



ELECTRIC COMPANY



1.800.231.5317

www.dxelectric.com



Since 1970

SINCE 1970, family-owned and operated DX Electric Company has built our business on integrity and customer service. When you call us you can depend on us for two things – straight answers and real product knowledge.

When we say something is going to ship today, it ships today (and the right product ships, too!). When we quote you a price, you can be sure it is the same price you will see on your invoice. It is the way we have always done business.

But that is not the only thing that sets us apart. The reason we have so many loyal customers is because of the true product knowledge our team has to offer. You see, we sell products, not just part numbers. When you call us with a difficult sourcing question, you will be glad to find our product expertise does not just stop at quoting part numbers. Our people know electrical products. And they have answers.

Our fully stocked warehouses in Dallas and Houston offer aggressive pricing and same day shipping nationwide (and globally).

IMPORTANT NOTES

PART NUMBERS: Although the part numbers in this catalog are DX Electric part numbers, because of our extensive product knowledge, we can easily cross reference from any and all manufacturers' part numbers.

ADDITIONAL PRODUCTS: We offer a variety of products which are not shown within the pages of this catalog. Please contact our sales department for assistance on parts you cannot locate in the catalog.

UL: We are an authorized UL re-packager/re-spooler and can offer UL tags and/or labels on products upon request.

CUSTOM PACKAGING: We offer custom packaging from small to bulk sizes. Packages can be marked as the customer specifies (plain bags, marked bags, UL labels, reference to customer part numbers, reference to manufacturer part numbers).

CERTIFICATIONS: We offer a DX Certificate of Compliance and/or a manufacturer's Certificate of Compliance (for most manufacturers and products). Mil-Spec certifications available.

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We offer products manufactured by the following companies:

- 3M
- Alpha
- Belden
- Brady
- Burndy
- Canusa
- Greenlee
- HellermannTyton
- Heyco
- Hollingsworth
- HH Smith
- Ilsco
- Molex
- Mueller
- Panduit
- Penn-Union
- Quabbin
- Thomas & Betts

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Industrial Division



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Specifications are subject to change without notice.

TERMINALS & CONNECTORS

TERMINAL BARREL STYLES:

There are four different barrel styles from which to choose when selecting terminals. All the styles are made from the finest electrolytic copper and are electro-tin plated for maximum corrosion resistance.



Non-Insulated Brazed Barrel

This barrel style is made with a special silver alloy brazed seam. The seam cannot possibly open under any condition of stress or wire pull. It accommodates solid or stranded wire.

WIRE RANGE: 22 to 4/0 AWG.



Vinyl Insulated

This barrel style features a rigid PVC insulation sleeve permanently attached to the terminal. It features a funnel wire entry for easy wire insertion.

RATED: 600V **OPERATING TEMPERATURE RANGE:** -67°F To 221°F (-55°C To 105°C)

WIRE RANGE: 22 to 10 AWG



Nylon Insulated

This barrel style is the ultimate in high performance terminal design and construction. The plated brass sleeve strengthens the barrel and secures the wire to protect against stress and high vibration. A permanently attached color coded nylon insulating sleeve extends beyond the metal support sleeve. Funnel wire entry makes for easy wire insertion.

RATED: 300V **OPERATING TEMPERATURE RANGE:** -67°F To 221°F (-55°C To 105°C)

WIRE RANGE: 26 to 10 AWG



Large Gauge: Nylon Insulated: Funnel Entry

This barrel style is designed specifically for larger wire applications. The color coded barrel is formed by applying a permanent, rigid, color coded nylon insulating sleeve to the barrel. The insulation has an expanded, funnel entrance into the wire barrel that eliminates wire strand “hang up” and increases wire termination. It also features a brazed seam.

RATED: 600V **OPERATING TEMPERATURE RANGE:** -67°F To 221°F (-55°C To 105°C)

WIRE RANGE: 8 to 4/0 AWG.

NYLON INSULATED FUNNEL ENTRY

(Non Funnel)

26-24 AWG



Stud Size
DX Part #

2 RM2N-C/T 4 RM4N-C/T 6 RM6N-C/T 8 RM8N-C/T 10 RM10N-C/T

22-18 AWG



Stud Size
DX Part #

2 RA2N/E 4 RA4N/E 6 RA6SN/E 6 RA6N/E 8 RA8N/E 10 RA10N/E 1/4 RA14N/E 5/16 RA516N/E 3/8 RA38N/E

16-14 AWG



Stud Size
DX Part #

4 RB4N/E 6 RB6SN/E 6 RB6N/E 8 RB8N/E 10 RB10N/E 1/4 RB14N/E 5/16 RB516N/E 3/8 RB38N/E

12-10 AWG



Stud Size
DX Part #

4 RC4N/E 6 RC6SN/E 6 RC6N/E 8 RC8N/E 10 RC10N/E 1/4 RC14N/E 5/16 RC516N/E 3/8 RC38N/E 1/2 RC12N/E

Products on this page are actual size.

TERMINALS & CONNECTORS

NYLON INSULATED BRAZED SEAM FUNNEL ENTRY

**8
AWG**



Stud Size	10	10	1/4	1/4	5/16	3/8	1/2
DX Part #	RD10SN-EF/E	RD10N-EF/E	RD14SN-EF/E	RD14N-EF/E	RD516N-EF/E	RD38N-EF/E	RD12N-EF/E

**6
AWG**



Stud Size	10	1/4	5/16	3/8	1/2
DX Part #	RE10N-EF/E	RE14N-EF/E	RE516N-EF/E	RE38N-EF/E	RE12N-EF/E

**4
AWG**



Stud Size	10	1/4	1/4	5/16	3/8	1/2
DX Part #	RF10SN-EF/E	RF14SN-EF/E	RF14N-EF/E	RF516N-EF/E	RF38N-EF/E	RF12N-EF/E

Products on this page are actual size.

VINYL INSULATED FUNNEL ENTRY

22-18 AWG



Stud Size DX Part #	2	4	6	6	8	10	1/4	5/16	3/8
	RAA2/E	RA4/E	RA6S/E	RA6/E	RA8/E	RA10/E	RA14/E	RA516/E	RA38/E

16-14 AWG



Stud Size DX Part #	2	4	6	6	8	10	1/4	5/16	3/8
	RBB2/E	RB4/E	RB6S/E	RB6/E	RB8/E	RB10/E	RB14/E	RB516/E	RB38/E

12-10 AWG



Stud Size DX Part #	6	6	8	10	1/4	5/16	3/8	1/2
	RC6S/E	RC6/E	RC8/E	RC10/E	RC14/E	RC516/E	RC38/E	RC12/T

Products on this page are actual size.

TERMINALS & CONNECTORS

NON-INSULATED BRAZED SEAM

(Non Brazed)

**26-24
AWG**



Stud Size
DX Part #

0 RM0QQ/T 2 RM2QQ/T 4 RM4QQ/T 6 RM6QQ/T 8 RM8QQ/T 10 RM10QQ/T

**22-18
AWG**



Stud Size
DX Part #

4 RA4Q/E 6 RA6SQ/E 6 RA6Q/E 8 RA8Q/E 10 RA10Q/E 1/4 RA14Q/E 5/16 RA516Q/E 3/8 RA38Q/E

**16-14
AWG**



Stud Size
DX Part #

4 RB4Q/E 6 RB6SQ/E 6 RB6Q/E 8 RB8Q/E 10 RB10Q/E 1/4 RB14Q/E 5/16 RB516Q/E 3/8 RB38Q/E

**12-10
AWG**



Stud Size
DX Part #

4 RC4Q/T 6 RC6SQ/E 6 RC6Q/E 8 RC8Q/E 10 RC10Q/E 1/4 RC14Q/E 5/16 RC516Q/E 3/8 RC38Q/E 1/2 RC12Q/E

**8
AWG**



Stud Size
DX Part #

6 RD6Q/E 8 RD8SQ/E 8 RD8Q/E 10 RD10SQ/E 10 RD10Q/E 1/4 RD14SQ/E 1/4 RD14Q/E 5/16 RD516Q/E 3/8 RD38Q/E 1/2 RD12Q/E

Products on this page are actual size.

NON-INSULATED BRAZED SEAM

6 AWG



Stud Size	8	10	10	1/4	1/4	5/16	3/8	1/2	3/4
DX Part #	RE8Q/E	RE10Q/E	RE10WQ/E	RE14Q/E	RE14WQ/E	RE516Q/E	RE38Q/E	RE12Q/E	RE34Q/E

4 AWG



Stud Size	10	10	1/4	1/4	5/16	3/8	1/2	5/8
DX Part #	RF10SQ/E	RF10WQ/E	RF14SQ/E	RF14Q/E	RF516Q/E	RF38Q/E	RF12Q/E	RF58Q/E

2 AWG



Stud Size	1/4	1/4	5/16	3/8	1/2	5/8	3/4
DX Part #	RG14SQ/E	RG14WQ/E	RG516Q/E	RG38Q/E	RG12Q/E	RG58Q/E	RG34Q/E

Products on this page are actual size.

TERMINALS & CONNECTORS

NON-INSULATED BRAZED SEAM

**1/0
AWG**



Stud Size	1/4	5/16	3/8	1/2
DX Part #	RH140/E	RH516Q/E	RH38Q/E	RH120Q/E

**2/0
AWG**



Stud Size	1/4	5/16	3/8	1/2
DX Part #	RJ140/E	RJ516Q/E	RJ38Q/E	RJ120Q/E

**3/0
AWG**



Stud Size	5/16	3/8	1/2
DX Part #	RK516Q/E	RK38Q/E	RK120Q/E

**4/0
AWG**



Stud Size	3/8	1/2
DX Part #	RL38Q/E	RL120Q/E

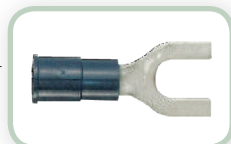
Products on this page are actual size.

Additional stud sizes available for large gauge lugs.

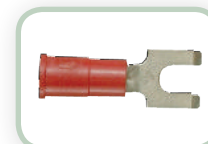
SPADES

There are several styles of spade terminals from which to choose:

Spade: the standard spade offers a more rapid installation than a ring terminal because there is no need to remove the screw. The spade is normally used on free standing studs.



Flanged Block Spade: same as the block spade yet with turned up edges that give the spade an extra locking mechanism. For specifications, price, & availability, please contact our sales department.



Block Spade: similar to the standard spade but note that the sides are flat and smooth making this spade more popular in use with terminal blocks and tight spaces.



Mini Spring Spade: made from spring tension material, the small protrusions inside the tongue offer a snap mechanism which gives a secure lock on the stud.



