/8	172K38
	3/16	172B316		1/4"-28	1/4		172G14	1/2		172K12	
	1/4	172B14	5/16		172G516	5/8	172K58				
	5/16	172B516	3/8		172G38	3/4	172K34				
	3/8	172B38	1/2		172G12	1	172K1				
	1/2	172B12	5/8		172G58	1-1/4	172K114				
#6-40	1/8	172C18	3/4		172G34	1-1/2	172K112	5/8"-18	3/4	172M34	
	3/16	172C316	1	172G1	3/4	172M114					
	1/4	172C14	5/16"-24	1/4	172H14	1	172M114				
	5/16	172C516		5/16	172H516	1-1/4	172M114				
	3/8	172C38		3/8	172H38	1-1/2	172M112				
1/2	172C12	1/2		172H12	1-1/2	172M112					
#8-36	1/4	172D14		5/8	172H58	2	172M2	3/4"-16	1/2	172N12	
	3/8	172D38	3/4	172H34	3/4	172N34					
	1/2	172D12	1	172H1	1	172N1					
	3/4	172D34	3/4"-16	1/2	172N12	1-1/4	172N114				
		3/4		172N34	1-1/2	172N112					
		1		172N1	2	172N2					
		1-1/4		172N114							
		1-1/2		172N112							
		2		172N2							



STAINLESS STEEL JAM NUTS

- 18-8 Stainless Steel
- SAE fine thread



Jam Nuts 18-8 SS SAE Fine Thread	
Size (In.)	Part No.
1/4"-28	69G
5/16"-24	69H
3/8"-24	69I
7/16"-20	69J
1/2"-20	69K
5/8"-18	69M
3/4"-16	69N

STAINLESS STEEL NYLON INSERT LOCKNUTS

- 18-8 Stainless Steel
- SAE fine thread



Nylon Insert Locknuts 18-8 SS SAE Fine Thread	
Size (In.)	Part No.
#10-32	68E
1/4"-28	68G
5/16"-24	68H
3/8"-24	68I
7/16"-20	68J
1/2"-20	68K
5/8"-18	68M
3/4"-16	68N

TYPES OF STAINLESS FASTENERS

18-8

The term 18-8 stainless steel is used to describe a family of stainless steels that contains 18% chromium and 8% nickel in their formulas. This family includes types: 302, 303, 304 and 305.

It became common for fastener buyers to simply order, in lieu of a specific type, any stainless fastener with 18% chromium and 8% Nickel in the "recipe". This was due to a great deal of interchangeability of this group. So, the shorthand term "18-8" was born.

The 18-8 types of stainless steel are very corrosion resistant and have a minimum tensile strength similar to a Grade 2 bolt. 18-8 fasteners also offer meaningful strength at elevated temperatures, so it is common to see stainless steel fasteners being used in high heat applications – even where corrosion is not a major concern.

316

Another common austenitic stainless steel used in fastener manufacturing is type 316. This type uses additional amounts of nickel and molybdenum for increased resistance to chlorides and sulfates (salts, salt water). 316 stainless steel fasteners are also often used in food processing, marinas, photographic works, chemical refineries, ink, textile, bleach, and rubber manufacturing. The tensile strength of 18-8 and 316 fasteners are the same.

Metrics

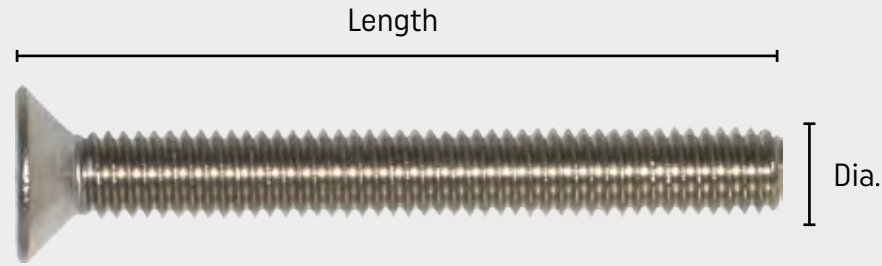
A2 is the ISO (International Standards Organization) designation for a stainless steel comparable to 18-8.

A4 is the ISO designation for stainless steel comparable to 316.



STAINLESS STEEL FLAT HEAD SOCKET CAP SCREWS - METRIC

- A2 STAINLESS STEEL

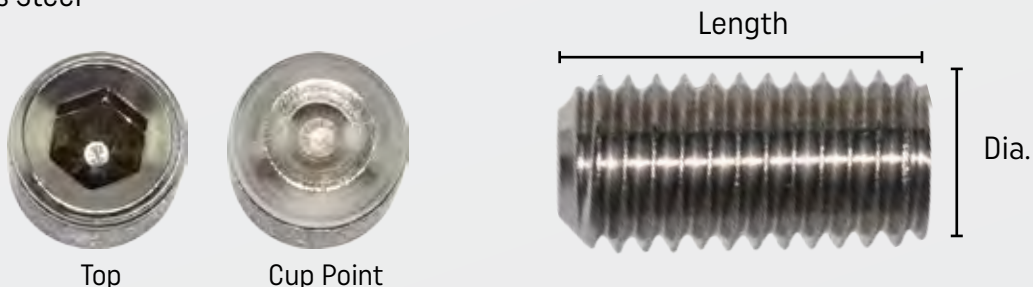


Flat Head Socket Cap Screw - Metric - A2 Stainless Steel									
Dia./Pitch	Length (mm)	Part No.	Dia./Pitch	Length (mm)	Part No.	Dia./Pitch	Length (mm)	Part No.	
M3-50	4	9483504	M5-80	6	9485806	M8-1.25	10	948812510	
	5	9483505		8	9485808		12	948812512	
	6	9483506		10	94858010		14	948812514	
	8	9483508		12	94858012		16	948812516	
	10	94835010		14	94858014		18	948812518	
	12	94835012		16	94858016		20	948812520	
	16	94835016		18	94858018		25	948812525	
	18	94835018		20	94858020		30	948812530	
	20	94835020		25	94858025		35	948812535	
	25	94835025		30	94858030		40	948812540	
	30	94835030		35	94858035		45	948812545	
40	94835040	40	94858040	50	948812550				
M4-70	6	9484706	M6-1.0	45	94858045	M10-1.50	30	9481015030	
	8	9484708		50	94858050		35	9481015035	
	10	94847010		60	94858060		40	9481015040	
	12	94847012		8	94861008		45	9481015045	
	14	94847014		10	948610010		50	9481015050	
	16	94847016		12	948610012		60	9481015060	
	18	94847018		14	948610014		M12-1.75	30	9481217530
	20	94847020		16	948610016			35	9481217535
	25	94847025		18	948610018			40	9481217540
	30	94847030		20	948610020			45	9481217545
	35	94847035		25	948610025			50	9481217550
40	94847040	30	948610030	60	9481217560				
45	94847045	35	948610035						
50	94847050	40	948610040						
		45	948610045						
		50	948610050						



STAINLESS STEEL SOCKET SET SCREWS - METRIC

- A2 Stainless Steel



Socket Set Screws - Metric - A2 Stainless Steel								
Dia. - Pitch	Length	Part No.	Dia. - Pitch	Length	Part No.	Dia. - Pitch	Length	Part No.
M3-5	4	587354	M6-1	6	587616	M10-1.5	8	58710158
	5	587355		8	587618		10	587101510
	6	587356		10	5876110		12	587101512
	8	587358		12	5876112		14	587101514
	10	5873510		14	5876114		16	587101516
	12	5873512		16	5876116		18	587101518
	16	5873516		18	5876118		20	587101520
	18	5873518		20	5876120		25	587101525
	20	5873520		25	5876125		30	587101530
M4-7	4	587474	M8-1.25	30	5876130	M12-1.75	35	587101535
	5	587475		35	5876135		40	587101540
	6	587476		40	5876140		12	5871217512
	8	587478		8	58781258		14	5871217514
	10	5874710		10	587812510		16	5871217516
	12	5874712		12	587812512		18	5871217518
	14	5874714		14	587812514		20	5871217520
	16	5874716		16	587812516		25	5871217525
20	5874720	18	587812518	30	5871217530			
M5-8	4	587584	20	587812520	35		5871217535	
	5	587585	25	587812525	40		5871217540	
	6	587586	30	587812530				
	8	587588	35	587812535				
	10	5875810	40	587812540				
	12	5875812						
	14	5875814						
	16	5875816						
	18	5875818						
	20	5875820						
	25	5875825						
	30	5875830						



STAINLESS STEEL PIPE FITTINGS

- Type 316 Stainless Steel
- 150 lb. rated
- Threaded cast fittings
- Great for food processors, dairies, pharmaceuticals, marinas, electric power plants, oilfield and ethanol plants.



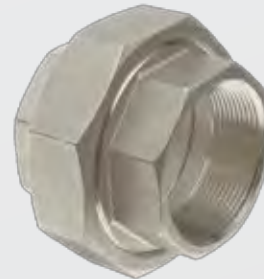
Square Head Plug	
Male Pipe Thread	Part No.
1/8	S3151X2
1/4	S3151X4
3/8	S3151X6
1/2	S3151X8
3/4	S3151X12
1	S3151X16



Hex Head Plug	
Male Pipe Thread	Part No.
1/8	S3152X2
1/4	S3152X4
3/8	S3152X6
1/2	S3152X8
3/4	S3152X12
1	S3152X16



Tee	
Female Pipe Thread	Part No.
1/8	S3700X2
1/4	S3700X4
3/8	S3700X6
1/2	S3700X8
3/4	S3700X12
1	S3700X16



Union	
Female Pipe Thread	Part No.
1/8	S3250X2
1/4	S3250X4
3/8	S3250X6
1/2	S3250X8
3/4	S3250X12
1	S3250X16



Cap	
Female Pipe Thread	Part No.
1/8	S3129X2
1/4	S3129X4
3/8	S3129X6
1/2	S3129X8
3/4	S3129X12
1	S3129X16



STAINLESS STEEL PIPE FITTINGS

- Type 316 Stainless Steel
- 150 lb. rated
- Threaded cast fittings
- Great for food processors, dairies, pharmaceuticals, marinas, electric power plants, oilfield and ethanol plants.



Nipple		
Male Pipe Thread	Length	Part No.
1/8	3/4 (CLOSE)	S3340X2XC1
	1-1/2	S3340X2X112
	2	S3340X2X2
	2-1/2	S3340X2X212
	3	S3340X2X3
	3-1/2	S3340X2X312
	4	S3340X2X4
	4-1/2	S3340X2X412
	5	S3340X2X5
	5-1/2 (CLOSE)	S3340X2X512
	6	S3340X2X6
1/4	7/8 (CLOSE)	S3340X4X78
	1-1/2	S3340X4X112
	2	S3340X4X2
	2-1/2	S3340X4X212
	3	S3340X4X3
	3-1/2	S3340X4X312
	4	S3340X4X4
	4-1/2	S3340X4X412
	5	S3340X4X5
	5-1/2	S3340X4X512
	6	S3340X4X6
3/8	1 (CLOSE)	S3340X6X1
	1-1/2	S3340X6X112
	2	S3340X6X2
	2-1/2	S3340X6X212
	3	S3340X6X3
	3-1/2	S3340X6X312
	4	S3340X6X4
	4-1/2	S3340X6X412
	5	S3340X6X5
	5-1/2	S3340X6X512
	6	S3340X6X6

Nipple		
Male Pipe Thread	Length	Part No.
1/2	1-1/8 (CLOSE)	S3340X8X118
	1-1/2	S3340X8X112
	2	S3340X8X2
	2-1/2	S3340X8X212
	3	S3340X8X3
	3-1/2	S3340X8X312
	4	S3340X8X4
	4-1/2	S3340X8X412
	5	S3340X8X5
	5-1/2	S3340X8X512
	6	S3340X8X6
3/4	1-3/8 (CLOSE)	S3340X12X138
	1-1/2	S3340X12X112
	2	S3340X12X2
	2-1/2	S3340X12X212
	3	S3340X12X3
	3-1/2	S3340X12X312
	4	S3340X12X4
	4-1/2	S3340X12X412
	5	S3340X12X5
	5-1/2	S3340X12X512
	6	S3340X12X6
1	1-1/2 (CLOSE)	S3340X16X112
	2	S3340X16X2
	2-1/2	S3340X16X212
	3	S3340X16X3
	3-1/2	S3340X16X312
	4	S3340X16X4
	4-1/2	S3340X16X412
	5	S3340X16X5
	5-1/2	S3340X16X512
	6	S3340X16X6



STAINLESS STEEL PIPE FITTINGS

- Type 316 Stainless Steel
- 150 lb. rated
- Threaded cast fittings
- Great for food processors, dairies, pharmaceuticals, marinas, electric power plants, oilfield and ethanol plants.