SPADES: Funnel Entry

Wire Gauge	Stud Size	Width (in.)	Clearance (in.)	Non-Ins. Part #	Length (in.)	Vinyl Ins. Part #	Nylon Ins. Part #	Length (in.)
26-24	4	.213	.215	SM4QQ/E *	.487	—	—	.657
26-24	4	.200	.210	SM4QQ/T *	.460	—	SM4N/T	.610
26-24	6	.250	.280	SM6QQ/T *	.530	—	SM6N/T	.690
22-18	6	.326	.303	SA6Q/E	.690	SA6/E	SA6N/E	.915
22-18	8	.326	.303	SA8Q/E	.690	SA8/E	SA8N/E	.915
22-18	10	.326	.303	SA10Q/E	.690	SA10/E	SA10N/E	.915
16-14	6	.305	.211	SB6Q/E	.564	SB6/E	SB6N/E	.804
16-14	8	.305	.211	SB8Q/E	.564	SB8/E	SB8N/E	.804
16-14	10	.372	.269	SB10Q/E	.687	SB10/E	SB10N/E	.927
16-14	14	.472	.339	SB14Q/N	.787	SB14/N	SB14N/N	1.0
12-10	6	.385	.301	SC6Q/E	.812	SC6/E	SC6N/E	1.1
12-10	8	.385	.301	SC8Q/E	.812	SC8/E	SC8N/E	1.1
12-10	10	.385	.301	SC10Q/E	.812	SC10/E	SC10N/E	1.1
12-10	14	.543	.393	SC14Q/E	.965	SC14/E	SC14N/E	1.3

* Denotes non-brazed seam.

MINI SPRING SPADES

NON-INSULATED



Wire Gauge	Stud Size	DX Part #	Width (in)	Clearance (in)	Length (in)
22-18	5-6	MSSA6QQ/E	.260	.230	.585
22-18	8	MSSA8QQ/E	.320	.261	.646
22-18	10	MSSA10QQ/E	.340	.261	.694
16-14	5-6	MSSB6QQ/E	.260	.230	.585
16-14	8	MSSB8QQ/E	.320	.261	.646
16-14	10	MSSB10QQ/E	.340	.261	.694
12-10	5-6	MSSC6QQ/E	.260	.230	.664
12-10	8	MSSC8QQ/E	.320	.261	.725
12-10	10	MSSC10QQ/E	.340	.261	.773

Block Spades: Non-Insulated

22-18
AWG



Stud Size Part # 6 BSA6SQ/T 8 BSA8Q/T 10 BSA10Q/T

16-14
AWG



Stud Size Part # 6 BSB6SQ/T 8 BSB8Q/T 10 BSB10Q/T

12-10
AWG



Stud Size Part # 6 BSC6Q/T 8 BSC8Q/T 10 BSC10Q/T

Parts above are actual size.

TERMINALS & CONNECTORS

BLOCK SPADES – NYLON FUNNEL ENTRY

3M

**22-18
AWG**



Stud Size
DX Part #

4
BSA4N/T

6
BSA6SN/T

6
BSA6N/T

8
BSA8N/T

10
BSA10N/T

**16-14
AWG**



Stud Size
DX Part #

6
BSB6SN/T

6
BSB6N/T

8
BSB8N/T

10
BSB10N/T

**12-10
AWG**



Stud Size
DX Part #

6
BSC6N/T

8
BSC8N/T

10
BSC10N/T

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**22-18
AWG**



Stud Size
DX Part #

2
BSA2N/E

4
BSA4SN/E

4
BSA4N/E

6
BSA6SN/E

6
BSA6N/E

8
BSA8N/E

10
BSA10N/E

**16-14
AWG**



Stud Size
DX Part #

4
BSB4N/E

6
BSB6WN/E

8
BSB8N/E

10
BSB10N/E

**12-10
AWG**



Stud Size
DX Part #

6
BSC6N/E

8
BSC8N/E

10
BSC10N/E

Products on this page are actual size.

BLOCK SPADES – VINYL FUNNEL ENTRY



**22-18
AWG**



Stud Size
DX Part #

4
BSA4/T

6
BSA6S/T

6
BSA6/T

8
BSA8/T

10
BSA10/T

**16-14
AWG**



Stud Size
DX Part #

4
BSB4/T

6
BSB6S/T

6
BSB6/T

8
BSB8/T

10
BSB10/T

**12-10
AWG**



Stud Size
DX Part #

6
BSC6/T

8
BSC8/T

10
BSC10/T

**22-18
AWG**



Stud Size
DX Part #

4
BSA4/E

6
BSA6S/E

6
BSA6/E

8
BSA8/E

10
BSA10/E

**16-14
AWG**



Stud Size
DX Part #

4
BSB4/E

6
BSB6S/E

6
BSB6/E

8
BSB8/E

10
BSB10/E

**12-10
AWG**



Stud Size
DX Part #

6
BSC6/E

8
BSC8/E

10
BSC10/E



Industrial Division

Products on this page are actual size.

TERMINALS & CONNECTORS

MINI SPRING SPADES – FUNNEL ENTRY

3M

	VINYL			NYLON			
22-18 AWG							
Stud Size DX Part #	6 MSSA6/T	8 MSSA8/T	10 MSSA10/T	4 MSSA4N/T	6 MSSA6N/T	8 MSSA8N/T	10 MSSA10N/T
16-14 AWG							
Stud Size DX Part #	6 MSSB6/T	8 MSSB8/T	10 MSSB10/T	6 MSSB6N/T	8 MSSB8N/T	10 MSSB10N/T	
12-10 AWG							
Stud Size DX Part #	6 MSSC6/T	8 MSSC8/T	10 MSSC10/T	6 MSSC6N/T	8 MSSC8N/T	10 MSSC10N/T	

	VINYL			NYLON			
22-18 AWG							
Stud Size DX Part #	6 MSSA6/E	8 MSSA8/E	10 MSSA10/E	5 MSSA5N/E	6 MSSA6N/E	8 MSSA8N/E	10 MSSA10N/E
16-14 AWG							
Stud Size DX Part #	6 MSSB6/E	8 MSSB8/E	10 MSSB10/E	6 MSSB6N/E	8 MSSB8N/E	10 MSSB10N/E	
12-10 AWG							
Stud Size DX Part #	6 MSSC6/E	8 MSSC8/E	10 MSSC10/E	6 MSSC6N/E	8 MSSC8N/E	10 MSSC10N/E	

Products on this page are actual size.

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WIRE PIN TERMINALS

Quick and easy connections where set screws are used to make electrical contact with the wire. Wire pins are commonly used with european style terminal blocks



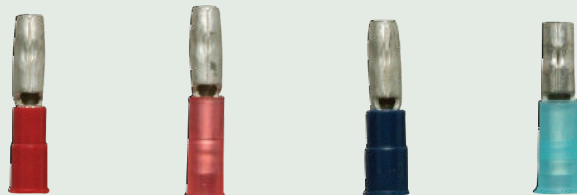
AWG	22-18	22-18	16-14	16-14	12-10	12-10
Pin Length (in)	.37	.47	.37	.47	.46	.55
Nylon Ins. Part #	WPA37N/E	WPA47N/T	WPB37N/E	WPB47N/T	WPC46N/E	WPC55N/T
Vinyl Ins. Part #	WPA37/E	WPA47/T	WPB37/E	WPB47/T	WPC46/E	WPC55/T

Products shown above are actual size.

PLUGS AND RECEPTACLES

These parts are made to close tolerances producing a tight friction when parts are mated. The insuing in-line connection is very reliable. Plugs and receptacles are offered in both the .156 series and the .180 series.

PLUGS



AWG	22-18	22-18	16-14	16-14
Insulation	VINYL	NYLON	VINYL	NYLON
.180 series DX Part #	SPA180/T	SPA180/NT	SPB180/T	SPB180N/T
.156 series DX Part #	SPA156/T	SPA156N/T	SPB156/E	SPB156N/T

RECEPTACLES



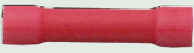






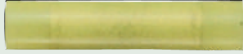


AWG	22-18	22-18	16-14	16-14
Insulation	VINYL	NYLON	VINYL	NYLON
.180 series DX Part #	FPA180/E	FPA180N/T	FPB180/E	FPB180N/T
.156 series DX Part #	FPA156/E	FPA156N/T	FPB156/E	FPB156N/T

Products on this page are actual size.

TERMINALS & CONNECTORS

BUTT CONNECTORS

NON-INSULATED		VINYL	NYLON
26-22 AWG	
DX Part #			B2622N/J
22-18 AWG			
DX Part #	B2218Q/E	B2218/E	B2218N/E
16-14 AWG			
DX Part #	B1614Q/E	B1614/E	B1614N/E
12-10 AWG			
DX Part #	B1210Q/E	B1210/E	B1210N/E

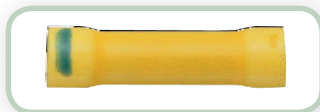
Products in above chart are actual size.

STEP DOWN BUTT CONNECTORS

PARALLEL CONNECTORS

AWG	Non-Insulated Part #	Length (in.)
22-18	P2218Q/E	.332
16-14	P1614Q/E	.330
12-10	P1210Q/E	.330
8	P8Q/E	.408
6	P6Q/E	.477
4	P4Q/E	.547
2	P2Q/E	.680
1/0	P10Q/E	.790
2/0	P20Q/E	.779
3/0	P30Q/E	.800
4/0	P40Q/E	.820

Some sizes are available with vinyl or nylon insulation. Please contact our sales department for more information.



The perfect solution when 2 wires need to be inserted in one end of a splice and a single wire in the other end.

AWG	Non-Insulated Part #	Insulated Part #
22-18 to 16-14	SDB22-14Q/E	SDB22-14/E
16-14 to 12-10	SDB16-10Q/E	SDB16-10/E
12-10 to 8	SDB12-8Q/E	SDB12-8/E
8 to 6	SDB8-6Q/E	SDB8-6/E

Other sizes available. Please consult our sales department.





LARGE GAUGE BUTT CONNECTORS



AWG	Non-Insulated Part #	Length (in)	Vinyl Ins. Part #	Length (in)	Nylon Ins. Part #	Length (in)
8	B8Q/E	.864	B8/E	1.51	B8N/E	1.44
6	B6Q/E	1.045	B6/E	1.855	B6N/E	1.79
4	B4Q/E	1.155	B4/E	2.036	B4N/E	2.04
2	B2Q/E	1.28	B2/E	1.277	—	—
1/0	B10Q/E	1.44	—	—	—	—
2/0	B20Q/E	1.44	—	—	—	—
3/0	B30Q/E	1.54	—	—	—	—
4/0	B40Q/E	1.54	—	—	—	—







QUICK DISCONNECTS

Quick Disconnect terminals are used where temporary electrical disconnection may be needed for repair or replacement. They are most commonly found on the back of switches, gauges and control devices. Many styles and configurations are available for a wide variety of uses from non-insulated all the way to fully-insulated. Quick disconnect terminals are also available in many different tab widths and thicknesses to accommodate your applications.

NON-INSULATED			NYLON INSULATED		FULLY INSULATED					
26-24 AWG										
Tab Width			.110	.187	.110	.187	.110	.110	.187	.250
Tab Thickness	x.020	SOM110Q/E	SOM187Q/E	SOM110N/E	SOM187N/E	ILC-M-RX/T .110*	ILC-M-R/T .110	SOM187-FI/E	—	
	x.032	SOM110Q-3/T	SOM187Q-3/E	SOM110N-3/E	SOM187N-3/E	—	—	SOM187-3-FI/E	SOM250-FI/E	

NON-INSULATED QUICK DISCONNECTS

22-18 AWG					16-14 AWG					
										
Tab Width		.110	.187	.205	.250	.110		.187	.205	.250
Tab Thickness	x.020	SOA110Q/E	SOA187Q/E	SOA205Q/E	—	SOB110Q/E		SOB187Q/E	SOB205Q/E	—
	x.032	SOA110Q-3/E	SOA187Q-3/E	—	SOA250Q/E	SOB110Q-3/E		SOB187Q-3/E	SOB205Q-3/E	SOB250Q/E

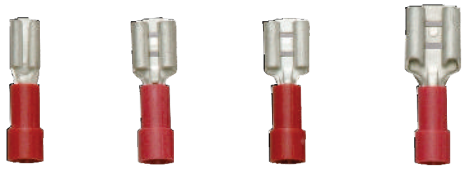
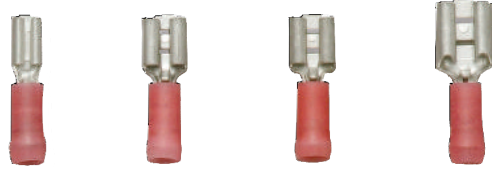
14-12 AWG			12-10 AWG										
													
Tab Width			.187	.250	.250	.375	.187	.250					
Tab Thickness	x.020	SOQ187Q/E		—	—	—	SOC187XQ*		—				
	x.032	SOQ187Q-3/E		SOQ250Q/E		SOC250Q/E		—	SOC187XQ-3*		SOC250XQ*		
	x.050	—		—		—		SOC375Q/T		—		—	

Products on this page are actual size.

* These parts come with an extra support sleeve.

TERMINALS & CONNECTORS

INSULATED QUICK DISCONNECTS – FUNNEL ENTRY

VINYL					NYLON			
22-18 AWG								
								
Tab Width	.110	.187	.205	.250	.110	.187	.205	.250
Tab Thickness	x.020	SOA110/E	SOA187/E	SOA205/E	—	SOA110N/E	SOA187N/E	SOA205N/E
	x.032	SOA110-3/E	SOA187-3/E	SOA205-3/E	SOA250/E	SOA110N-3/E	SOA187N-3/E	SOA205N-3/E

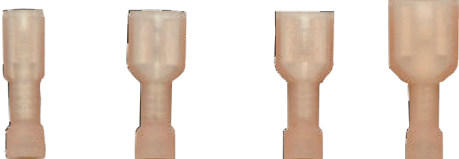

16-14 AWG								
								
Tab Width	.110	.187	.205	.250	.110	.187	.205	.250
Tab Thickness	x.020	SOB110/E	SOB187/E	SOB205/E	—	SOB110N/E	SOB187N/E	SOB205N/E
	x.032	SOB110-3/E	SOB187-3/E	SOB205-3/E	SOB250/E	SOB110N-3/E	SOB187N-3/E	SOB205N-3/E



14-12 AWG								
								
Tab Width	.250				.187		.250	
Tab Thickness	x.020	—				SOQ187N/E		—
	x.032	SOQ250/E				SOQ187N-3/E		SOQ250N/E

12-10 AWG								
								
Tab Width	.187	.250	.375		.187	.250	.375	
Tab Thickness	x.020	SOC187	—	—	SOC187N	—	—	
	x.032	SOC187-3	SOC250/E	—	SOC187N-3	SOC250N/E	—	
	x.050	—	—	SOC375/T	—	—	SOC375N/T	

Products on this page are actual size.

FULLY INSULATED QUICK DISCONNECTS – FUNNEL ENTRY

FULLY-INSULATED					FULLY-INSULATED W/SLEEVE				
22-18 AWG									
									
Tab Width	.110	.187	.205	.250	.110	.187	.205	.250	
Tab Thickness	x.020	SOA110-FI/E	SOA187-FI/E	SOA205-FI/E	—	SOA110X-FI/E	SOA187X-FI/E	SOA205X-FI/E	—
	x.032	SOA110-3-FI/E	SOA187-3-FI/E	SOA205-3-FI/E	SOA250-FI/E	SOA110X-3-FI/E	SOA187X-3-FI/E	SOA205X-3-FI/E	SOA250X-FI/E

16-14 AWG									
									
Tab Width	.187	.205	.250		.110	.187	.205	.250	
Tab Thickness	x.020	SOB187-FI/E	SOB205-FI/E	—	SOB110X-FI/E	SOB187X-FI/E	SOB205X-FI/E	—	
	x.032	SOB187-3-FI/E	SOB205-3-FI/E	SOB250-FI/E	SOB110X-3-FI/E	SOB187X-3-FI/E	SOB205X-3-FI/E	SOB250X-FI/E	

IMPORTANT NOTES

PART NUMBERS: Although the part numbers in this catalog are DX Electric part numbers, because of our extensive product knowledge, we can easily cross reference from any and all manufacturers' part numbers.

ADDITIONAL PRODUCTS: We offer a variety of products which are not shown within the pages of this catalog. Please contact our sales department for assistance on parts you cannot locate in the catalog.

UL: We are an authorized UL re-packager/re-spooler and can offer UL tags and/or labels on products upon request.

CUSTOM PACKAGING: We offer custom packaging from small to bulk sizes. Packages can be marked as the customer specifies (plain bags, marked bags, UL labels, reference to customer part numbers, reference to manufacturer part numbers).

CERTIFICATIONS: We offer a DX Certificate of Compliance and/or a manufacturer's Certificate of Compliance (for most manufacturers and products). Mil-Spec certifications available.

14-12 AWG



Tab Width	.187	.250
Tab Thickness	x.020	SOQ187X-FI-EF/E
	x.032	SOQ187X-3-FI-EF/E

12-10 AWG



Tab Width	.250	.250
Tab Thickness	x.032	SOC250-FI/E*





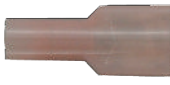





* This part does NOT have an extra support sleeve.

Products on this page are actual size.











TERMINALS & CONNECTORS

IN-LINE CONNECTORS (ILC) – FUNNEL ENTRY

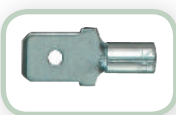
These male and female couplers mate together forming a fully insulated inline splice. This splice may be connected and disconnected without damage to the nylon insulation.

Tab Size .187 x .020	22-18 AWG		16-14 AWG		12-10 AWG	
						
DX Part #	FEMALE ILC-A-R/T .187	MALE ILC-A-T/T .187	FEMALE ILC-B-R/T .187	MALE ILC-B-T/T .187	NOT AVAILABLE	
Tab Size .250 x .032						
DX Part #	FEMALE ILC-A-R/T	MALE ILC-A-T/T	FEMALE ILC-B-R/T	MALE ILC-B-T/T	FEMALE ILC-C-R/T	MALE ILC-C-T/T

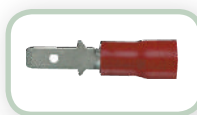
ILC WITH EXTRA SUPPORT SLEEVE – FUNNEL ENTRY

Tab Size .187 x .020	22-18 AWG		16-14 AWG		12-10 AWG	
						
DX Part #	FEMALE ILC-A-RX/T .187	MALE ILC-A-TX/T .187	FEMALE ILC-B-RX/T .187	MALE ILC-B-TX/T .187	NOT AVAILABLE	
Tab Size .250 x .032						
DX Part #	FEMALE ILC-A-RX/T	MALE ILC-A-TX/T	FEMALE ILC-B-RX/T	MALE ILC-B-TX/T	FEMALE ILC-C-RX/T	MALE ILC-C-TX/T

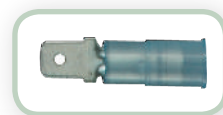
MALE TABS



Non-Insulated



Vinyl Insulated



Nylon Insulated

AWG	Non-Insulated		Vinyl Insulated			Nylon Insulated	
	Tab Size .187 x .020	Tab Size .250 x .032	Tab Size .110 x .020	Tab Size .187 x .020	Tab Size .250 x .032	Tab Size .187 x .020	Tab Size .250 x .032
22-18	SOA187TQ/E	SOA250TQ/E	SOA110T/DC	SOA187T/E	SOA250T/E	SOA187TN/E	SOA250TN/E
16-14	SOB187TQ/E	SOB250TQ/E	SOB110T/DC	SOB187T/E	SOB250T/E	SOB187TN/E	SOB250TN/E
12-10		SOC250TQ/E			SOC250T/E		SOC250TN/E



FULLY INSULATED FLAGS

AWG	Tab Size .187 x .020	Tab Size .187 x .032	Tab Size .250 x .032
22-18	SOA187F-FI/E	SOA187F-3-FI/E	SOA250F-FI/E
16-14	SOB187F-FI/E	SOB187F-3-FI/E	SOB250F-FI/E
12-10			SOC250F-FI/E



FLAGS WITH WIRE GRIP

AWG	Tab Size .187 x .020	Tab Size .187 x .032	Tab Size .250 x .032
22-18	SOA187F-IG/E	SOA187F-3-IG/E	SOA250F-IG/E
16-14	SOB187F-IG/E	SOB187F-3-IG/E	SOB250F-IG/E

FULLY INSULATED FLAGS Thomas&Betts



AWG	Tab Size .187 x .020	Tab Size .187 x .032	Tab Size .250 x .032
22-18	SOA187F-FI/S	SOA187F-3-FI/S	SOA250F-FI/S
16-14	SOB187F-FI/S	SOB187F-3-FI/S	SOB250F-FI/S
12-10			SOC250F-FI/S

NON-INSULATED FLAGS Thomas&Betts

AWG	Tab Size .250 x .032
22-18	SOA250F/S
16-14	SOB250F/S
12-10	SOC250F/S



ADAPTERS AND TABS



Tab Size .250 X .032	Tab Size .250 X .032	Tab Size .187 X .020	Tab Size .250 X .032	Tab Size .250 X .032	Tab Size .250 X .032
TAB-10-0/T	TAB-8-45/E	VWA-1/E .187	VWA-1/E	VWA	CHR
# 10 hole	# 8 hole				

Other types, styles and sizes available

PIGGY BACKS

AWG	Non-Insulated .250 x .032	Vinyl .250 x .032	Nylon .250 x .032
22-18	SOA250Q-PB/E	SOA250-PB/E	SOA250N-PB/E
16-14	SOB250Q-PB/E	SOB250-PB/E	SOB250N-PB/E
12-10	SOC250Q-PB/E	SOC250-PB/E	SOC250N-PB/E



NON-INSULATED FLAGS



	22-18 AWG		16-14 AWG		12-10 AWG	Wide Clearance For Hermetic Tabs		
	.187	.250	.187	.250	.250	16-14 AWG	14-12 AWG	12-10 AWG
Fits Tab						.250	.250	.250
Thickness x .020	SOA187F/E		SOB187F/E					
x .032	SOA187F-3/E	SOA250F/E	SOB187F-3/E	SOB250F/E	SOC250F	SOB250FB	SOQ250F/E	SOC250FB

TERMINALS & CONNECTORS

WIRE CONNECTORS

Nylon Closed End Connectors (Pigtails) UL/CSA 105°C/221°F 600V



AWG	22-14	22-12	16-10	8
DX Part #	CEC-2214/E	CEC-2212/E	CEC-1610/E	CEC-8/E

Standard Spring Connectors UL/CSA 105°C/221°F



Max Wire Range	2 #16	3 #16	3 #16 & 1 #18	3 #12	2 #10
Voltage	300	300	600	600	600
DX Part #	WN-71	WN-72	WN-73	WN-74	WN-76

Winged Spring Connectors UL/CSA 105°C/221°F 600V



Max Wire Range	3 #14	4 #12	3 #10	3 #10 + 1 #18
DX Part #	WWN-Y	WWN-R	WWN-G	WWN-B

3M Electrical Spring Connectors UL/CSA 105°C/221°F 600V



Wire Size	22-10	18-10	14-8	12-6
DX Part #	WN-Y	WN-R	WN-G	WN-B

PORCELAIN WIRE CONNECTORS

For **high temperature** applications in excess of 150°C/302°F. 300V.