90 ° Elbow	
Female Pipe Thread	Part No.
1/8	S3500X2
1/4	S3500X4
3/8	S3500X6
1/2	S3500X8
3/4	S3500X12
1	S3500X16

90° Street Elbow		
Female Pipe Thread	Male Pipe Thread	Part No.
1/8	1/8	S3400X2
1/4	1/4	S3400X4
3/8	3/8	S3400X6
1/2	1/2	S3400X8
3/4	3/4	S3400X12
1	1	S3400X16



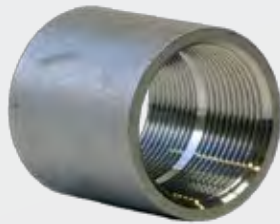
45 ° Elbow	
Female Pipe Thread	Part No.
1/8	S3350X2
1/4	S3350X4
3/8	S3350X6
1/2	S3350X8
3/4	S3350X12
1	S3350X16

Hex Bushing		
Male Pipe Thread	Female Pipe Thread	Part No.
1/4	1/8	S3220X4x2
3/8	1/8	S3220X6x2
3/8	1/4	S3220X6x4
1/2	1/8	S3220X8x2
1/2	1/4	S3220X8x4
1/2	3/8	S3220X8x6
3/4	1/8	S3220X12x2
3/4	1/4	S3220X12x4
3/4	3/8	S3220X12x6
3/4	1/2	S3220X12x8
1	1/8	S3220X16x2
1	1/4	S3220X16x4
1	3/8	S3220X16x6
1	1/2	S3220X16x8
1	3/4	S3220X16x12

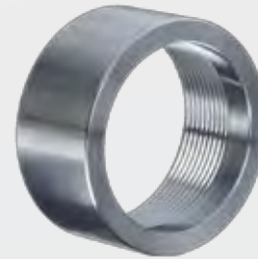


STAINLESS STEEL PIPE FITTINGS

- Type 316 Stainless Steel
- 150 lb. rated
- Threaded cast fittings
- Great for food processors, dairies, pharmaceuticals, marinas, electric power plants, oilfield and ethanol plants.



Coupling	
Female Pipe Thread	Part No.
1/8	S3300X2
1/4	S3300X4
3/8	S3300X6
1/2	S3300X8
3/4	S3300X12
1	S3300X16



Half Coupling	
Female Pipe Thread	Part No.
1/8	S3301X2
1/4	S3301X4
3/8	S3301X6
1/2	S3301X8
3/4	S3301X12
1	S3301X16

Reducer Coupling		
Female Pipe Thread A	Female Pipe Thread B	Part No.
1/4	1/8	S3300X4X2
3/8	1/8	S3300X6X2
3/8	1/4	S3300X6X4
1/2	1/8	S3300X8X2
1/2	1/4	S3300X8X4
1/2	3/8	S3300X8X6
3/4	1/8	S3300X12X2
3/4	1/4	S3300X12X4
3/4	3/8	S3300X12X6
3/4	1/2	S3300X12X8
1	1/4	S3300X16X4
1	3/8	S3300X16X6
1	1/2	S3300X16X8
1	3/4	S3300X16X12





AIR CONDITIONING O-RINGS

- Blue, Green, R134A, R12
- Neoprene

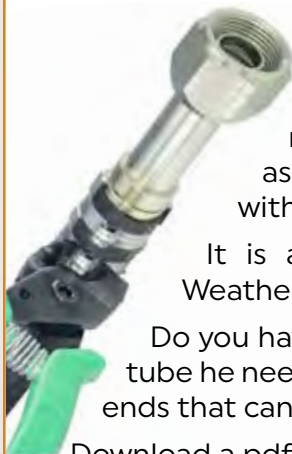
Air Conditioning O-Ring, Blue R134A, R12				
I.D.	O.D.	Thickness	Ind. No.	Part No.
1/4	7/16	3/32	108	ORA108
5/16	7/16	1/16	011	ORA011
3/8	9/16	3/32	110	ORA110
7/16	9/16	1/16	013	ORA013
1/2	11/16	3/32	112	ORA112
9/16	11/16	1/16	015	ORA015
9/16	3/4	3/32	113	ORA113
11/16	13/16	1/16	017	ORA017
11/16	7/8	3/32	115	ORA115



Air Conditioning O-Ring, Green R134A, R12				
I.D.	O.D.	Thickness	Ind. No.	Part No.
.301	.441	.07	#6	ZW74706
.426	.566	.07	#8	ZW74708
.551	.691	.07	#10	ZW74710
.676	.816	.07	#12	ZW74712



E-Z Clip System



The EZ Clip system is well, easy to use. For a hose crimper all you need is the specially designed (FT1357) plier. This small hand plier along with the hose, cage, nipple and clips combine to deliver easy to put-together assemblies that meet SAE J2064. The hose can even be cut with our hand tube cutter (T-135).

It is all explained step by step with photos in your Eaton Weatherhead Hose catalog starting on page K-63.

Do you have a customer that has an OEM aluminum air conditioning tube he needs to reuse? Show him your A/C aluminum LIFESAVER hose ends that can be brazed onto the OEM tube. They are on page K60.

Download a pdf on the Aluminum Lifesaver here: <https://goo.gl/Uk9eVc>





123 BATTERY

Part No: **BAT123A**

- Replaces 123, 123A, BR2/3A, CR123, CR123A, CR123R, CR17335, CR17345, DL123, EL123AP, K123LA, L123A, SF123A, VL123A, 5018LC
- Lithium
- Perform in extreme temperatures from -40°F - 140°F
- Holds power for 10 years when not in use
- Leak resistant construction
- 3 Volts



Part No: **BAT123A**

Be sure to organize your supplements with your Master Catalog for quick reference.



Master Catalog - 2016
Part No: **PMASTER16**



Supplemental Catalog
Volume 2 - 2017
Part No: **PSUP2017**



Supplemental Catalog
Volume 1 - 2016
Part No: **PSUP2016**



AN AMERICAN

Original

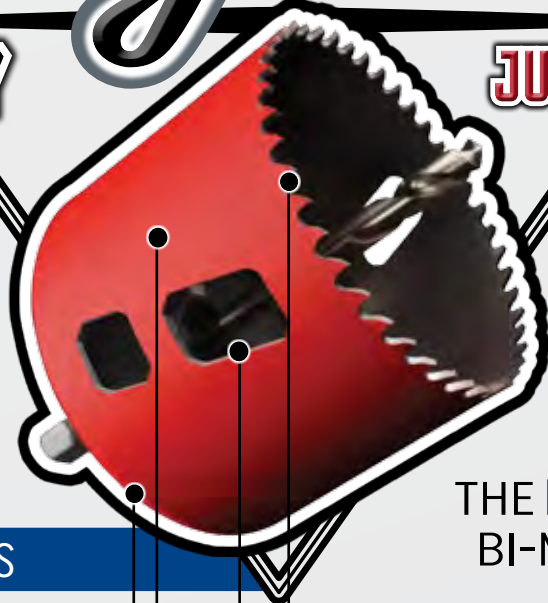
est. 2017

JUST GOT BETTER

Introducing...

The ALL-NEW Advanced Bi-Metal Hole Saw by Morse. Our latest sawing innovation replaces all current Morse bi-metal hole saw solutions into one, simple optimized powerhouse.

MADE IN U.S.A.



FEATURES & BENEFITS

PATENT PENDING TOOTH SET DESIGN

- Optimized to Remove Material Faster

NEW CAP

- Reduces Runout and Vibration

PREMIUM M42 HIGH SPEED STEEL CUTTING EDGE, 8% COBALT

- Over 2X the Life of Our AV Model

CUTTING DEPTH

- Increased 18% Over Our AV Model

HEAVY DUTY .050 SIDE WALL

- For Greater Stability

NEW SIDE SLOT

- Increased Leverage for Faster, Easier Slug Removal

NEW EXTERIOR RED COATING

- Reduces Side Wall Friction for Efficient Cutting

THE Best PERFORMING BI-METAL HOLE SAW Anywhere!



Part No: SH_



PREMIUM SAWING SOLUTIONS



SIMPLIFIED, MORE CUSTOMER-FRIENDLY LINE

5 HOLE SAWS

DOWN TO ONE
HIGH PERFORMANCE
HOLE SAW



Part No: SH_

11 ARBORS

DOWN TO FIVE



SHA24 SHA44 SHA35 SHA35PS SHA44K

HERE'S WHAT YOU NEED TO KNOW...

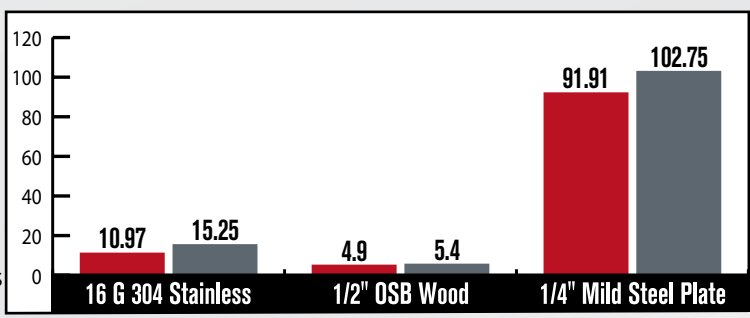
Arbor Part Numbers

			NEW		
Fits Saws	9/16" - 1/3/16"	9/16" - 1/3/16"	9/16" - 1/3/16"	1-1/4" - 6"	1-1/4" - 6"
Pin Drive	No	No	No	Yes	Yes
Shank (in.)	1/4	3/8	3/8	3/8	7/16
Thread	1/2" -20	1/2" -20	5/8" - 18	5/8" - 18	5/8" - 18
Mfg #	MA24	MA34	MA35	MA35PS	MA45PS
Part No.	SHA24	SHA44	SHA35	SHA35PS	SHA44K

TESTING... External Testing - Nine (9) Global Sites / Testing Against Five (5) Competitors

CUT TIME
Avg. Cut Time
(Seconds)

■ Morse
■ Competitors



MORSE THE M. K. MORSE COMPANY **CUTS FASTER**

39% in 16 G 304 Stainless
10% in 1/2" OSB Wood
12% in 1/4" Mild Steel Plate



Chemicals

FIRST-TO-MARKET SOLUTIONS THAT GREATLY REDUCE RISK

market today, **you can use both of these products in food processing areas while food is being processed.**

No need to wait on maintenance nor shutdowns to do what it takes to keep you moving well past the competition!

At LPS® they work hard to lead the market and bring you innovative solutions that help you maximize your potential. We are proud to bring you two, first-to-market innovations that are sure to keep your food manufacturing facility moving more efficiently while decreasing the threat of contamination. Unlike competitive products on the



THE **FIRST** AND **ONLY** ELECTRONIC CLEANER THAT'S FOOD SAFE.



Clean while still in operation

THE **FIRST** AND **ONLY** STAINLESS STEEL CLEANER THAT'S FOOD SAFE.



Rapidly remove soils from stainless steel surfaces



Part No: **AS91**
11 wt. oz. / 312 g

NEW

MADE IN U.S.A.

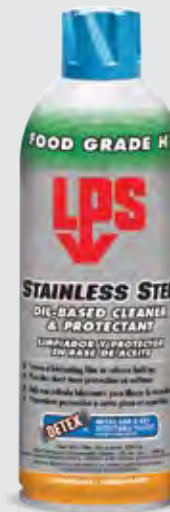
FOOD GRADE ELECTRONIC CLEANER

NSF® Rating				

- Removes dirt, moisture, and oxides from electronic equipment
- Plastic safe and ideal for cleaning delicate precision mechanisms
- Rapidly evaporates, leaving no residue
- Manufactured for the food industry and safe for use in all plant areas
- VOC compliant in all 50 US States
- Ideal for use on off-line electronic components
- Nonfood Compounds Program Listed Category Code: P1 Registration #154685

Can be applied to these electronic components

- | | |
|------------|-------------------|
| Breakers | Digital Equipment |
| Connectors | Office Equipment |
| Contacts | Printed Circuits |
| Controls | Switches |



Part No: **AS92**
13 wt. oz. / 368 g

NEW

MADE IN U.S.A.