DX PART # WNP-S



Wire Range:
2 #16
2 to 4 #18
1 #14 + 1 #18
1 #16 + 2 #18
2 #16 + 1 #18

DX PART # WNP-M



Wire Range:
2 or 3 #16
2 to 4 #18
1 #14 + 1 #16
1 #14 + 1 or 2 #18
1 #16 + 1 to 3 #18
2 #16 + 1 or 2 #18

DX PART # WNP-L



Wire Range:
2 #14
2 to 4 #16
2 to 6 #18
1 #12 + 1 #16 or
1 #18
1 #14 + 1 or 2 #16
1 #14 + 1 to 3 #18
2 #14 + 1 #18
1 #16 + 1 to 3 #18
2 or 3 #16 + 1 #18







DX PART # WNP-XL



Wire Range:
2 or 3 #14
4 #14 SOLID
2 #12

3M SELF-STRIPPING CONNECTORS




These squeeze-shut connectors require no wire stripping or twisting. Just insert the wires, crimp with pliers, and snap the cover in place.

						
Wire Range DX Part #	22-18 to 18-14 SL-R	18-14 to 18-14 SL-B	18-14 to 12-10 SL-BR	12-10 to 12-10 SL-Y	22-16 to 22-16 SL-R2	18-14 to 18-14 SL-W

3M SELF-STRIPPING T-TAP CONNECTORS

When these T-Taps are closed and crimped down over the wire, a female connection is formed with which to snap into a male .250 connector. Great for mid-span connections.

FOR USE WITH .250 MALE CONNECTORS

			
Wire Range DX Part #	22-18 SL-RT	18-14 SL-BT	12 SL-YT

HIGH TEMPERATURE TERMINALS

Nickel plated steel terminals rated **900°F/482°C** continuous operation



AWG	Stud Size	DX Part #
22-18	6	RA6Q-HT/E
22-18	8	RA8Q-HT/E
22-18	10	RA10Q-HT/E
16-14	6	RB6Q-HT/E
16-14	8	RB8Q-HT/E
16-14	10	RB10Q-HT/E
16-14	1/4	RB14Q-HT/E
12-10	6	RC6Q-HT/E
12-10	8	RC8Q-HT/E
12-10	10	RC10Q-HT/E
12-10	1/4	RC14Q-HT/E
12-10	5/16	RC516Q-HT/E
12-10	3/8	RC38Q-HT/T



AWG	DX Part #
22-18	B2218Q-HT/E
16-14	B1614Q-HT/E
12-10	B1210Q-HT/E



AWG	Tab Size	DX Part #
16-14	.187 X .020	SOB187Q-HT/T
16-14	.250 X .032	SOB250Q-HT
12-10	.250 X .032	SOC250Q-HT



AWG	Tab Size	DX Part #
16-14	.250 X .032	SOB250F-HT/T

Other sizes and temperature ratings available.

TERMINALS & CONNECTORS

AIRCRAFT & MILITARY SPECIFICATION

KNIFE DISCONNECTS

WRIST LOCKS

SPARE WIRE CAPS

Nylon Insulated



AWG	22-18	16-14	12-10	22-18	16-14	24-20	22-18	16-14	12-10
DX Part #	KDAN/A	KDBN/A	KDCN/A	WLAN/S	WLBN/S	SWC-W/A	SWC-R/A	SWC-B/A	SWC-Y/A

ENVIRONMENTAL SPLICES

+175°C/347°F MIL-S-81824/1

Sealed crimp splices protect the splice against galvanic action, corrosion, time degradation, and environmental exposures. The splice is made up of a seamless, annealed, tin-plated copper tubing with an insulator of heat-shrinkable polyvinylidene fluoride that has thermoplastic sealing inserts.

Continuous Operation from
-55°C to +175°C



DX Part #	AWG	Color Code	Mil-Spec #
ESB-36	26-20	Red	M81824/1-1
ESB-37	20-16	Blue	M81824/1-2
ESB-38	16-12	Yellow	M81824/1-3

SOLDER SLEEVES -

+150°C/302°F NAS 1745 SERIES

For silver, tin, or nickel plated shield termination applications on wire with insulation material rated at 105°C and above. When heated, the inner solder preform melts and flows to form a superior electrical connection. At the same time, the two thermoplastic sealing inserts melt and the outer sleeve shrinks to provide an environmentally protected termination.

Continuous Operation from -55°C to +150°C

DX Part #	Cable Dimensions		NAS Part #
	Min (in)	Max (in)	
SL-14	.055	.125	NAS 1745-14
SL-15	.100	.200	NAS 1745-15
SL-16	.160	.300	NAS 1745-16



STANDARD WINDOW SPLICES

AMP WINDOW SPLICES



AWG	22-18	16-14	12-10	26-24	24-20	22-18	16-14	12-10
DX Part #	WB2218/E	WB1614/E	WB1210/E	WB2624/A	WB2420/A	WB2218/A	WB1614/A	WB1210/A
AMP Part #	—	—	—	323994	323975	320559	320562	320570
Mil-Spec #	M7928/5-3	M7928/5-4	M7928/5-5	M7928/5-1	M7928/5-2	M7928/5-3	M7928/5-4	M7928/5-5

AIRCRAFT & MILITARY SPECIFICATION

MIL-SPEC TERMINALS CROSS REFERENCE

QPL-AS7928-1 (MIL-T-7928)

SAE-AS25036 TYPE II CLASS 1
INSULATED RING TERMINALS

MS25036	DX Part #	MS25036	DX Part #
-101	RA6SN/E	-130	RP38N/S
-102	RA6N/E	-131	RP12N/S
-103	RA10N/E	-132	RH14N/S
-104	RA516N/E	-133	RH38N/S
-105	RA38N/E	-134	RH12N/S
-106	RB6SN/E	-135	RJ516N/S
-107	RB6N/E	-136	RJ38N/S
-108	RB10N/E	-137	RJ12N/S
-109	RB516N/E	-138	RK38N/S
-110	RB38N/E	-139	RK12N/S
-111	RC6N/E	-140	RL38N/S
-112	RC10N/E	-141	RL12N/S
-113	RC516N/E	-143	RM2N/A
-114	RC38N/E	-144	RM4N/A
-115	RD10SN/S	-145	RM6N/A
-116	RD14N/S	-146	RM8N/A
-117	RD516N/S	-147	RM10N/A
-118	RD38N/S	-148	RA4N/E
-119	RE10N/S	-149	RA8N/E
-120	RE14N/S	-150	RA14N/E
-121	RE516N/S	-151	RA12N/S
-122	RE38N/S	-152	RB4N/E
-123	RF14SN/S	-153	RB8N/E
-124	RF516N/S	-154	RB14N/E
-125	RF38N/S	-155	RB12N/S
-126	RG14SN/S	-156	RC8N/E
-127	RG38N/S	-157	RC14N/E
-128	RG12N/S	-158	RC12N/S
-129	RP14N/S	-159	RA2N/E

SAE-AS20659 TYPE 1 CLASS 1
UNINSULATED RING TERMINALS

MS20659	DX Part #	MS20659	DX Part #
-101	RA6XQ/S	-133	RG12Q/S
-102	RA10XQ/S	-134	RP12Q/S
-103	RB6XQ/S	-135	RH12Q/S
-104	RB10XQ/S	-136	RJ12Q/S
-105	RC10Q/E	-137	RL78Q/B
-106	RC516Q/E	-140	RD8SQ/S
-107	RD10SQ/S	-141	RD14Q/S
-108	RD516Q/S	-142	RD12Q/B
-109	RE14Q/S	-143	RE12Q/B
-110	RE38Q/S	-144	RF10Q/S
-111	RF14SQ/S	-145	RF12Q/B
-112	RF38Q/S	-146	RG10SQ/S
-113	RG14SQ/S	-147	RG516Q/S
-114	RG38Q/S	-148	RG716Q/B
-115	RP14Q/S	-149	RP516Q/S
-116	RP38Q/S	-150	RP716Q/B
-117	RH14Q/S	-151	RH516Q/S
-118	RH38Q/S	-152	RH716Q/S
-119	RJ516Q/S	-153	RJ14Q/S
-120	RJ38Q/S	-154	RJ716Q/S
-121	RK38Q/S	-155	RK516Q/S
-122	RK12Q/S	-156	RK716Q/S
-123	RL38Q/S	-157	RL516Q/S
-124	RL12Q/S	-158	RL716Q/S
-128	RC38Q/E	-159	RL58Q/B
-129	RD38Q/S	-160	RL34Q/B
-130	RE10Q/S	-165	RC6MQ/S
-131	RE516Q/S	-166	RC12Q/S
-132	RF516Q/S		

TERMINALS & CONNECTORS

MOISTURE RESISTANT HEAT SHRINK CONNECTORS

These connectors have a polyolefin heat shrink tubing cover with an inner adhesive sealant. When heat is applied and the tubing shrinks, the adhesive flows creating a moisture and corrosion proof connection.

Operating Temperature: -40°F to 230°F (-40°C to 110°C).

Shrink Temperature: 212°F (100°C).

Highly resistant to water, solvents, and chemical penetration.

Rings



AWG	Stud Size	DX Part #
22-18	6	HSP-RA6Q/F
22-18	8	HSP-RA8Q/F
22-18	10	HSP-RA10Q/F
22-18	1/4	HSP-RA14Q/F
22-18	5/16	HSP-RA516Q/F
22-18	3/8	HSP-RA38Q/F
16-14	6	HSP-RB6Q/F
16-14	8	HSP-RB8Q/F
16-14	10	HSP-RB10Q/F
16-14	1/4	HSP-RB14Q/F
16-14	5/16	HSP-RB516Q/F
16-14	3/8	HSP-RB38Q/F
12-10	6	HSP-RC6Q/F
12-10	8	HSP-RC8Q/F
12-10	10	HSP-RC10Q/F
12-10	1/4	HSP-RC14Q/F
12-10	5/16	HSP-RC516Q/F
12-10	3/8	HSP-RC38Q/F
8	10	HSP-RD10Q/F
8	1/4	HSP-RD14Q/F
8	5/16	HSP-RD516Q/F
8	3/8	HSP-RD38Q/F
8	1/2	HSP-RD12Q/F

Butt Connectors



AWG	DX Part #
22-18	HSP-B2218Q/F
16-14	HSP-B1614Q/F
12-10	HSP-B1210Q/F
8	HSP-B8Q/F

Step Down Butt Connectors



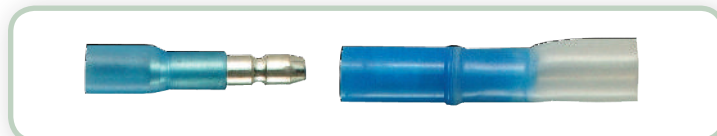
AWG	DX Part #
22-18 AND 16-14	HSP-SDB22-14Q/F
16-14 AND 12-10	HSP-SDB16-10Q/F
12-10 AND 8	HSP-SDB12-8Q/F

Quick Disconnects—Fully Insulated



AWG	Tab Size	Style	DX Part #
22-18	.250 X .032	MALE	HSP-ILC-A-T/F
22-18	.250 X .032	FEMALE	HSP-ILC-A-R/F
16-14	.250 X .032	MALE	HSP-ILC-B-T/F
16-14	.250 X .032	FEMALE	HSP-ILC-B-R/F
12-10	.250 X .032	MALE	HSP-ILC-C-T/F
12-10	.250 X .032	FEMALE	HSP-ILC-C-R/F

Snap Plugs and Receptacles



AWG	Tab Size	Style	DX Part #
22-18	.156	MALE	HSP-SPA156Q/F
22-18	.156	FEMALE	HSP-FPA156/F
16-14	.156	MALE	HSP-SPB156Q/F
16-14	.156	FEMALE	HSP-FPB156/F

Also available in tab size .180. Please contact our sales department for assistance.