STAINLESS STEEL Oil Based Cleaner & Protectant

NSF® Rating				

- Penetrates to remove soils from Stainless Steel surfaces and leaves a light, durable lubricating film to release build up
- Provides short term protection on surface
- Rapidly removes soils from surfaces commonly found in food and beverage facilities
- VOC compliant in all 50 US States
- Nonfood Compounds Program Listed Category Code: H1 Registration #153981

Can be applied to these metal surfaces

- | | |
|----------|-----------------|
| Aluminum | Chrome |
| Brass | Stainless steel |
| Copper | |



LUBRICANTS/PENETRANTS

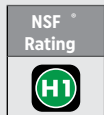
FOOD GRADE MACHINE OIL



PENETRATES TO LOOSEN FROZEN NUTS AND BOLTS

Part No: **AS17**

MADE IN U.S.A.



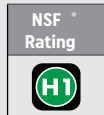
FOOD GRADE SILICONE LUBRICANT



PROVIDES EXCELLENT LUBRICATION

Part No: **AS18**

MADE IN U.S.A.



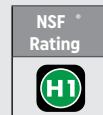
FOODLUBE CHAIN SPRAY



STRONG BONDING FILM FOR CHAINS

Part No: **AS71**

MADE IN U.S.A.



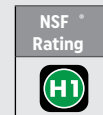
HEAVY-DUTY SILICONE LUBRICANT



WATER-BASED SILICONE-RICH FOR CHAINS

Part No: **AS09**

MADE IN U.S.A.



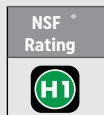
FOODLUBE PENETRATING OIL SYNTHETIC LUBRICANT



PTFE FORTIFIED

Part No: **AS76**

MADE IN U.S.A.



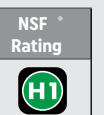
FOODLUBE SUGAR DISSOLVING FLUID



RAPIDLY DISSOLVES AND REMOVES SUGARS AND FONDANTS

Part No: **AS75**

MADE IN U.S.A.



SPECIALTY MRO

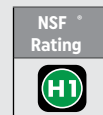
BELT DRESSING



PREVENTS BELT SLIPPAGE

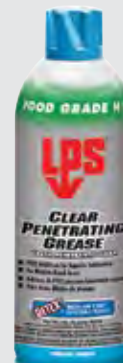
Part No: **AS04**

MADE IN U.S.A.



GREASES

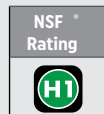
CLEAR PENETRATING GREASE



QUICK PENETRATING ACTION

Part No: **AS54**

MADE IN U.S.A.



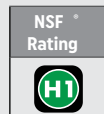
THERMAPLEX® FOODLUBE BEARING GREASE



VERY GOOD LOAD CAPACITY

Part No: **CHG09**

MADE IN U.S.A.



NSF® CATEGORY CODE DEFINITIONS

INCIDENTAL FOOD CONTACT



This product is acceptable for use as an electronic cleaner with incidental food contact for use in and around food processing areas. Nonfood Compounds Program Listed Category Code: P1 Registration #154685

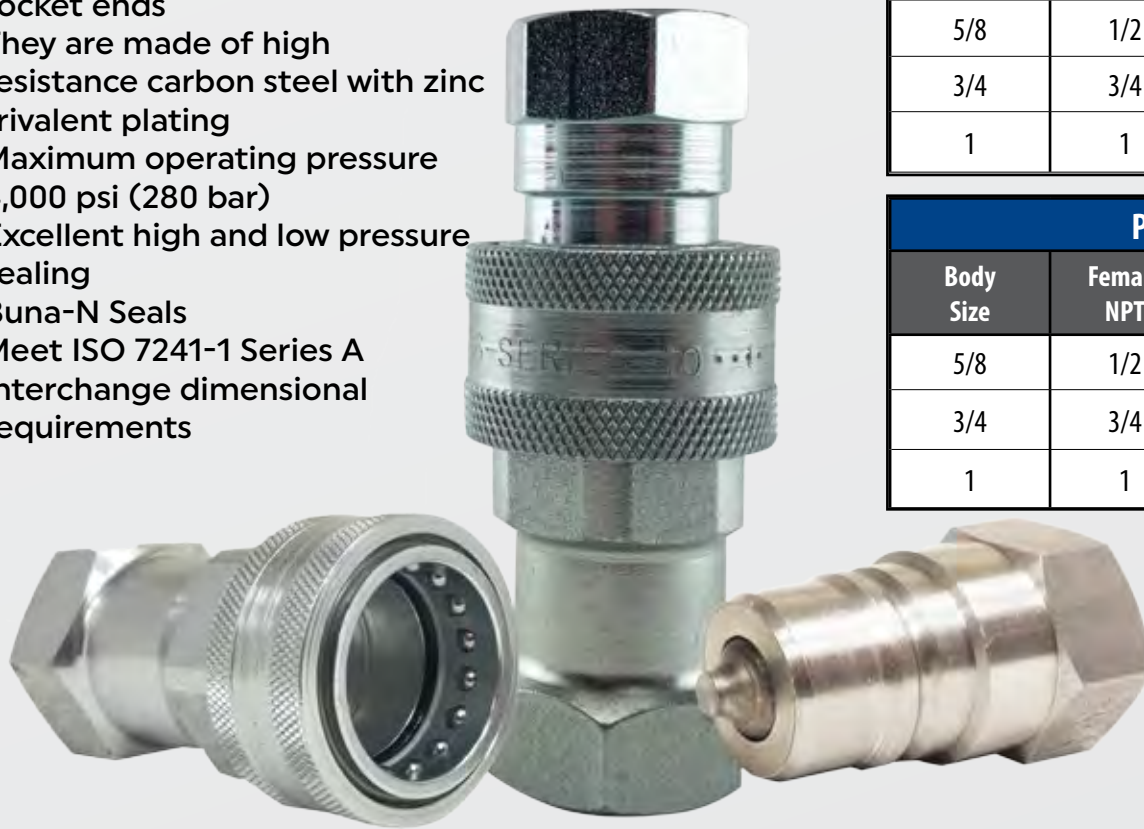


These compounds may be used as a lubricant with incidental food contact for use in official establishments operating under the Federal meat and poultry products inspection program.

5600 Series Hydraulic Quick Coupler

These quick couplers are the ones we added for Aggreko. Aggreko has them spec'd-in for fuel connections on their generators and HVAC units.

- These are hydraulic couplers with valves on both the plug and socket ends
- They are made of high resistance carbon steel with zinc trivalent plating
- Maximum operating pressure 4,000 psi (280 bar)
- Excellent high and low pressure sealing
- Buna-N Seals
- Meet ISO 7241-1 Series A Interchange dimensional requirements



MADE IN U.S.A.



Typical applications:

- Hydraulic fluid transfer
- Agricultural equipment
- Construction equipment
- Snow plows
- Dump trailers
- Maintenance vehicles
- In-plant machinery

SOCKET		
Body Size	Female NPT	Part No.
5/8	1/2	5602-8-10S
3/4	3/4	5602-12-12S
1	1	5602-16-16S

PLUG		
Body Size	Female NPT	Part No.
5/8	1/2	5601-8-10S
3/4	3/4	5601-12-12S
1	1	5601-16-16S

WHAT MAKES HI-LINE DIFFERENT

- Mobile Industrial Hardware Stores
- Nation wide inventory management services
- "No questions asked" product return policy
- American made products 
- 24/7/365 Availability
- On-site product training
- Inventory management customized to your specific tions & guidelines
- Parts area optimization
- Local representatives that learn your business

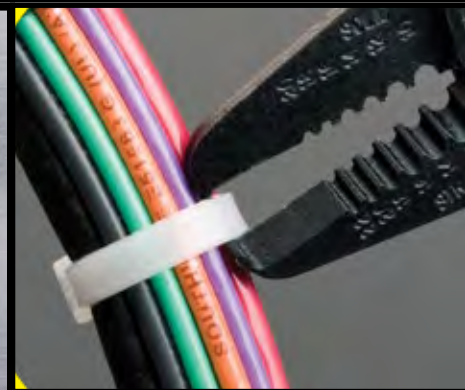


New Products

SUPPLEMENTAL CATALOG

Volume III

www.hi-line.com | 1.800.944.5463



PSUP2018



New Products

SUPPLEMENTAL CATALOG

Volume III

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2" HP Sait-Lok Abrasive Discs	736
3" HP Sait-Lok Abrasive Discs	736
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2" Premium Sait-Lok Abrasive Discs	737
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PSUP2018





HP Sait-Lok Abrasive Disc Assortment

- Includes Gravity Feed Rack CAB0013
- High performance Zirconium grain
- Triple laminated construction for severe pressure applications where conventional laminated discs have too much flex
- Excellent for edge grinding, deburring, and weld preparation and removal
- Extremely fast stock removal and long life
- For use on ferrous & non-ferrous metals including stainless steel & high tensile alloys



CAB0013

2" HP Sait-Lok Abrasive Disc Assortment			Part No. SL2K
Diameter	Grade / Grit	Part No.	Quantity
2"	24	UA55420	5
	36	UA55421	5
	50	UA55422	5
	60	UA55423	5
	80	UA55424	5
	Back-up Pad	UA95267	1



UA55422

3" HP Sait-Lok Abrasive Disc Assortment			Part No. SL3K
Diameter	Grade / Grit	Part No.	Quantity
3"	24	UA55430	5
	36	UA55431	5
	50	UA55432	5
	60	UA55433	5
	80	UA55434	5
	Back-up Pad	UA95268	1





Premium Sait-Lok Abrasive Disc Assortment

- Includes Gravity Feed Rack CAB0013
- Premium zirconium grain with grinding aid
- Cooling agents for cool cutting and long life
- Very fast stock removal, no discoloration
- Easy disc changes by twisting to unlock backing pad
- For use on ferrous & non-ferrous metals including stainless steel, titanium & high tensile steel



CAB0013

1-1/2" Premium Sait-Lok Abrasive Disc Assortment			Part No. SLP1.5K
Diameter	Grade / Grit	Part No.	Quantity
1-1/2"	36	UA56215	5
	40	UA56216	5
	50	UA56217	5
	60	UA56218	5
	80	UA56219	5
	Back-up Pad	UA95166	1

2" Premium Sait-Lok Abrasive Disc Assortment			Part No. SLP2K
Diameter	Grade / Grit	Part No.	Quantity
2"	36	UA56222	5
	40	UA56223	5
	50	UA56224	5
	60	UA56225	5
	80	UA56226	5
	Back-up Pad	UA95267	1

3" Premium Sait-Lok Abrasive Disc Assortment			Part No. SLP3K
Diameter	Grade / Grit	Part No.	Quantity
3"	36	UA56229	5
	40	UA56230	5
	50	UA56231	5
	60	UA56232	5
	80	UA56233	5
	Back-up Pad	UA95268	1



UA56223



1-800-944-5463 | www.hi-line.com

Non-Woven Sait-Lok Abrasive Disc Assortment

- Includes Gravity Feed Rack CAB0013
- General purpose
- Excellent for blending surface imperfections, coated abrasive burrs, final finishing, and preparation prior to coating
- Both for use on ferrous & non-ferrous metals including stainless steel & aluminum



CAB0013

Non-Woven Sait-Lok Abrasive Disc Assortment			Part No. SLNWDK
Diameter	Grade	Part No.	Quantity
2"	Medium	UA77672	5
	Very Fine	UA77675	5
3"	Medium	UA77682	5
	Very Fine	UA77685	5
2"	Back-up Pad	UA95267	1
3"	Back-up Pad	UA95268	1