INSULATED WIRE FERRULES

Ferrules are used to ensure a reliable electrical connection when terminating conductors in screw clamp terminal blocks. Fraying and breaking of wire strands is prevented and the possibility of an unreliable connection is minimized. Insulated ferrules prevent conductor breakage due to bending, wire stress or vibration, while facilitating wire insertions into a terminal block clamp. Ferrules are thin-walled copper tubes, which are mechanically crimped onto the ends of stranded wires. They are the preferred alternative to twisting wire strands or tinning the wire end before terminating into a terminal block.

Color Code: DN 46228, part 4

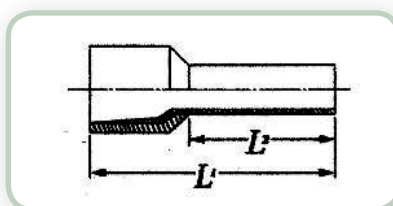
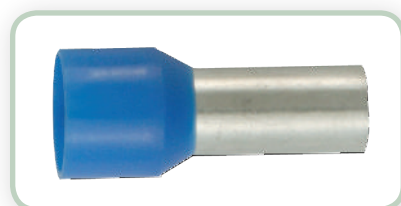
Material: Tin Plated Copper

Insulation: Polypropylene Plastic

Conductor Size		DX Part #	Color	Dimensions Inches (mm)	
AWG	(mm2)			L1	L2
28-26	(0.14)	F28/26-6GY	GRAY	.409 (10.4)	.236 (6)
	(0.14)	F28/26-8GY		.488 (12.4)	.315 (8)
26-24	(0.25)	F26/24-6YW	YELLOW	.433 (11)	.236 (6)
	(0.25)	F26/24-8YW		.511 (13)	.315 (8)
24-22	(0.34)	F24/22-6TQ	TURQUOISE	.409 (10.4)	.236 (6)
	(0.34)	F24/22-8TQ		.488 (12.4)	.315 (8)
22-20	(0.50)	F22/20-6WE	WHITE	.471 (12)	.236 (6)
	(0.50)	F22/20-8WE		.551 (14)	.315 (8)
	(0.50)	F22/20-10WE		.630 (16)	.394 (10)
20-18	(0.75)	F20/18-6GY	GRAY	.471 (12)	.236 (6)
	(0.75)	F20/18-8GY		.551 (14)	.315 (8)
	(0.75)	F20/18-10GY		.630 (16)	.394 (10)
	(0.75)	F20/18-12GY		.709 (18)	.471 (12)
18-17	(1)	F18/17-6RD	RED	.471 (12)	.236 (6)
	(1)	F18/17-8RD		.551 (14)	.315 (8)
	(1)	F18/17-10RD		.630 (16)	.394 (10)
	(1)	F18/17-12RD		.709 (18)	.471 (12)
16	(1.5)	F16-8BK	BLACK	.551 (14)	.315 (8)
	(1.5)	F16-10BK		.630 (16)	.394 (10)
	(1.5)	F16-12BK		.709 (18)	.471 (12)
	(1.5)	F16-18BK		.945 (24)	.709 (18)

Conductor Size		DX Part #	Color	Dimensions Inches (mm)	
AWG	(mm2)			L1	L2
14	(2.5)	F14-8BE	BLUE	.551 (14)	.315 (8)
	(2.5)	F14-12BE		.709 (18)	.471 (12)
	(2.5)	F14-18BE		.945 (24)	.709 (18)
12	(4)	F12-10GY	GRAY	.699 (17)	.394 (10)
	(4)	F12-12GY		.787 (20)	.471 (12)
	(4)	F12-18GY		1.024 (26)	.709 (18)
10	(6)	F10-12YW	YELLOW	.787 (20)	.471 (12)
	(6)	F10-18YW		1.024 (26)	.709 (18)
8	(10)	F8-12RD	RED	.866 (22)	.471 (12)
	(10)	F8-18RD		1.102 (28)	.709 (18)
6	(16)	F6-12BE	BLUE	.945 (24)	.471 (12)
	(16)	F6-18BE		1.102 (28)	.709 (18)
4	(25)	F4-16YW	YELLOW	1.181 (30)	.630 (16)
	(25)	F4-18YW		1.260 (32)	.709 (18)
	(25)	F4-22YW		1.417 (36)	.866 (22)
2	(35)	F2-16RD	RED	1.181 (30)	.630 (16)
	(35)	F2-18RD		1.260 (32)	.709 (18)
	(35)	F2-25RD		1.535 (39)	.984 (25)
1/0	(50)	F1/0-20BE	BLUE	1.417 (36)	.787 (20)
	(50)	F1/0-25BE		1.575 (40)	.984 (25)

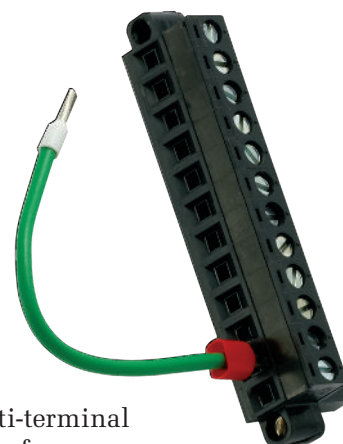
Other sizes and color codes may be available upon request. Please contact our sales department for more information.



TERMINAL BLOCKS

Offered in numerous pitches, rows, configurations, levels, and styles.

We offer a wide variety of terminal blocks. Our selection includes barrier terminal strips, European terminal blocks, 2-screw European style, and multi-terminal connectors. Please contact our sales department for the style you are looking for.



TERMINALS & CONNECTORS

NON-INSULATED WIRE FERRULES

DN 46228, part 1

Material: Tin Plated Copper

Conductor Size		DX Part #	Dimensions Inches (mm)
AWG	(mm2)		L
26-24	(0.25)	F26/24-5Q	.197 (5)
		F26/24-7Q	.276 (7)
24-22	(0.34)	F24/22-5Q	.197 (5)
		F24/22-7Q	.276 (7)
22-20	(0.50)	F22/20-6Q	.236 (6)
		F22/20-8Q	.315 (8)
		F22/20-10Q	.394 (10)
20-18	(0.75)	F20/18-6Q	.236 (6)
		F20/18-8Q	.315 (8)
		F20/18-10Q	.394 (10)
		F20/18-15Q	.591 (15)
18-17	(1)	F18/17-6Q	.236 (6)
		F18/17-8Q	.315 (8)
		F18/17-10Q	.394 (10)
		F18/17-12Q	.471 (12)
16	(1.5)	F16-7Q	.276 (7)
		F16-10Q	.394 (10)
		F16-12Q	.471 (12)
		F16-15Q	.591 (15)
		F16-18Q	.709 (18)
		F16-20Q	.787 (20)
14	(2.5)	F14-7Q	.276 (7)
		F14-10Q	.394 (10)
		F14-12Q	.471 (12)
		F14-15Q	.591 (15)
12	(4)	F12-9Q	.354 (9)
		F12-12Q	.471 (12)
		F12-15Q	.591 (15)
		F12-18Q	.709 (18)
10	(6)	F10-10Q	.394 (10)
		F10-12Q	.471 (12)
		F10-15Q	.591 (15)
		F10-18Q	.709 (18)
		F10-20Q	.787 (20)
		F10-25Q	.984 (25)

Conductor Size		DX Part #	Dimensions Inches (mm)
AWG	(mm2)		L
8	(10)	F8-12Q	.471 (12)
		F8-15Q	.591 (15)
		F8-18Q	.709 (18)
		F8-20Q	.787 (20)
6	(16)	F6-12Q	.471 (12)
		F6-15Q	.591 (15)
		F6-18Q	.709 (18)
		F6-20Q	.787 (20)
4	(25)	F4-12Q	.471 (12)
		F4-15Q	.591 (15)
		F4-20Q	.787 (20)
		F4-25Q	.984 (25)
2	(35)	F2-15Q	.591 (15)
		F2-18Q	.709 (18)
		F2-22Q	.866 (22)
		F2-25Q	.984 (25)
1/0	(50)	F1/0-18Q	.709 (18)
		F1/0-22Q	.866 (22)
		F1/0-25Q	.984 (25)
		F1/0-30Q	1.181 (30)
2/0	(70)	F2/0-22Q	.866 (22)
		F2/0-25Q	.984 (25)
		F2/0-30Q	1.181 (30)
3/0	(95)	F3/0-25Q	.984 (25)
		F3/0-30Q	1.181 (30)
		F3/0-32Q	1.260 (32)
		F3/0-34Q	1.339 (34)
4/0	(120)	F4/0-30Q	1.181 (30)
		F4/0-32Q	1.260 (32)
		F4/0-34Q	1.339 (34)
		F4/0-38Q	1.496 (38)
		F4/0-40Q	1.575 (40)

Other sizes available upon request. Please contact our sales department for more information.

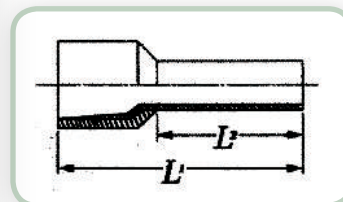
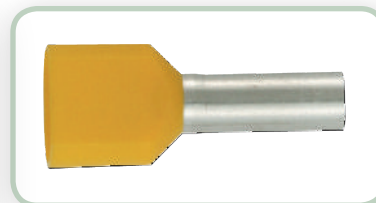


INSULATED TWIN WIRE FERRULES






Material: Tin Plated Copper

Insulation: Polypropylene Plastic

Conductor Size		DX Part #	Color	Dimensions Inches (mm)	
AWG	(mm ²)			L1	L2
2 x 22-20	2 x (0.50)	F22/20-8X2WE	WHITE	.591 (15)	.315 (8)
2 x 20-18	2 x (0.75)	F20/18-8X2GY	GRAY	.591 (15)	.315 (8)
		F20/18-10X2GY		.669 (17)	.394 (10)
2 x 18-17	2 x (1)	F18/17-8X2RD	RED	.591 (15)	.315 (8)
		F18/17-10X2RD		.669 (17)	.394 (10)
2 x 16	2 x (1.5)	F16-8X2BK	BLACK	.630 (16)	.315 (8)
		F16-12X2BK		.787 (20)	.471 (12)
2 x 14	2 x (2.5)	F14-10X2BE	BLUE	.728 (18.5)	.394 (10)
		F14-13X2BE		.846 (21.5)	.512 (13)
2 x 12	2 x (4)	F12-12X2GY	GRAY	.906 (23)	.471 (12)
2 x 10	2 x (6)	F10-14X2YW	YELLOW	1.024 (26)	.551 (14)
2 x 8	2 x (10)	F8-14X2RD	RED	1.024 (26)	.551 (14)
2 x 6	2 x (16)	F6-14X2BE	BLUE	1.181 (30)	.551 (14)



FERRULE CRIMP TOOLS

26-10 AWG	10-6 AWG	8-1/0 AWG	1/0-3/0 AWG	28-1/0 AWG	
PZ 6 ROTO	K34	K28/FD	K29/FD	ERG-2	
					
Built-in rotating die (adjusts to correct awg) for front or side ferrule insertion. Ergonomic handles for low effort operation.	Makes trapezoidal crimps with full cycle ratchet mechanism to assure complete crimps. One die nest adjusts automatically to correct crimp size.	Makes trapezoidal crimps with full cycle ratchet mechanism to assure complete crimps.	Makes trapezoidal crimps with full cycle ratchet mechanism to assure complete crimps.	Sta-Kon ratchet tool with interchangeable dies to crimp wire range 28 - 1/0 awg. Packaged in a sturdy plastic carrying case.	
Length Weight	7.5" 0.8 lbs.	8.9" 1.1 lbs.	13.0" 1.8 lbs.	13.0" 1.8 lbs.	9.6" 1.5 lbs.

TERMINALS & CONNECTORS

COLOR CODED LUGS

UL **SP** 90°C (194°F) 35KV

Seamless, one piece, pure copper construction with tin plating assures maximum conductivity.

Available for stranded copper 8 AWG thru 2000 MCM.

Color Coded Lugs Standard Barrel/One Hole

DX Part #	AWG	Wire Dia. (in)	Stud Size	Color Code
CCR8-10	8	.146	10	RED
CCR8-14	8	.146	1/4	RED
CCR8-516	8	.146	5/16	RED
CCR8-38	8	.146	3/8	RED
CCR6-10	6	.184	10	BLUE
CCR6-14	6	.184	1/4	BLUE
CCR6-516	6	.184	5/16	BLUE
CCR6-38	6	.184	3/8	BLUE
CCR4-14	4	.232	1/4	GRAY
CCR4-516	4	.232	5/16	GRAY
CCR4-38	4	.232	3/8	GRAY
CCR2-14	2	.292	1/4	BROWN
CCR2-516	2	.292	5/16	BROWN
CCR2-38	2	.292	3/8	BROWN
CCR2-12	2	.292	1/2	BROWN
CCR1-14	1	.332	1/4	GREEN
CCR1-516	1	.332	5/16	GREEN
CCR1-38	1	.332	3/8	GREEN
CCR1-12	1	.332	1/2	GREEN
CCR10-14	1/0	.375	1/4	PINK
CCR10-516	1/0	.375	5/16	PINK
CCR10-38	1/0	.375	3/8	PINK
CCR10-12	1/0	.375	1/2	PINK
CCR20-14	2/0	.419	1/4	BLACK
CCR20-516	2/0	.419	5/16	BLACK
CCR20-38	2/0	.419	3/8	BLACK
CCR20-12	2/0	.419	1/2	BLACK
CCR30-516	3/0	.470	5/16	ORANGE
CCR30-38	3/0	.470	3/8	ORANGE
CCR30-12	3/0	.470	1/2	ORANGE
CCR40-516	4/0	.528	5/16	PURPLE
CCR40-38	4/0	.528	3/8	PURPLE
CCR40-12	4/0	.528	1/2	PURPLE
CCR250-14	250 MCM	.575	1/4	YELLOW
CCR250-516	250 MCM	.575	5/16	YELLOW
CCR250-38	250 MCM	.575	3/8	YELLOW
CCR250-12	250 MCM	.575	1/2	YELLOW
CCR300-516	300 MCM	.634	5/16	WHITE
CCR300-38	300 MCM	.634	3/8	WHITE
CCR300-12	300 MCM	.634	1/2	WHITE
CCR350-38	350 MCM	.682	3/8	RED
CCR350-12	350 MCM	.682	1/2	RED
CCR400-12	400 MCM	.728	1/2	BLUE
CCR400-58	400 MCM	.728	5/8	BLUE
CCR500-12	500 MCM	.815	1/2	BROWN
CCR500-58	500 MCM	.815	5/8	BROWN
CCR600-12	600 MCM	.893	1/2	GREEN
CCR600-58	600 MCM	.893	5/8	GREEN
CCR650-12	650 MCM	.930	1/2	PINK
CCR650-58	650 MCM	.930	5/8	PINK
CCR750-58	750 MCM	.999	5/8	BLACK
CCR1000-58	1000 MCM	1.153	5/8	WHITE
CCR1500-34	1500 MCM	1.412	3/4	GREEN
CCR2000-34	2000 MCM	1.632	3/4	BROWN



Standard Barrel/Two Hole

DX Part #	AWG	Stud Size	Stud Centers (in)	Color
CCR8-10X2B	8	10	5/8	RED
CCR6-14X2B	6	1/4	5/8	BLUE
CCR6-12X2K	6	1/2	1 3/4	BLUE
CCR4-14X2B	4	1/4	5/8	GRAY
CCR2-14X2B	2	1/4	5/8	BROWN
CCR2-12X2K	2	1/2	1 3/4	BROWN
CCR1-14X2B	1	1/4	5/8	GREEN
CCR1-516X2D	1	5/16	7/8	GREEN
CCR10-516X2D	1/0	5/16	7/8	PINK
CCR10-38X2E	1/0	3/8	1	PINK
CCR10-12X2K	1/0	1/2	1 3/4	PINK
CCR20-516X2D	2/0	5/16	7/8	BLACK
CCR20-38X2E	2/0	3/8	1	BLACK
CCR20-12X2K	2/0	1/2	1 3/4	BLACK
CCR30-516X2D	3/0	5/16	7/8	ORANGE
CCR30-38X2E	3/0	3/8	1	ORANGE
CCR30-12X2K	3/0	1/2	1 3/4	ORANGE
CCR40-38X2E	4/0	3/8	1	PURPLE
CCR40-12X2K	4/0	1/2	1 3/4	PURPLE
CCR250-38X2E	250 MCM	3/8	1	YELLOW
CCR250-12X2K	250 MCM	1/2	1 3/4	YELLOW
CCR300-38X2E	300 MCM	3/8	1	WHITE
CCR300-12X2K	300 MCM	1/2	1 3/4	WHITE
CCR350-38X2E	350 MCM	3/8	1	RED
CCR350-12X2K	350 MCM	1/2	1 3/4	RED
CCR400-38X2E	400 MCM	3/8	1	BLUE
CCR400-12X2K	400 MCM	1/2	1 3/4	BLUE
CCR500-38X2E	500 MCM	3/8	1	BROWN
CCR500-12X2K	500 MCM	1/2	1 3/4	BROWN
CCR600-12X2K	600 MCM	1/2	1 3/4	GREEN
CCR650-12X2K	650 MCM	1/2	1 3/4	PINK
CCR750-12X2K	750 MCM	1/2	1 3/4	BLACK
CCR1000-12X2K	1000 MCM	1/2	1 3/4	WHITE
CCR1500-12X2K	1500 MCM	1/2	1 3/4	GREEN
CCR2000-12X2K	2000 MCM	1/2	1 3/4	BROWN

For **long barrel**, add the suffix "-LB" to the part number (most sizes available). Some sizes available with **flared wire barrel**. Please call our sales department for assistance.

TERMINALS & CONNECTORS



We also offer LONG BARREL, BENT, NARROW TONGUE, & METRIC lugs. Please contact our sales department for more information



Experience. Technology. Answers.™

PENN-UNION CORP.

Thomas & Betts

ILSCO

We carry the full line of T&B, BURNDY, ILSCO, & Penn-Union lugs

DX Part #	AWG	Wire Dia. (in)	Length Standard Barrel (in)	Length Long Barrel (in)
CCB8	8	.146	1 1/16	2
CCB6	6	.184	1 3/4	2 3/8
CCB4	4	.232	1 3/4	2 3/8
CCB2	2	.292	1 7/8	2 5/8
CCB1	1	.332	1 7/8	2 7/8
CCB10	1/0	.375	1 7/8	2 7/8
CCB20	2/0	.419	2	3 1/8
CCB30	3/0	.470	2 1/8	3 1/8
CCB40	4/0	.528	2 1/8	3 3/8
CCB250	250 MCM	.575	2 1/4	3 3/8
CCB300	300 MCM	.634	2 1/4	4 1/8
CCB350	350 MCM	.682	2 3/8	4 1/8
CCB400	400 MCM	.728	2 1/2	4 3/8
CCB500	500 MCM	.815	2 7/8	4 5/8
CCB600	600 MCM	.893	2 7/8	5 1/2
CCB650	650 MCM	.930	2 7/8	5 5/8
CCB750	750 MCM	.999	3 3/8	5 7/8
CCB800	800 MCM	1.031	3 3/8	6
CCB1000	1000 MCM	1.153	3 7/8	6 1/8
CCB1500	1500 MCM	1.412	4 1/8	6 1/2
CCB2000	2000 MCM	1.632	4 5/8	7

For long barrel, add the suffix "-LB" to the part number. Some sizes available with flared wire barrel. Please contact our sales department for assistance.

COLOR CODED BUTT CONNECTORS

UL SF 90°C (194°F)

Seamless, one piece, pure copper, with tin plating. Available for 8 AWG thru 2000 MCM. Splices are suitable for use at voltages up to 35KV provided connector is taped in accordance with accepted practices. 5KV is maximum voltage level in all bare splice applications.



CRIMP TOOLS FOR COLOR CODED LUGS ON PAGE 73



TERMINALS & CONNECTORS

COPPER CABLE LUGS

UL 600V

Annealed Copper

Also available tin plated
and/or color coded

DX Part #	AWG	Stud Size	DX Part #	AWG	Stud Size
ST8-10	8	10	ST1-516	1	5/16
ST8-14	8	1/4	ST1-38	1	3/8
ST8-516	8	5/16	ST1-12	1	1/2
ST6-10	6	10	ST10-516	1/0	5/16
ST6-14	6	1/4	ST10-38	1/0	3/8
ST6-516	6	5/16	ST10-12	1/0	1/2
ST6-38	6	3/8	ST20-14	2/0	1/4
ST4-10	4	10	ST20-516	2/0	5/16
ST4-14	4	1/4	ST20-38	2/0	3/8
ST4-516	4	5/16	ST20-12	2/0	1/2
ST4-38	4	3/8	ST30-38	3/0	3/8
ST4-12	4	1/2	ST30-12	3/0	1/2
ST2-14	2	1/4	ST40-38	4/0	3/8
ST2-516	2	5/16	ST40-12	4/0	1/2
ST2-38	2	3/8	ST250-38	250 MCM	3/8
ST2-12	2	1/2	ST250-12	250 MCM	1/2

Other sizes available.



COPPER MECHANICAL LUGS

UL SP 600V

Copper Conductors Only



DX Part #	Wire Range	Hex Size	Stud Size
L35	8 - 14	SLOT	10
L70	4 - 14	SLOT	1/4
L125	1/0 - 8	1/4	5/16
L250	250 MCM - 6	1/4	3/8

Aluminum Mechanical Lugs

UL SP 600V 90°C

One Conductor

Suitable for use with either copper or aluminum conductors. Electro-Tin Plated.

Other configurations of copper
and aluminum mechanical lugs
are available.