UA77682

Shield Retainer Kit

Part No. **DSC8117**

- Commonly referred to as "Christmas Trees"
- A small assortment for general purpose repairs on trucks
- 6.30mm-10mm hole size black nylon
- 6-3/4" x 11" plastic tray
- 200 Total pieces. Contains 6 different sizes



Shield Retainer Assortment DSC8117					
1/4" (6.3mm) Hole size Panel range: .095"-.540"	5/16" (7mm) Hole size Panel Range: .125"-.310"	5/16" (7.8mm) Hole size Panel Range: .78"-.490"	23/64" (9mm) Hole size Panel Range: .60"-.510"	3/8" (9.5mm) Hole size Panel Range: .115"-.565"	23/64" (10mm) Hole size Panel Range: .40"-.787"

Sold as a kit only - individual parts are not stocked



BULBS



Miniature Bulb

Part No. **LB1142**

- Industry No.: 1142
- Design Volts: 12.8
- Max A.O.L.: 1.04"
- AVG. Life Hrs.: 1000



CABLE TIES

Double Loop Cable Tie W/ Built-In Mount



- Secures two separate bundles of wire, a pair of hoses or tubing in parallel
- Protect from chafing between the pair
- Mid-length mounting block allows for easy attachment to equipment
- Mounting hole fits a 1/4" screw



Double Loop Cable Tie

L (in.)	W (in.)	Min. Bundle Dia. (in.)	Max. Bundle Dia. (in.)	Tensile Strength (lb.)	Color	Part No.
13.5	0.5	0.5	1.3	150	Black	CT15DLMB
19.8	0.5	0.5	2.3			CT20DLMB





1-800-944-5463 | www.hi-line.com

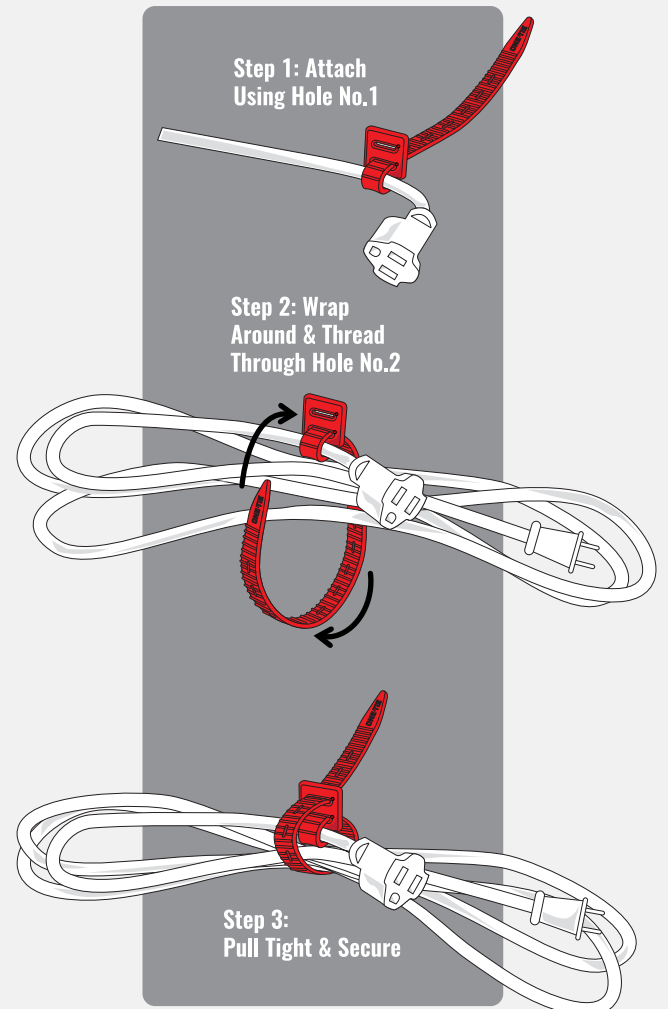


One-Tie Reusable Ties

- Strap, Bundle, Organize
- 2.71 Bazillion uses!
- Color: Red
- Material: high strength polymer
- UV & water resistant



Length (in.)	Width (in.)	Thickness (in.)	Part No.
8	0.03	0.03	CTRU8RD
12			CTRU12RD
14			CTRU14RD
20	0.05	0.03	CTRU20RD
26			CTRU26RD
32			CTRU32RD





CABINETY



Flammable Safety Cabinets

Gallon Capacity	Overall Dim. W X D X H (In.)	Comes W/ Shelves	Optional Additional Shelf Part No.	Weight (Lbs.)	Cabinet Part No.
12	23 x 18 x 36-3/8	1	FSCAB1419	167	FSCAB12S
30	43 x 18 X 45-3/8	1	FSCAB1439	309	FSCAB30S
45	43 x 18 X 66-3/8	2	FSCAB1439	423	FSCAB45S

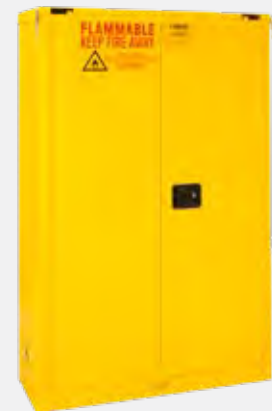
*Please note: These items will be dropped shipped from the manufacturer.



FSCAB12S



FSCAB30S



FSCAB45S

Fusible link provided with self closing models - Melts to activate self close at 165°

10 Year Limited Mfg. Warranty

All cabinets have a **self closing** mechanism that is separate from storage area. Doors are indexed to close and latch.

16 Gauge double walled steel construction with 1-1/2" of space between walls.

Wire welded construction throughout the cabinet

Durable safety yellow, high gloss, polyurethane powder coat paint

Bunged air vents with flame arrestors on each side of cabinet

Leveling feet visible under cabinet

MIG welded continuous hinges

2" Deep leak proof sump

2" Wide louvered panels support shelves

High quality lockable flush mount handle.



3 point lockable latching system

Electrical ground in side of cabinet

*Dispensing cans for display only



Tube Rack

Part No. **CAB0016**



- For storage of plastic tubing
- Also good for low pressure, small dia. hose, small gauge battery cable, wire loom & copper tubing
- Mounting holes on top & bottom
- Fixed dividers
- Tubing not included

Dimensions Overall	W x D x H (in.) Openings	Part No.
20x15-3/4x15	19-1/8 x 15-3/4 x 4-11/32	CAB0016



Electrical Tape Dispenser Gravity Feed

Part No. **CAB0015**



- Gravity feed design makes this a great way to store and organize your electrical tape
- Hinged top cover keeps dust out
- Keyhole slots for wall mounting
- Dimensions: 11.25" H x 3.75" W x 3.75" D



CHEMICALS

Wax Stick

Part No. **AS33W**

A less messy way to lubricate your drill bits. White, solid, waxy stick in a push-up tube (1 lb.)

Use on:

- Drill Bits
- Taps
- Saw Blades
- Grinding wheels



AS33W



Coil Cleaner

Part No. **AS95**



Removes dirt, grime, soil deposits & contaminants on evaporator and condenser coils.

- Penetrating with delaying expanding foam action
- Powerful pin-point spray
- Dual Quat* formula deodorizes coils and drain pans
- Fresh citrus scent

Use on:

- HVAC units
- Fan Blades
- Vehicle radiators
- Small air cooled equipment
- Metal filters

(*Quaternary ammonium chloride (quat) is an active ingredient used in disinfectants)

Additional Cutting Aids:



AS33



AS33C



AS33L



Dow Corning® Silicones - Food Grade 3 oz Tubes



Dow Corning® 732

Multi-Purpose RTV silicone adhesive/sealant

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Non-sag, paste consistency
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion to many substrates
- Stable and flexible from -60°C to +180°C (-76°F to +356°F), with short peaks up to +205°C (401°F)
- Black version: stable and flexible from -60°C to +205°C (-76°F to +401°F), with short peaks up to +230°C (446°F)
- Excellent dielectric properties
- Complies with MIL-A-46106
- Complies with FDA 177.2600
- NSF standards 51 & 61
- UL Listed



Color	Part No.
Clear	CHM0010
White	CHM0011
Silver	CHM0012
Black	CHM0013

Dow Corning® 736

High-temperature silicone adhesive/sealant

- May be used in applications with continuous exposure to 500°F (260°C) and intermittent exposure to 600°F (315°C)
- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Non-sag, paste consistency
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion to many substrates
- Excellent dielectric properties
- Complies with MIL-A-46106A
- Complies with FDA 177.2600
- NSF standards 51
- UL Listed



Color	Part No.
Red	CHM0014

The high temperature properties of this sealant make it ideally suited for:

- Sealing and encapsulating heating elements in appliances
- Aerospace gasketing
- Moving oven belts
- Industrial ovens
- Bag filters on smoke stacks
- Other critical bonding, sealing, potting, encapsulating and protective coatings
- where parts must perform at high temperatures



CHEMICALS



Vandal

Part No. **AS96**



Graffiti Remover Gel Spray

- Removes spray paint, crayon, lipstick, ink and other vandal marks
- Ideal for removing tape marks, scuff marks and waxes
- Works on brick, tile, steel enamel, glass, porcelain, Formica® and many other surfaces
- Gel formula clings to vertical surfaces for longer penetration time
- Great for school districts, public works, trucking firms, D.O.T.

Salt Off

Part No. **AS97**

- Removes salt stains from carpets and mats
- Built-in brush cap loosens salt
- Removes stubborn salt stains from any fabric quickly and easily
- Great for use on carpets and mats in your vehicle and office

**Built-in
brush cap
loosens
salt**





Motor Assembly Lube

Part No. **CHG10**



- White light-bodied grease
- Zinc-oxide anti-wear additive especially for motor & transmission rebuilding
- Prevents "dry start"
- Provides necessary lubrication during initial startup before the motor oil has circulated
- Protects freshly machined parts from rust and corrosion
- Lubriplate No. 105, 10 oz. tube



Di-Electric Grease

Part No. **CHG12**

Pressurized Tube with Select-a-Bead nozzle®



- Non-curing silicone compound used for electrical sealing, lubricating, protecting and insulating
- Waterproofs electrical connections and components.
- Improves electrical performance in adverse weather conditions
- Opaque white gel
- Di-electric strength >450 Volts/mil
- Food Grade H1

Loctite SF 7649 Anaerobic Primer

Part No. **CHM0015**



LOCTITE® SF 7649™ MIL-SPEC Primer decreases the set-up time of LOCTITE® brand threadlockers and increases breakaway torque on most fastener surfaces. This anaerobic primer allows application of threadlockers in cold weather. Contains no ozone-depleting compounds. Mil Spec: Mil-S-22473E Grade N Form R. ASTM-D5363 approved.