DX Part #	Wire Range	Hex Size	Stud Size
ADR6	4 - 14	SLOT	1/4
ADR2	2 - 14	SLOT	1/4
ADR10	1/0 - 14	SLOT	1/4
ADR20	2/0 - 14	3/16	1/4
ADR250	250 MCM - 6	5/16	5/16

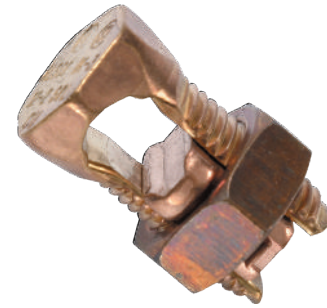


SPLIT BOLT CONNECTORS

  600V

*For copper to copper connections.
Hex nut and bolt design.*

DX Part #	Range for Equal Main and Tap	Min. Tap with One Max. Main
SB-9H	10 STR - 12 SOL	14 SOL
SB-8H	16 STR - 8 STR	16 STR
SB-6H	10 SOL - 6 SOL	16 SOL
SB-4H	8 SOL - 4 SOL	16 SOL
SB-2H	6 SOL - 2 SOL	12 SOL
SB-1H	6 SOL - 2 STR	14 STR
SB-10H	4 SOL - 1/0 STR	14 SOL
SB-20H	2 SOL - 2/0 STR	14 STR
SB-30H	2 SOL - 3/0 STR	12 SOL
SB-40H	1/0 SOL - 250 MCM	10 SOL

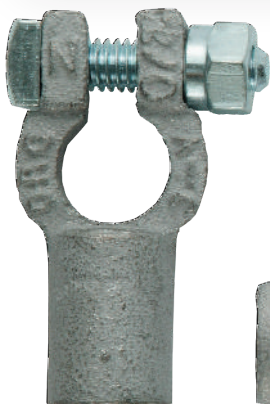


Crimp Type Battery Terminals

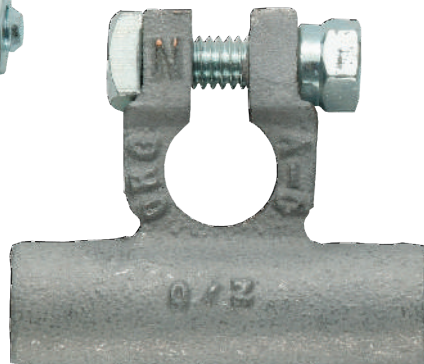
Solid Copper • Lead Plated

We also stock Marine Battery Terminals!

AWG	Post Type	Straight DX Part #	Flag DX Part #	Left Elbow DX Part #	Right Elbow DX Part #
4	UNIVERSAL	SBT-4U	—	—	—
2 & 1	NEG	SBT-2-1N	—	—	—
2 & 1	POS	SBT-2-1P	—	—	—
1/0	NEG	SBT-10N	SBTF-10N	SBTL-10N	SBTR-10N
1/0	POS	SBT-10P	SBTF-10P	SBTL-10P	SBTR-10P
2/0	NEG	SBT-20N	SBTF-20N	SBTL-20N	SBTR-20N
2/0	POS	SBT-20P	SBTF-20P	SBTL-20P	SBTR-20P
3/0	NEG	SBT-30N	SBTF-30N	SBTL-30N	SBTR-30N
3/0	POS	SBT-30P	SBTF-30P	SBTL-30P	SBTR-30P
4/0	NEG	SBT-40N	SBTF-40N	—	—
4/0	POS	SBT-40P	SBTF-40P	—	—



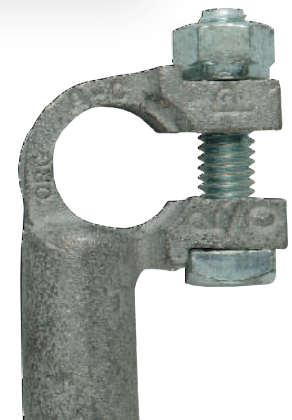
Straight



Flag



Left Elbow



Right Elbow

CABLE TIES & MOUNTS

CABLE TIES

These all-nylon cable ties are manufactured with 6/6 nylon and come in a variety of sizes and styles. They are used for securing hoses, wire, tubing, etc. Most of the ties are UL listed and many are Mil-spec approved. Also, some ties are available in special materials (see page 44) to accommodate harsh environments.

Standard Cable Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NT-3	18	3.37	0.080	0.63	MS3367-4
NT-4	18	4.00	0.100	0.75	MS3367-4
NT-6S	18	5.67	0.100	1.25	
NT-8S	18	8.00	0.100	2.00	
NT-5	30	5.20	0.115	1.00	
NT-6	30	6.00	0.140	1.25	MS3367-5
NT-8I	30	8.00	0.140	2.00	
NT-11I	30	11.25	0.140	3.00	
NT-14I	30	14.25	0.140	4.00	
NT-8M	40	8.50	0.150	2.00	MS3367-1
NT-11M	40	11.50	0.150	3.00	MS3367-7
NT-14M	40	14.50	0.150	4.00	MS3367-2
NT-7	50	8.00	0.180	1.75	MS3367-1
NT-11	50	11.75	0.180	3.00	MS3367-7
NT-14	50	15.50	0.180	4.00	MS3367-2

Heavy Duty Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NTH-8	120	8.88	0.300	2.00	
NTH-11	120	11.88	0.300	3.00	
NTH-14	120	15.25	0.300	4.00	MS3367-3
NTH-21	120	21.50	0.310	6.00	
NTH-28	120	29.75	0.300	8.75	MS3367-6

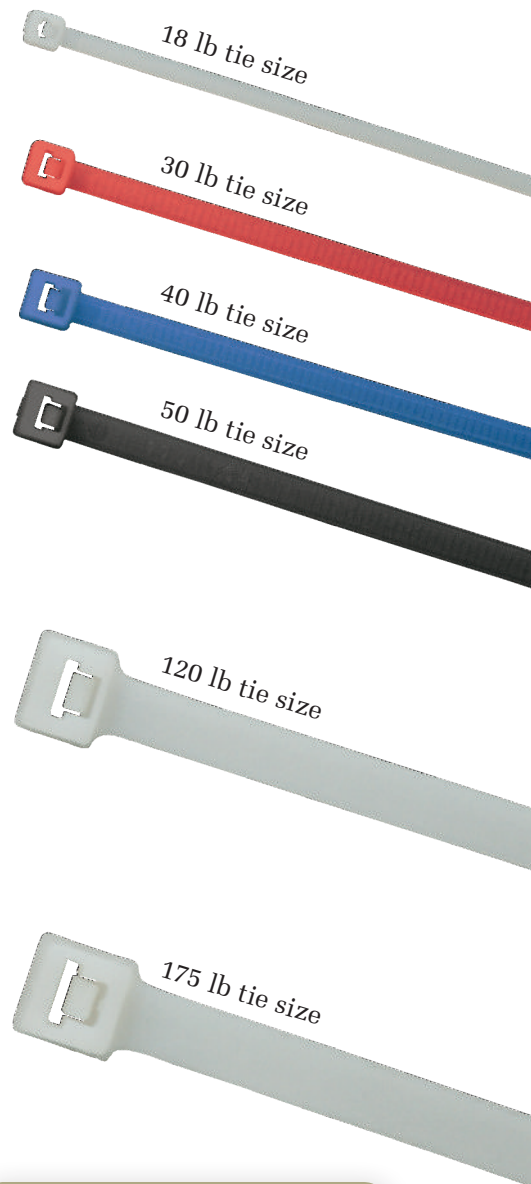
Extra Heavy Duty Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NTXH-14	175	15.00	0.350	4.00	
NTXH-21	175	21.00	0.350	6.00	
NTXH-32	175	32.00	0.350	9.00	
NTXH-36	175	36.00	0.350	11.00	
NTXH-42	175	43.00	0.350	13.00	
NTXH-52	175	52.00	0.350	14.00	

- Part numbers listed are for natural colored ties.
- Black ultraviolet resistant ties for outdoor use are also available. To order black, add the letter "B" to the end of the part number.
- A variety of other colors are available in most sizes.
- Cable ties are offered in both small and bulk packaging.

Full line of Black UV Ties also in stock.

To order, add the letter "B" to the end of the part number.



For 250 lb Lashing Ties also available.



Screw Mount Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Mounting Stud Size
NTM-4	18	4.25	0.100	0.75	#4
NTM-6	30	6.25	0.140	1.25	#8
NTM-7	50	8.50	0.180	1.75	#10
NTM-14	50	16.00	0.180	4.00	#10
NTHM-14	120	16.25	0.300	4.00	1/4

Available in Natural and Black.

Stainless Steel Ties:

Choose between 304 material & 316 material (specs on page 42)

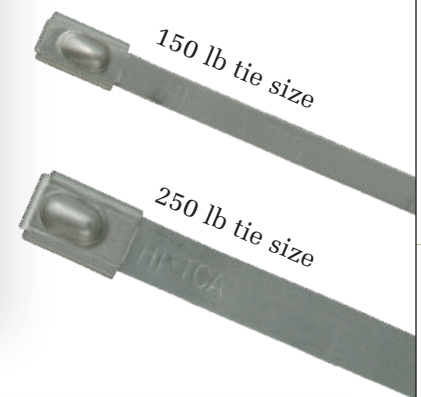
DX Part #	DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)
NT-5-SS304	NT-5-SS316	150	5.00	0.180	1.00
NT-8-SS304	NT-8-SS316	150	7.90	0.180	2.00
NT-14-SS304	NT-14-SS316	150	14.30	0.180	4.00
NT-20-SS304	NT-20-SS316	150	20.50	0.180	6.00
NT-26-SS304	NT-26-SS316	150	26.80	0.180	8.00
NT-33-SS304	NT-33-SS316	150	33.00	0.180	10.00
NTH-8-SS304	NTH-8-SS316	250	7.90	0.310	2.00
NTH-14-SS304	NTH-14-SS316	250	14.30	0.310	4.00
NTH-20-SS304	NTH-20-SS316	250	20.50	0.310	6.00
NTH-26-SS304	NTH-26-SS316	250	26.80	0.310	8.00
NTH-33-SS304	NTH-33-SS316	250	33.00	0.310	10.00

Flame Retardant Ties 94V-0

Manufactured with 6/6 nylon that has a 94V-0 flammability rating.

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)
NT-4-FR	18	4.00	0.100	0.75
NT-6S-FR	18	5.60	0.100	1.25
NT-8S-FR	18	8.00	0.100	2.00
NT-6-FR	30	6.00	0.140	1.25
NT-7-FR	50	8.00	0.180	1.75
NT-11-FR	50	11.75	0.180	3.00
NT-14-FR	50	15.50	0.180	4.00

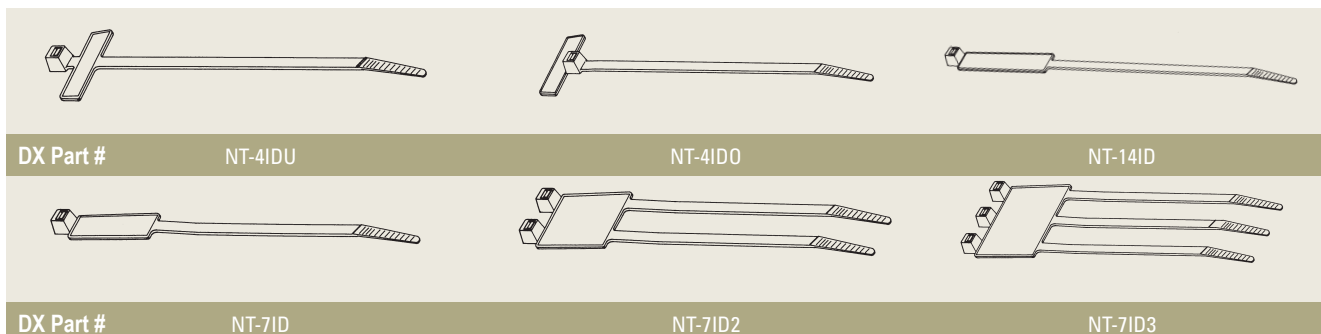
Available in Natural and Black.