- Increases cure speed on passive and inactive surfaces
- For large bond gaps
- For low-temperature curing (< 5°C)
- Color: light green
- Also known as LOCTITE® 7649
- 1.75 oz. bottle
- Brush top and Spray top included





ELECTRICAL



Crimp N Seal Flag Terminals



KRN676



KTN666



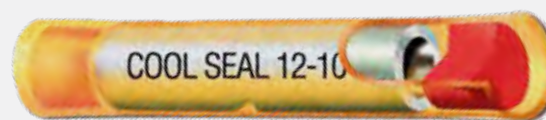
KRN686

AWG	Tab Width	Part No.
22 - 18	.187	KRN676
22 - 18	.250	KTN646
16 - 14	.187	KRN686
16 - 14	.250	KTN656
12 - 10	.250	KTN666

Cool Seal



- Make sealed connections without heat -just strip & crimp
- Environmentally sealed connections using anaerobic technology
- Seals out moisture



Butt Splices	
AWG	Part No.
22-18	CSBC2218
16-14	CSBC1614
12-10	CSBC1210

Step-Down Butt Splices	
AWG	Part No.
22-18 to 16-14	CSSD2214
16-14 to 12-10	CSSD1610

H.D. Lug/Starter Terminal Insulators		
AWG	Color	Part No.
4	Red	CLI4RD
	Black	CLI4BK
1 & 2	Red	CLI2RD
	Black	CLI2BK
1/0 - 2/0	Red	CLI20RD
	Black	CLI20BK
3/0	Red	CLI30RD
	Black	CLI30BK

Heavy Duty Starter Terminal Protectors



- Protects alternator and electrical systems from shorts
- Reduces the risk of battery explosion caused by sparks
- High temperature PVC construction rated at 190° F (88° C)
- Color coded for easy polarity identification
- Conforms to SAE J1128 dielectric specifications —meets USCG requirements



CLI20BK



CLI20RD



Battery Terminals OEM

Auto OEM Style

- OEM style replacement
- Ideal for recreational, light, and medium duty applications
- Tin plated copper alloy resists corrosion
- Polarity specific to exact fit on battery post
- Two sizes handle 8 to 1 gauge cable
- B-Crimp
- Lead Free



AWG	Part No.	
	Positive	Negative
6 & 4	BTOE64P	BTOE64N
2 & 1	BTOE21P	BTOE21N



Auto OEM Style With Auxiliary Takeoff

- OEM style replacement
- Ideal for recreational, light, and medium duty applications
- Tin plated copper alloy resists corrosion
- Universal polarity fits negative or positive
- Suitable for use with 8 to 1 gauge cable
- Lead Free
- Attach cables with a 5/16" ring terminal



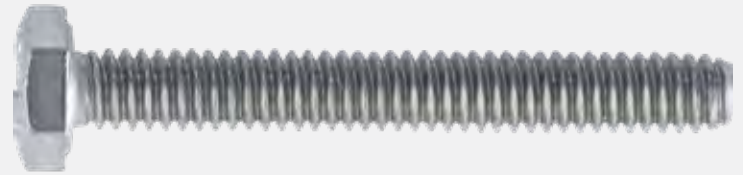
AWG	Part No.
8 - 1	BTOE81A





Tap Bolts

- 18-8 Stainless steel
- Fully threaded screws - without shanks



Dia. / T.P.I. (in.)	Length (in.)	Part No.	Dia. / T.P.I. (in.)	Length (in.)	Part No.	Dia. / T.P.I. (in.)	Length (in.)	Part No.
1/4-20	1-1/4	462G114	3/8-16	1-1/2	462I112	5/8-11	2	462M2
	1-1/2	462G112		1-3/4	462I134		2-1/2	462M212
	1-3/4	462G134		2	462I2		2-3/4	462M234
	2	462G2		2-1/4	462I214		3	462M3
	2-1/2	462G212		2-1/2	462I212		3-1/4	462M314
	3	462G3		2-3/4	462I234		3-1/2	462M312
	3-1/2	462G312		3	462I3		4	462M4
	4	462G4		3-1/4	462I314		4-1/2	462M412
5/16-18	1-1/4	462H114		3-1/2	462I312	5	462M5	
	1-1/2	462H112		4	462I4	3/4-12	2-1/2	462N212
	1-3/4	462H134	5	462I5	2-3/4		462N234	
	2	462H2	1/2-13	1-3/4	462K134		3	462N3
	2-1/4	462H214		2	462K2		3-1/2	462N312
	2-1/2	462H212		2-1/2	462K212		4	462N4
	3	462H3		3	462K3		4-1/2	462N412
	3-1/2	462H312		3-1/2	462K312		5	462N5
4	462H4	4		462K4	5-1/2		462N512	
		4-1/2		462K412	6	462N6		
		5		462K5				

SNAPTOGGLE® Heavy Duty Toggle Bolts by TOGGLER®

Screw Size Dia. /TPI (in.)	Drill Dia. (in.)	Grip Range (in.)	Part No.
3/16 - 24	1/2	3/8 - 3-5/8	STB316
1/4 -20	1/2	3/8 - 3-5/8	STB14
3/8 -16	3/4	3/8 - 2-1/2	STB38
1/2 -13	3/4	3/8 - 2-1/2	STB12

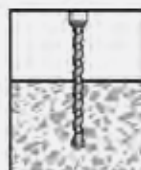




Drop-In Anchors

- Female-threaded Concrete Anchors
- Zinc plated
- Often used for overhead applications
- Anchor's internal plug expands in four directions to hold the anchor firmly
- When installed, anchors sit flush with the surface

Size (in.)	Installation Tool No.	Anchor Part No.
1/4-20	DIAT14	DIA14
3/8-16	DIAT38	DIA38
1/2-13	DIAT12	DIA12
5/8-11	DIAT58	DIA58



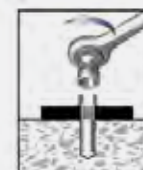
Drill a hole into the base material that suits the diameter and embedment depth of the Drop-in anchor being used.



Blow out dust and loose materials



Insert Drop-in anchor and using a setting tool, drive into the anchor until the shoulder of the tool is flush with the anchor.



Insert bolt and using a compatible fixing tool tighten the bolt by applying torque to the head of the fastener.

Dia./T.P.I. (In.)	Length (In.)	Part No.
1/4-20	1	618G1
	1-1/4	618G114
	1-1/2	618G112
	2	618G2
	2-1/4	618G214
	2-1/2	618G212
	3	618G3
5/16-18	2	618H2
	2-1/4	618H214
	2-1/2	618H212
	3	618H3

Floorboard Screws

- TORX Drive Flat Head
- F-Point, Thread-Forming Screws for Joining Wood to Metal
- Best screw for truck trailer floor board repairs & installation
- Black-phosphate finish



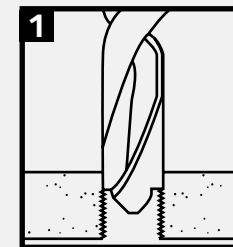


Keyserts® - Thread Repair Inserts

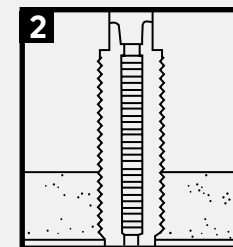
Carbon Keyserts® Thin Wall Course				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
10-24	I	5/16-18	569T1	569E
1/4-20	Q	3/8-16	569T2	569G
5/16-18	X	7/16-14	569T3	569H
3/8-16	29/64	1/2-13	569T4	569I
7/16-14	33/64	9/16-12	569T4	569J
1/2-13	37/64	5/8-11	569T5	569K



Carbon Keyserts® Thin Wall Fine				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
10-32	I	5/16-18	569T1	569EF
1/4-28	Q	3/8-16	569T2	569GF
5/16-24	X	7/16-14	569T3	569HF
3/8-24	29/64	1/2-13	569T4	569IF
7/16-20	33/64	9/16-12	569T4	569JF
1/2-20	37/64	5/8-11	569T5	569KF

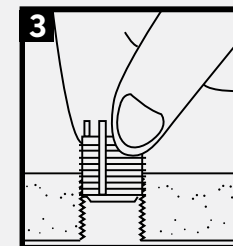


1 Drill out old threads with a standard drill.



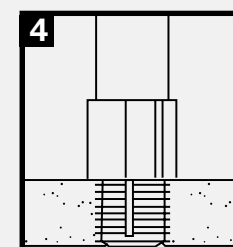
2 Tap new threads with a standard tap.

Stainless Keyserts® Thin Wall Course				
Size	Drill Size	Tap Size	Installation tool Part No.	Part No.
10-24	I	5/16-18	569T1	569ESS
1/4-20	Q	3/8-16	569T2	569GSS
5/16-18	X	7/16-14	569T3	569HSS
3/8-16	29/64	1/2-13	569T4	569ISS
7/16-14	33/64	9/16-12	569T4	569JSS
1/2-13	37/64	5/8-11	569T5	569KSS



3 Screw in the insert until slightly below surface.

Stainless Keyserts® Thin Wall Fine				
Size	Drill Size	Tap Size	Installation tool Part No.	Part No.
10-32	I	5/16-18	569T1	569EFSS
1/4-28	Q	3/8-16	569T2	569GFSS
5/16-24	X	7/16-14	569T3	569HFSS
3/8-24	29/64	1/2-13	569T4	569IFSS
7/16-20	33/64	9/16-12	569T4	569JFSS
1/2-20	37/64	5/8-11	569T5	569KFSS



4 Drive keys down with several hammer taps on the proper installation tool.



Keyserts® - Thread Repair

Carbon Keyserts® Thin Wall Metric				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
M5-.80	H	M8-1.25	569T1	571M580
M6-1.00	S	M10-1.25	569T2	571M6100
M8-1.00	27/64	M12-1.25	569T3	571M8100
M8-1.25	27/64	M12-1.25	569T3	571M8125
M10-1.25	1/2	M14-1.5	569T4	571M10125
M10-1.50	1/2	M14-1.5	569T4	571M10150
M12-1.25	37/64	M16-1.5	569T5	571M12125
M12-1.75	37/64	M16-1.5	569T5	571M12175

Stainless Keyserts® Thin Wall Metric				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
M5-.80	H	M8-1.25	569T1	571M580SS
M6-1.00	S	M10-1.25	569T2	571M6100SS
M8-1.00	27/64	M12-1.25	569T3	571M8100SS
M8-1.25	27/64	M12-1.25	569T3	571M8125SS
M10-1.25	1/2	M14-1.5	569T4	571M10125SS
M10-1.50	1/2	M14-1.5	569T4	571M10150SS
M12-1.25	37/64	M16-1.5	569T5	571M12125SS
M12-1.75	37/64	M16-1.5	569T5	571M12175SS

Carbon Keyserts® Heavy Duty Course				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
10-24	Q	3/8-16	569T1	570E
1/4-20	X	7/16-14	569T2	570G
5/16-18	29/64	1/2-13	569T3	570H
3/8-16	33/64	9/16-12	569T4	570I
7/16-14	37/64	5/8-11	569T4	570J
1/2-13	45/64	3/4-16	569T5	570K

Carbon Keyserts® Heavy Duty Fine				
Size	Drill Size	Tap Size	Installation Tool Part No.	Part No.
10-32	Q	3/8-16	569T1	570EF
1/4-28	X	7/16-14	569T2	570GF
5/16-24	29/64	1/2-13	569T3	570HF
3/8-24	33/64	9/16-12	569T4	570IF
7/16-20	37/64	5/8-11	569T4	570JF
1/2-20	45/64	3/4-16	569T5	570KF

KEYSERT® INSTALLATION TOOLS	
569T1	#10, M5
569T2	1/4, M6
569T3	5/16, M8
569T4	3/8, 7/16, M10
569T5	1/2, M12



FASTENERS

Eye Bolts - Shoulder Pattern

- Drop Forged Steel
- Fully Threaded



Eye Bolts - Inch					
Shank Dia./T.P.I.	Shank Length	Eye I.D.	Eye O.D.	Rated Capacity (lbs.)*	Part No.
1/4-20	1	11/16	1-3/16	500	572G
5/16-18	1-1/8	7/8	1-7/16	900	572H
3/8-16	1-1/4	1	1-21/32	1,300	572I
1/2-13	1-1/2	1-3/16	2-1/16	2,400	572K
5/8-11	1-3/4	1-3/8	2-1/2	4,000	572M
3/4-10	2	1-1/2	2-13/16	5,000	572N
7/8-9	2-1/4	1-11/16	3-1/4	7,000	572O
1-8	2-1/2	1-13/16	3-9/16	9,000	572P

Eye Bolts - Metric					
Shank Dia.- Pitch	Shank Length	Eye I.D.	Eye O.D.	Rated Capacity (Kgs.)*	Part No.
M6-1.0	25.4	19	30	210	5736
M8-1.25	31.7	25	43	500	5738
M10-1.50	35	27	46	740	57310
M12-1.75	38	30	54	1,030	57312
M14-2.0	41.1	33	58	1,600	57314
M16-2.0	44.5	35	65	1,600	57316
M20-2.5	57	41	81	2,860	57320
M24-3.0	76	55	112.7	3,850	57324
M30-3.5	76	55	112.7	6,400	57330

*Angular lifts significantly reduce Shoulder Eyebolt Rated Capacities- approx. 1/4th of 0° rating at 45 or less. Shoulder Eyebolts should not be used for angular lifts greater than 45°



Galvanized - S.A.E. Grade 2 / ASTM A307A Hex Head Cap Screws

- U.S.S.
- Hot Dip Galvanized per ASTM A153 / ASTM F2329



Dia./T.P.I. (In.)	Length (In.)	Part No.
1/4-20	1/2	555G12
	3/4	555G34
	1	555G1
	1-1/4	555G114
	1-1/2	555G112
	1-3/4	555G134
	2	555G2
	2-1/4	555G214
	2-1/2	555G212
	2-3/4	555G234
	3	555G3
	3-1/2	555G312
5/16-18	1/2	555H12
	3/4	555H34
	1	555H1
	1-1/4	555H114
	1-1/2	555H112
	1-3/4	555H134
	2	555H2
	2-1/4	555H214
	2-1/2	555H212
	3	555H3
	3-1/4	555H314
	3-1/2	555H312
4	555H4	

Dia./T.P.I. (In.)	Length (In.)	Part No.
3/8-16	3/4	555I34
	1	555I1
	1-1/4	555I114
	1-1/2	555I112
	1-3/4	555I134
	2	555I2
	2-1/4	555I214
	2-1/2	555I212
	2-3/4	555I234
	3	555I3
	3-1/4	555I314
	3-1/2	555I312
1/2-13	3-3/4	555I334
	4	555I4
	3/4	555K34
	1	555K1
	1-1/4	555K114
	1-1/2	555K112
	1-3/4	555K134
	2	555K2
	2-1/4	555K214
	2-1/2	555K212
	2-3/4	555K234
	3	555K3
3-1/4	555K314	
3-1/2	555K312	
4	555K4	

Nuts

- Grade 2 - Galvanized
- U.S.S. Threads



Dia./T.P.I. (In.)	Part No.
1/4-20	552G
5/16-18	552H
3/8-16	552I
1/2-13	552K

Washers

- Grade 2 - Galvanized
- U.S.S.



Dia. (In.)	Part No.
1/4	553G
5/16	553H
3/8	553I
1/2	553K

Lock Washers

- Grade 2 - Galvanized
- U.S.S.



Dia. (In.)	Part No.
1/4	551G
5/16	551H
3/8	551I
1/2	551K



Phillips Pan Head Machine Screws

- DIN 7985
- Zinc Plated



Dia./Pitch (mm)	Length (mm)	Part No.
M3 - .50	6	893506
	8	893508
	10	8935010
	12	8935012
	16	8935016
	18	8935018
	20	8935020
	25	8935025
	30	8935030
	35	8935035
M4 - .70	6	894706
	8	894708
	10	8947010
	12	8947012
	16	8947016
	18	8947018
	20	8947020
	25	8947025
	30	8947030
	35	8947035
40	8947040	
45	8947045	

Dia./Pitch (mm)	Length (mm)	Part No.
M5 - .80	6	895806
	8	895808
	10	8958010
	12	8958012
	16	8958016
	20	8958020
	25	8958025
	30	8958030
	35	8958035
	40	8958040
M6 - 1.0	45	8958045
	50	8958050
	8	896108
	10	8961010
	12	8961012
	16	8961016
	20	8961020
	25	8961025
	30	8961030
	35	8961035
40	8961040	
45	8961045	
50	8961050	
60	8961060	

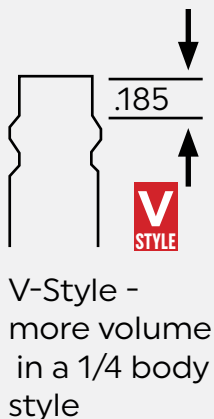
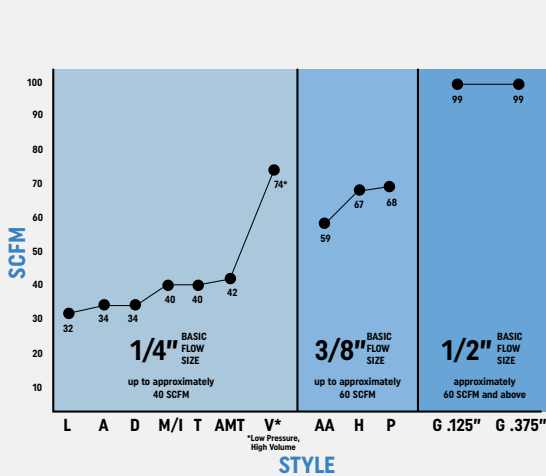


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V-Style Quick Couplers



- High Volume - 32 vs. 74 SCFM
- Low Pressure - 300 PSI Max.
- Will accept M-Style and A-Style plugs but to retain maximum flow use V-Style Plugs



Brass Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	764	FLP0102
	3/8	766	FLP0103
NPT Male	1/4	765	FLP0104
	3/8	767	FLP0105



Brass Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	761	FLP0106
	3/8	763	FLP0107
NPT Male	1/4	760	FLP0108
	3/8	762	FLP0109



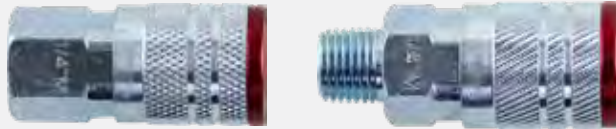
Steel Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	761-1 / S-761-1	FLP0110
	3/8	763-1 / S-763-1	FLP0111
NPT Male	1/4	760-1 / S-760-1	FLP0112
	3/8	762-1 / S-762-1	FLP0113



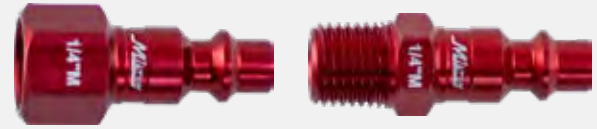


Quick Couplers
Color Fit Color Connect System *MILTON*

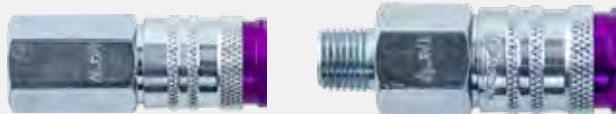
- A color coded system that allows for easy matching of couplers and plugs
- Solves problem of potential cross contaminating different airlines
- Dedicating certain colors to different airlines, eliminates the risk of mixing a lubricated line with a dry air line
- Highly durable anodizing color



M-Style/Red Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	715MC	FLP0114
NPT Male	1/4	716MC	FLP0115



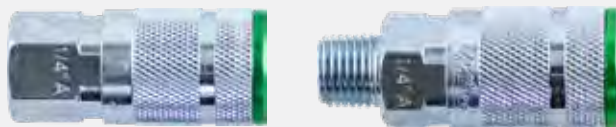
M-Style/Red Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	728MC	FLP0116
NPT Male	1/4	727MC	FLP0117



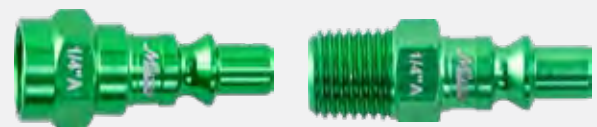
V-Style/Purple Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	764VC	FLP0118
NPT Male	1/4	765VC	FLP0119



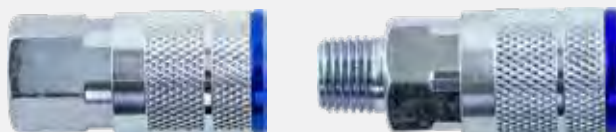
V-Style/Purple Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	761VC-20	FLP0120
NPT Male	1/4	760VC-20	FLP0121



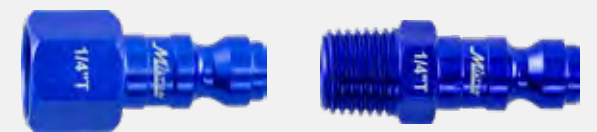
A-Style / Green Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	775AC	FLP0122
NPT Male	1/4	776AC	FLP0123



A-Style / Green Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	778AC-20	FLP0124
NPT Male	1/4	777AC-20	FLP0125



T-Style / Blue Couplers			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	785TC	FLP0126
NPT Male	1/4	786TC	FLP0127



T-Style / Blue Plugs			
Connection Type	Connection Size	Milton Part No.	Hi-Line Part No.
NPT Female	1/4	784TC-20	FLP0128
NPT Male	1/4	783TC-20	FLP0129



Dust caps & Plugs
For 5600 Series hydraulic quick couplers



Dust Caps		
Dash Size	Inch Size	Part No.
-6	3/8	5657-6
-10	5/8	5657-10
-12	3/4	5657-12
-16	1	5657-16



Dust Plugs		
Dash Size	Inch Size	Part No.
-6	3/8	5659-6
-10	5/8	5659-10
-12	3/4	5659-12
-16	1	5659-16



5600 Series Hydraulic Quick Couplers



Plug		
Body Size	Female NPT	Part No.
3/8	3/8	5602-6-6S
5/8	1/2	5602-8-10S
3/4	3/4	5602-12-12S
1	1	5602-16-16S

Socket		
Body Size	Female NPT	Part No.
3/8	3/8	5601-6-6S
5/8	1/2	5601-8-10S
3/4	3/4	5601-12-12S
1	1	5601-16-16S

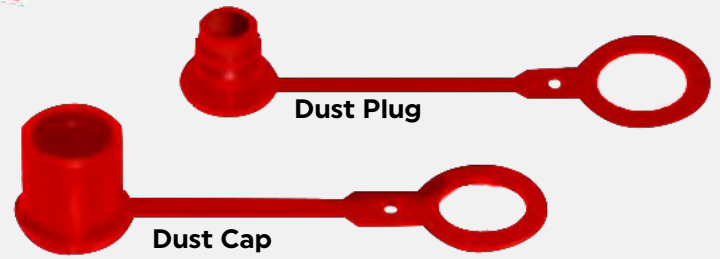




HK Series Quick Disconnects



- Brass
- ISO 7241-1 B Interchange
- Brass body with stainless steel springs for high corrosion resistance and fluid compatibility
- Buna-N seals
- Dust caps and plugs are red vinyl



Sockets			
Body Size	Female Pipe	Dust Plug Part No.	Socket Part No.
1/2	1/2	PSDC4HKRD	B4HP26
3/4	3/4	PSDC6HKRD	B6HP31
1	1	PSDC8HKRD	B8HP36



B6HP31

Plugs			
Body Size	Female Pipe	Dust Cap Part No.	Plug Part No.
1/2	1/2	PPDC4HKRD	B4KP26
3/4	3/4	PPDC6HKRD	B6KP31
1	1	PPDC8HKRD	B8KP36



B6KP31

316 Stainless Steel JIC 37° Male Connectors

Tube	Pipe	Part No.
1/4	1/8	5217x4
1/4	1/4	5217x4x4
5/16	1/4	5217x5x4
3/8	1/4	5217x6
3/8	3/8	5217x6x6
3/4	3/4	5217x12
1	1	5217x16





Constant Torque Clamps

- A worm-drive clamp that automatically increases & decreases diameter due to changes in temperature
- Extended inner liner to allow use with silicone hoses
- 300 series stainless steel band



SAE Clamp #	Range (in.)	Band/Screw	Part No.
10	9/16 - 1-1/16	9/16" Band, 5/16" Screw	HCB110
12	11/16 - 1-1/4		HCB112
16	13/16 - 1-1/2		HCB116
20	13/16 - 1-3/4		HCB120
24	1-1/16 - 2		HCB124
262	1-3/4 - 2-5/8	5/8" Band, 3/8" Screw	HCB125
312	2-1/4 - 3-1/8		HCB130
362	2-3/4 - 3-5/8		HCB135
412	3-1/4 - 4-1/8		HCB140
462	3-3/4 - 4-5/8		HCB145
512	4-1/4 - 5-1/8		HCB150
562	4-3/4 - 5-5/8		HCB155
612	5-1/4 - 6-1/8		HCB160
662	5-3/4 - 6-5/8		HCB165
712	6-1/4 - 7-1/8		HCB170
762	6-3/4 - 7-5/8		HCB175
812	7-1/4 - 8-1/8		HCB180
862	7-3/4 - 8-5/8		HCB185
912	8-1/4 - 9-1/8		HCB190



Hose Barb Tee

- For low pressure shop air lines
- Use with hose clamp
- Not for push-on (Barb-tite) hoses
- Brass construction

Dash Size	Inch Size	Part No.
-4	1/4	10504BT04
-5	5/16	10505BT05
-6	3/8	10506BT06
-8	1/2	10508BT08



Ground Joint Union

- Class 3000



Pipe Size	Part No.
1/8	FS9018
1/4	FS9014
3/8	FS9038
1/2	FS9012
3/4	FS9034
1	FS901
1-1/4	FS90114
1-1/2	FS90112
2	FS902



Stainless Steel Ball Valves

- 316 Stainless
- 1,000 lb.
- Female to Female pipe thread ports

FPT	L (in.)	H (in.)	Part No.
1/4	2	2.3	BVSSFF04
3/8	2	2.3	BVSSFF06
1/2	2.28	2.3	BVSSFF08
3/4	2.58	2.5	BVSSFF12
1	3.1	3.07	BVSSFF16



Earsoft Grippers Corded Earplugs



Part No. **EPF2S**

- Soft, pliable foam offers comfort for wearing over an extended time
- Unique grip rings help create a soft, noise-blocking seal
- Earplug design offers effective hearing protection for people with larger ear canals
- Slow recovery foam effectively seals the ear canal and provides reliable hearing protection



Cut-Resistant Gloves

- Made with durable 10 gauge DuPont™ Kevlar® and synthetic fibers
- High comfort level
- Blue latex palm & fingers
- ANSI CE Cut score 4

Size	Part No.
Small	FTK4S
Medium	FTK4M
Large	FTK4L
Extra-large	FTK4XL





First Aid Kit

- Class B Kit designed for high risk work zones
- ANSI Z308.1-2015 compliant
- Metal Case w/ weatherproof seal
- Ideal for high risk and/or complex work areas
- Wall mountable/portable

Description	Part No.
Complete Kit with case	STY0016
Refill- complete w/o case	STY0017



Kit contents:

- 1" x 3" Plastic Certi-Strips (16/unit)
- Triangular Bandage with Pins (3/unit)
- 3" x 3" Certi-Gauze Pads (4/unit)
- 5" x 7" Antiseptic BZK Towelettes (10/unit)
- Hand Sanitizer (10/unit)
- 1/2" x 2-1/2 yd. Certi-Tape (2/unit)
- Certi-Tape Eye Pads (8/unit)
- Latex Free Tourniquet with Scissors (3/unit)
- Size Large Powder Free Nitrile Gloves (1)
- Certi-Sporyn Antibiotic Cream (25/box)
- Certi-Burn Cream (25/box)
- CPR Protector (1)
- 4" x 4" Burn Dressing (1)
- 5" x 7" Certi-Cool Junior Cold Pack (1)
- 4 oz. Eye Wash (1)
- 2" x 6 yd. Certi-Gauze Roll (1)
- 4" x 6 yd. Certi-Gauze Roll (1)
- 5" x 9" Compress Trauma Pad (1)
- 36" Sam Splint (1)
- and a First Aid Facts Guide.



Tradesman Pro™ Tablet Backpack

Part No. **KL55603**

- Fits 10.1-Inch tablets with protective covers
- Separate compartment with padded pouch protects tablet from tools
- Multiple pockets sized specifically to fit all your tools for complete organization
- Tall interior pockets for long screwdrivers and front zip pocket for small parts and tools
- Mesh zippered compartment for cables and adapters
- Hard molded front pocket protects safety glasses
- Orange interior for easy tool visibility
- 1680d ballistic weave for durability
- Tough, durable molded bottom protects from the elements



Overall Length:	14" (355.6 mm)
Overall Height:	18-1/2" (469.9 mm)
Overall Width:	7" (177.8 mm)
Material:	1680d Ballistic Weave
Number of Pockets:	25 Closure
Type:	Zipper
Weight:	5.6 lb (2.6 kg)

Glow Ring Tip

Charges when light is on for easy retrieval of tool in the dark



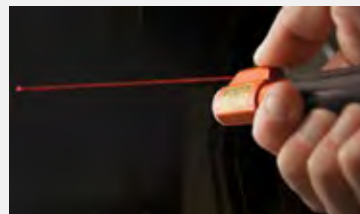
Laser Pointer
Pinpoints objects

Cushion-Grip Handle
for comfort

Inspection Penlight with Laser

Part No. **KL56026**

- LED penlight for up-close lighting in dim areas
- Laser pointer aids in pinpointing objects in out-of-reach locations
- Glow ring tip charges while the light is on and allows for easy retrieval in the dark
- Pocket clip for easy, convenient access
- Aluminum body with cushion-grip handle
- 1 LED for 45 Lumens



Type:	Class II Laser
Overall Length:	6" (152.9 mm)
Overall Height:	1.2" (30.7 mm)
Material:	Aluminum Body, Silicone Grip
Batteries:	2 x AAA



Mini-TAC Pro Pen Flashlight

Part No. **HTL0041**

This Mini-TAC Pro light uses a CREE® LED and has a deep parabolic reflector creating a tight, long throw beam for distance illumination. With a waterproof design, it is constructed from aircraft-grade 6061-T6 aluminum with a Type III hard anodized finish. The tail switch provides momentary or constant-on functionality, a set of user-selectable high, medium or low-brightness settings as well as a disorienting strobe. The light comes with a removable pocket clip and is powered by two included AA batteries.



- CREE® LED technology – 50,000+ hours LED
- Momentary or constant-on, plus 3 user-selectable brightness settings plus strobe
- Sharp focused flashlight beam
- Non-slip grip
- Waterproof, Impact & chemical resistant
- Limited lifetime warranty

FL1 STANDARD	HIGH	MEDIUM	LOW
	100 LUMENS	60 LUMENS	30 LUMENS
	1h 30min	3h	4h 30min
	51m	36m	29m
	667cd	334cd	204cd
	2m		
	1m		

Mini-TAC Pen Flashlight

Part No. **HTL0042**

This Mini-TAC light use a CREE® LED and has a deep parabolic reflector creating a tight, long throw beam for distance illumination. With a water resistant design, it is constructed from aircraft-grade 6061-T6 aluminum with a Type II hard anodized finish. The tail switch provides momentary or constant-on functionality. The light comes with a removable pocket clip.



- CREE® LED technology – 50,000+ hours LED
- Sharp focused flashlight beam
- Non-slip grip
- Impact & chemical resistant
- Powered by 2 AA batteries (included)
- Limited lifetime warranty

FL1 STANDARD		
100 LUMENS	1h 30min	44m
484cd	2m	



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LPS® Safe-Mark® - Food Contact Surface Marker with DETEX® Components



- NSF approved permanent ink marker for nonfood compounds category R1
- General purpose, quick drying permanent ink marker
- Designed for marking on food contact surfaces used in processing, transporting
- Marker can be used to identify storage bins, trays, dies and molds, tools, and processing equipments.
- Ideal to use on metal, glass, plastic, cardboard, rubber, shrink film, stretch wrap, or just about any surface
- Valve action mechanism prevents ink in barrel from drying when the cap is left off
- Does not contain any reportable amounts of HAP's (Hazardous Air Pollutants)
- Does not contain any reportable amounts of xylene.
- Features a threaded barrel that allows the marker cap to be screwed onto the back during use
- Valve & Cap are DETEX® components. The barrel is metal

Write on:

- Stretch Wrap
- Plastic
- Shrink Film
- Glass
- Rubber
- Write on metal
- Cardboard



Color	Part No.
Black	CHP4BK

Valve Action® Paint Markers



Valve Action® is a fast-drying liquid paint marker that provides long-lasting, wear- and weather-resistant marks that are safe for almost any surface. As the most versatile liquid paint marker in the world, the xylene-free paint reduces user health risks.

- Dura-Nib medium-bullet tips
- Durable metal barrel & clip-cap
- Fast-drying permanent paint
- Works on steel, iron, plastics, glass, rubber, cloth
- Marking range -50° F to 150° F
- Xylene-free paint meets CA Prop 65, EPA HAPS & SARA 313
- Made in U.S.A.



*New Colors

Color	Part No.
Aluminum*	CHP2AN
Blue*	CHP2BE
Brown*	CHP2BN
Gold*	CHP2GD
Black	CHP2BK

Color	Part No.
Orange	CHP2OE
Red	CHP2RD
White	CHP2WE
Yellow	CHP2YW
Replacement tips	CHPT



SHOP SUPPLIES

Cross Check™ Plus Aviation Grade Torque Seal®



- Skydrol® -resistant
- Full cure in 24 hours
- Only torque sealant that meets Boeing specifications for: touch-dry time, full cure time, durability when exposed to Skydrol® & harsh solvents
- Visually detect loose nuts and bolts
- Use on all critical fittings
- Great for landing gears, rotor assemblies, gearboxes
- Passes RVCA DO-260G Fluids susceptibility test(section II, spray) for Skydrol® PE-5 hydraulic fluid
- Meets Boeing specification BMS8-45H. Type I/II
- Approved product replacement for Organic F-925 Torque Sealant
- 1 oz



Color	Part No.
Yellow	DCCPYW
Light Blue	DCCPBE
Pink	DCCPPK



TOOLS - CUTTING

SDS Plus Carbide Tip Masonry Drill Bits



Size (in.)	Flute Length (In.)	Overall Length (in.)	Part No.
5/32	4	6-1/4	DSDS532x4
3/16	4	6-1/2	DSDS316x4
1/4	6	8-1/2	DSDS14x6
5/16	6	8-1/2	DSDS516x6
3/8	6	8-1/2	DSDS38x6
1/2	8	10-1/2	DSDS12x8
9/16	4	6-1/4	DSDS916x4
5/8	6	8-1/4	DSDS58x6
3/4	6	8	DSDS34x6

- SDS Plus shank
- Carbide Tip with self centering point in a chisel shaped head
- Reinforced geometry reduces vibration and increases breakage resistance
- Chamfer helps to protect carbide tip in the event of accidental contact with rebar
- Not intended for use in reinforced concrete
- Bright finish



Jobber Length Drill Bits With 3-Flats

- Heavy-duty 140° split point for easy starting w/o center punching
- Nitride surface treatment for increased surface hardness w/o increasing brittleness
- Black & Gold surface treatment for maximum lubricity
- 3-Flats on shank for reduced slippage in the drill chuck



Size (in.)	Flute Length (in.)	O.A.L. (in.)	Part No.
1/16	7/8	1-7/8	DBY116
5/64	1	2	DBY564
3/32	1-1/4	2-1/4	DBY332
7/64	1-1/2	2-5/8	DBY764
1/8	1-5/8	2-3/4	DBY18
9/64	1-3/4	2-7/8	DBY964
5/32	2	3-1/8	DBY532
11/64	2-1/8	3-1/4	DBY1164
3/16	2-5/16	3-1/2	DBY316
13/64	2-7/16	3-5/8	DBY1364
7/32	2-1/2	3-3/4	DBY732
15/64	2-5/8	3-7/8	DBY1564
1/4	2-3/4	4	DBY14
17/64	2-7/8	4-1/8	DBY1764
9/32	2-15/16	4-1/4	DBY932

Size (in.)	Flute Length (in.)	O.A.L. (in.)	Part No.
19/64	3-1/16	4-3/8	DBY1964
5/16	3-3/16	4-1/2	DBY516
21/64	3-5/16	4-5/8	DBY2164
11/32	3-7/16	4-3/4	DBY1132
23/64	3-1/2	4-7/8	DBY2364
3/8	3-5/8	5	DBY38
25/64	3-3/4	5-1/8	DBY2564
13/32	3-7/8	5-1/4	DBY1332
27/64	3-15/16	5-3/8	DBY2764
7/16	4-1/16	5-1/2	DBY716
29/64	4-3/16	5-5/8	DBY2964
15/32	4-5/16	5-3/4	DBY1532
31/64	4-3/8	5-7/8	DBY3164
1/2	4-1/2	6	DBY12

Sets		
No. of Pcs.	Description	Part No.
29	1/16" - 1/2" by 64ths in a metal index	DBYS29
29	1/16" - 1/2" by 64ths in a PAL #PBDP	DBYS29PAL



DBYS29PAL



TOOLS - HAND

11-in-1 Screwdriver/Nut Driver

Part No. **SDMB6**

- Integrated screwdriver and nut driver shaft holds 8 popular tips and converts to 3 nut driver sizes
- Includes industrial strength heat treated bits: 3/8-Inch, 5/16-Inch and 1/4-Inch nut drivers, #1 and #2 Phillips, 1/4-Inch and 3/16-Inch slotted, T10 and T15 TORX, and #1 and #2 square recess
- Interchangeable blade for fast and easy switch out; comfortable Cushion-Grip handle
- Blast finish bit tips provide a firm hold and reduce cam-out
- Assembled in USA of US and imported components



Screw Driver Magnetizer

Part No. **MP-2**

- Quickly magnetize small tools so they attract screws or nuts for easy starting and removing
- Insert a screwdriver or nut driver into the hole, pull it out and it's magnetized
- Magnetizer / Demagnetizer with separate areas for magnetizing and demagnetizing



Magnetic Contact Light

Part No. **MP-3**

- Ideal in low-light environments, this powerful magnetic assembly uses LED lights to illuminate work area. Magnetically attach to screwdriver or other small tools.
- Continuity circuit turns ON/OFF on contact with metal tools
- Batteries included (LR521). 100,000 hrs. bulb life, 2 lumens



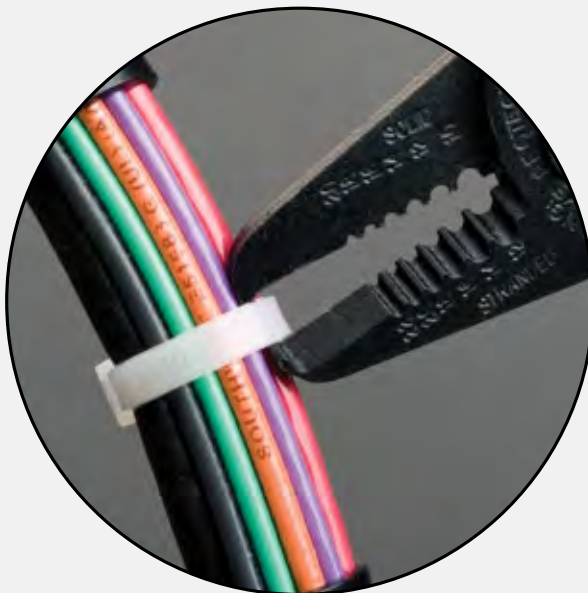
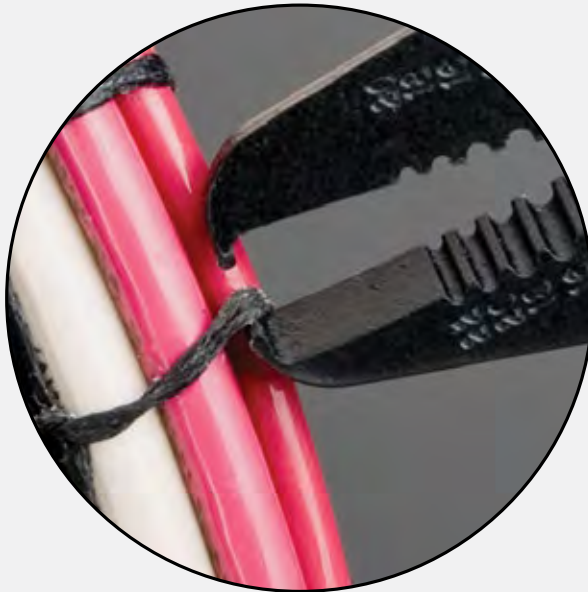


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Cable Tie and Lacing Cutter with Wire Stripper

Part No: **MG1400**

- Safely remove cable ties and lacing without harming bundled items
- Precisely strip 12-22 AWG wires





WIRE & CABLE

Cross-Link Primary Wire



Self-extinguishing insulation



- Insulated in a chemically cross-linked polyethylene insulation (Hypalon™)
- The molecules of SXL insulation are cross-linked giving the insulation more durable qualities
- Insulation will not support a flame in case of an engine fire
- Resistant to cuts and abrasions
- Resistant to damage by temperature surges from overloads
- Resists damage from oil, greases, acids, solvents & moisture
- Higher temperature range of -40° to 221° F
- Hypalon™ Coated
- SAE J1128 Type SXL, 50 Volts DC Max
- Meets or exceeds SAE & ATA specifications

AWG	BLACK	BLUE	L. BLUE	BROWN	GRAY	GREEN	L. GREEN
18	HC18BKV	HC18BEV	HC18LBEV	HC18BNV	HC18GYV	HC18GNV	HC18LGNV
16	HC16BKV	HC16BEV	HC16LBEV	HC16BNV	HC16GYV	HC16GNV	HC16LGNV
14	HC14BKV	HC14BEV	HC14LBEV	HC14BNV	HC14GYV	HC14GNV	HC14LGNV
12	HC12BKV	HC12BEV	-	HC12BNV	HC12GYV	HC12GNV	-
10	HC10BKV	HC10BEV	-	HC10BNV	HC10GYV	HC10GNV	-

AWG	ORANGE	PINK	PURPLE	RED	WHITE	YELLOW
18	HC18OEV	HC18PKV	HC18PEV	HC18RDV	HC18WEV	HC18YWV
16	HC16OEV	HC16PKV	HC16PEV	HC16RDV	HC16WEV	HC16YWV
14	HC14OEV	HC14PKV	HC14PEV	HC14RDV	HC14WEV	HC14YWV
12	HC12OEV	HC12PKV	HC12PEV	HC12RDV	HC12WEV	HC12YWV
10	HC10OEV	HC10PKV	HC10PEV	HC10RDV	HC10WEV	HC10YWV

Part numbers are for 50' spools

For 100' rolls replace the V suffix with a 1. Example: HC18BK1

For 500' rolls replace the V suffix with a 3. Example: HC18BK3



WIRE MANGEMENT

Stainless Steel Cushion Cable Clamps

- Stainless steel clamp for high corrosion resistant
- EPDM rubber cushion reduces vibration, noise and abrasion
- Ideal for harsh outdoor applications - Trucks, Boats, AG
- Use with #10 Stainless screws



I.D. Size (in.)	Part No.
3/16	CCS3
1/4	CCS4
5/16	CCS5
3/8	CCS6
1/2	CCS8
9/16	CCS9

I.D. Size (in.)	Part No.
5/8	CCS10
3/4	CCS12
7/8	CCS14
1	CCS16
1-1/4	CCS20

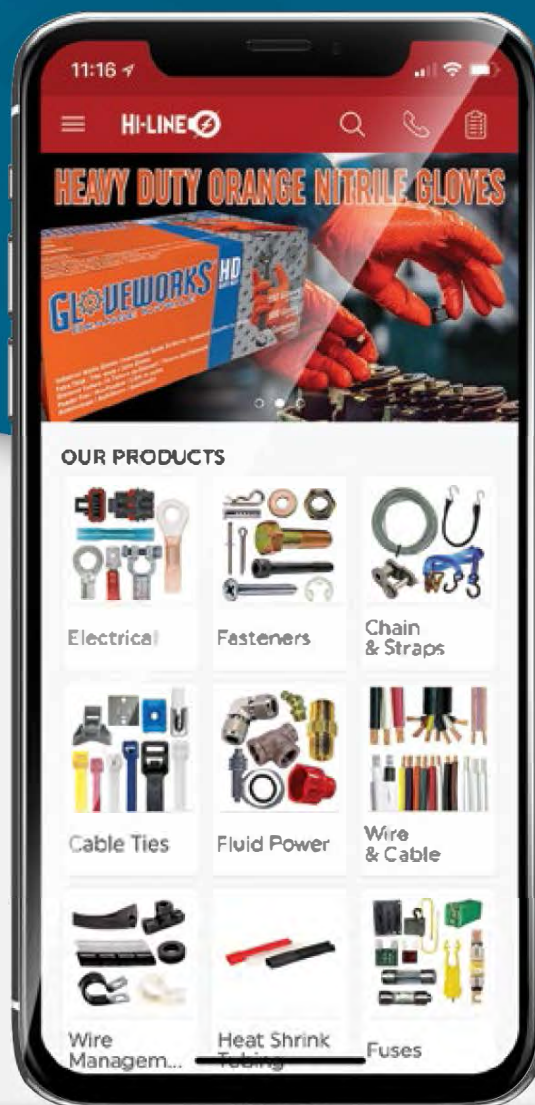
I.D. Size (in.)	Part No.
1-1/2	CCS24
1-3/4	CCS28
2	CCS32
2-1/2	CCS40
3	CCS48

OUR CATALOG IN YOUR POCKET

THE HI-LINE MOBILE APP



Access to 100,000+ products on-line or off, making it fast and easy to find what you need.



Scan for details on app functions and for links to the app store.



FILTERING

When looking for product, you can filter to help narrow your search.



SEARCHING

Search by product, key word, or Hi-Line part number.



SCANNING

Scan our custom backplates or yellow labels to quickly look up parts.



MY LIST

Add items to a list and send a text or email to your Territory Manager.

Quick & easy profile setup.*
Just enter:

Your Name

Your Email

Your Phone #

Your Company Name

ZIP Code _____

TM-Phone Number

You are now ready to search, view and send a product list to your Territory Manager.

*Profile information is used only to text or email "My List" to your Territory Manager. You may skip this, but understand, you will not be able to use the My List feature completely.

AMERICA'S
MOBILE
INDUSTRIAL
HARDWARE
STORE

OUR 10 POINT SERVICE GUARANTEE

10. AFTER HOURS, WEEKENDS AND JUST-IN-TIME

Availability: Have you ever needed a part at midnight or on the weekend? Your Hi-Line Territory Manager and his mobile store are available to you 24 hours a day, 7 days a week.

9. REGULARLY SCHEDULED SERVICE CALLS: Do you run out of parts resulting in downtime or expensive emergency shipments? Your Hi-Line Territory Manager can set up scheduled times to replenish your supplies minimizing or eliminating your downtime.

8. ON-SITE PRODUCT TRAINING: Our Territory Managers are trained on the latest product releases and will be glad to set up seminars to demonstrate the latest innovations in your industry.

7. POINT OF PURCHASE: How many times have you needed something after you have already placed an order? When your local Hi-Line Territory Manager comes to you, they will have whatever you need with them in their mobile store.

6. "NO QUESTIONS ASKED" RETURN POLICY: If for any reason you are not satisfied with our products, or your needs change, return any product to your local Hi-Line Territory Manager on his next service call for a full refund or exchange.

5. INVENTORY MANAGEMENT TO YOUR SPECIFICATIONS: After your parts bins have been organized, we can make a list of the parts you may need. On an ongoing basis, we keep accurate records of what you use, how often and how much.

4. SORTING, CLEANING AND ORGANIZING: Our "No Hassle" service begins with adding, replacing and cleaning your parts bins. Then we organize them so you can find parts faster. Rotating inventory is also done.

3. ON-THE-SPOT PRODUCT INSPECTION: Have you ever received the wrong part or found a part was broken upon delivery? You can inspect the parts to verify their identification and quality at the time of purchase.

2. 1-800 TECHNICAL ASSISTANCE HOT-LINE (1-800-944-5463): From 7 a.m. to 7 p.m. central standard time, our Customer Support staff will answer any question you may have or route a Territory Manager to you immediately. With Hi-Line, you talk to a qualified, knowledgeable person, not to a machine.

AND THE #1 HI-LINE SERVICE GUARANTEE POINT IS...

1. WE BRING THE SERVICE AND STORE TO YOU®: Your Hi-Line Territory Manager's fully stocked mobile store comes to you for immediate service.



America's Mobile Industrial Hardware Store™

HOW LONG HAS IT BEEN SINCE YOU UPDATED YOUR PARTS BIN AREA?



WITHOUT HI-LINE



WITH HI-LINE

Organization in your shop is key and can be an overwhelming task. Let Hi-Line help you do it! We take a hands on approach and work with you to develop a plan that optimizes your parts area and inventory levels. Our goal is to increase your uptime and productivity. How do we do this? It's simple. Our Territory Managers are local and take the time to learn your business. They provide direct service with your goals in mind, set up routine visits that work with your schedule, service high quality American made products when available and offer a no questions asked product return policy. Give us a chance to earn your trust and refresh your parts area the Hi-Line way.

WHAT MAKES HI-LINE DIFFERENT

- Mobile Industrial Hardware Stores
- Nation wide inventory management services
- "No questions asked" product return policy
- American made products 
- 24/7/365 Availability
- On-site product training
- Inventory management customized to your specifications & guidelines
- Parts area optimization
- Local representatives that learn your business