Identification Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Marking Pad Size W x H (in)	Military Standard
NT-4IDU	18	4.00	0.100	0.75	1.000 x .297	MS3368-5-E
NT-4IDO	18	4.25	0.100	0.75	.813 x .312	
NT-7ID	50	8.00	0.180	1.75	.438 x 1.000	MS3368-1-A
NT-7ID2	50	8.00	0.180	1.75	1.6875 x .938	MS3368-3-C
NT-7ID3	50	8.00	0.180	1.75	1.812 x .938	MS3368-4-D
NT-14ID	50	15.00	0.180	4.00	.500 x 2.125	MS3368-2-A

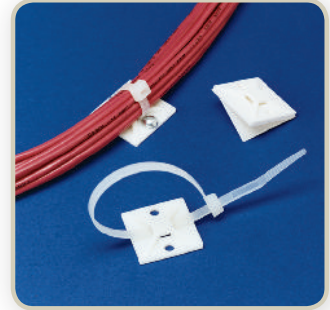
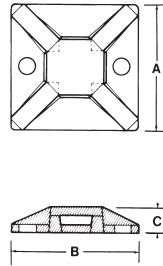
Part numbers listed are for natural colored ties. A variety of other colors are available in most sizes.



CABLE TIES & MOUNTS

ADHESIVE BACK MOUNTS

Four-way mounting bases are available in four sizes to accommodate 18 lb to 175 lb cable ties. Insertion of cable ties can be made from all four sides. Each mount may be secured with two screws, with adhesive backing, or both for ease of application and stability. Two-way mounting bases have one screw hole in the center, and cable ties are inserted from two sides. For applications where higher temperatures, certain chemicals, or UV radiation are a concern, the acrylic adhesive mounting base is recommended.

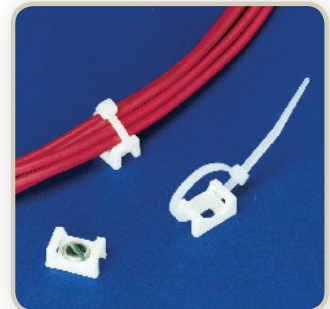
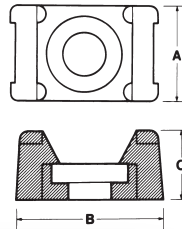


DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
4-Way Mount					
ABMSM	18	#3	0.625	0.625	0.130
ABMM	18 - 30	#4	0.750	0.750	0.150
ABM-4W	18 - 50	#8	1.125	1.125	0.190
ABM-HD	18 - 175	#8	1.500	1.500	0.250
2-Way Mount					
ABM-2W	18 - 50	#6	1.125	1.125	0.210

Rubber-based adhesive is standard. Non-adhesive and acrylic adhesive are also available upon request. Available in standard white and also black. Contact our sales department for assistance.

CABLE TIE MOUNTS (CTM)

The CTM series is designed to provide stability to wire bundles. These mounts can accommodate 18lb to 120lb cable ties. Each mount is secured with a single screw.



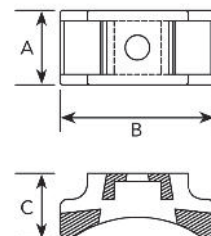
DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
CTM-0	18 - 50	#6	0.380	0.600	0.265
CTM-1	18 - 50	#8	0.380	0.600	0.265
CTM-2	18 - 120	#8	0.620	0.875	0.375
CTM-3	18 - 120	#10	0.620	0.875	0.375
CTM-4	18 - 120	1/4"	0.620	0.875	0.375

Available in standard white and also black.

LARGE SADDLE MOUNT

This mounting cradle holds cables and harnesses secure yet clear of the panel surface. The standard color is black.

DX Part #	Tie Size Used (lb)	Max. Bundle Diameter (in)	Dimensions (in)		
			A	B	C
LKCSF1	50-250	3.0	.75	1.6	.66



CABLE TIE MOUNTS - LOW PROFILE

Low profile mounts are intended for use in securing bundles where space is limited. Each mount is fastened with a single screw.

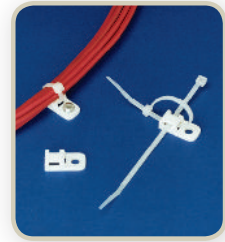


DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
MB-1	18	#2	0.315	0.495	0.135
MB-2	18 - 50	#8	0.495	0.810	0.135

Available only in standard white.

CABLE TIE ANCHOR MOUNTS (CTAM)

Cable ties may be inserted from any of the four sides of the CTAM. This feature allows the mount to be placed either parallel or perpendicular to the wires.

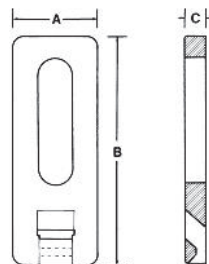


DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
CTAM-1	18 - 50	#8	0.400	0.800	0.200
CTAM-2	18 - 50	#10	0.400	0.800	0.200

Available in standard white and also black.

CABLE TIE ANCHOR PLATES

These plates have slotted mounting holes to provide for easier alignment of mount and bundles. The CTAP-2 allows an additional screw for maximum stability. Both plates are used perpendicularly to the wire bundle.

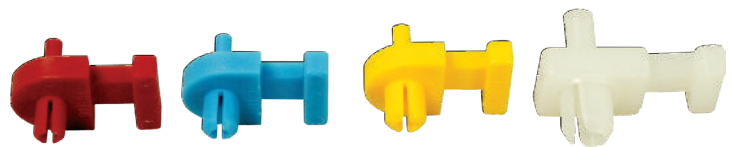
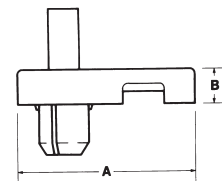


DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
CTAP-1	18 - 50	#10	0.500	1.340	0.150
CTAP-2	18 - 50	#10	0.500	2.130	0.150
TP4H-C/S	18-120	1/4	0.625	3.08	0.200

Available in standard white. CTAP-2 is also available in black.

SELF-RIVETING BASE

The low profile rivet mount is designed to secure wire bundles and it fastens with the drive rivet through a predrilled hole. This mount is ideal for use in applications where space is limited.



DX Part #	Tie Size Used (lb)	Screw Hole	Dimensions (in)		
			A	B	C
SRB-6-RD	18 - 50	0.146	0.750	0.128	0.500
SRB-8-BE	18 - 50	0.169	0.750	0.128	0.500
SRB-10-YW	18 - 50	0.196	0.750	0.128	0.500
SRB-14-NL	18 - 50	0.250	0.945	0.160	0.470



CABLE TIES & MOUNTS

HEAVY DUTY MOUNTS

Heavy duty mounts are designed for use with heavy duty cable ties and wide strap cable ties to harness wires and hoses; however, they accept all standard cable ties up to 1/2" wide.

These mounts contain a small tab inside the mounting hole to temporarily engage the threads, which allows assemblers to pre-install the mount on a stud before securing with a washer and a nut.

The arched "H" profile of the saddle surface allows for a broad surface contact with the bundle, minimizing pinching and crushing of the bundles.

The mounts are available in standard, medium and high torque versions. The high torque version is designed for use with power-assisted impact wrenches and is molded with a metal bushing to withstand the forces required to tighten grade 8 bolts.

Standard color: Black

Standard material: Impact modified, heat stabilized, UV resistant, nylon 6/6

	DX Part #	Mounting Hole	Max Torque	Max. Dia. For Washer/Socket (in)	Length (in)	Width (in)
STANDARD TORQUE	HDM-10	#10	115 lb - in	.73	1.43	.76
	HDM-14	1/4"	115 lb - in	.73	1.43	.76
	HDM-516	5/16"	115 lb - in	.73	1.43	.76
MEDIUM TORQUE	HDM-MT-516	5/16"	40 lb - ft	.90	1.82	.96
	HDM-MT-38	3/8"	40 lb - ft	.90	1.82	.96
	HDM-MT-12	1/2"	40 lb - ft	.90	1.82	.96
HIGH TORQUE	HDM-HT-516	5/16"	114 lb - ft	.90	1.85	.99
	HDM-HT-38	3/8"	114 lb - ft	1.26	1.85	.99
	HDM-HT-12	1/2"	114 lb - ft	1.85	1.85	.99



WELD STUD MOUNT

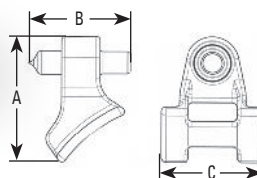
Used in conjunction with a cable tie, the weld stud mount eliminates all sizes of p-clamps, nuts and bolts with just two components. Designed to significantly save time and labor, the weld studs can be welded onto a painted frame rail without having to grind the surface in preparation.

Please contact us for information on suitable welding equipment for this product.

Standard color: Black

Standard material: Impact modified, heat stabilized, UV resistant - nylon 6/6

DX Part #	Max. Bundle Dia (in)	Stud Dia. (in)	A (in)	B (in)	C (in)
WSM	6	.24	1.32	1.06	1.07



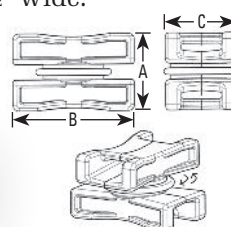
DUAL SWIVEL SADDLE MOUNTS

This saddle mount is installed between two bundles (such as wires, cables, hoses, tubing, conduit, etc.) to separate them and prevent chafing and wear. The mount can be rotated by hand, allowing the bundles to be crossed and rotated at any angle the application requires. Cable ties, which secure the bundles, are used with the mount. The dual swivel saddle mount accommodates cable ties up to 1/2" wide.

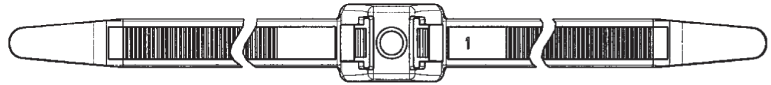
Standard color: Black

Standard material: Heat stabilized, nylon 6/6

DX PART #	Max. Bundle Dia (in)	Min. Pull-Apart Strength	A (in)	B (in)	C (in)
DSSM	6	250 lbs	.93	1.6	1.0



DUAL CLAMP CABLE TIES



Dual clamp ties are designed to provide parallel spacing between hoses, wires, cables and tubing, protecting them from abrasion. These ties have an optional mounting hole for securing bundles along the chassis of trucks, trailers, and automobiles. The unique, one-piece design features the dual head centered on the strap.

Standard color: Black

Standard material: Impact modified, heat stabilized, UV resistant nylon 6/6



DX Part #	Stud Size	Min. Tensile Strength (lbs)	Max. Bundle Dia (in)	Length (in)	Width (in)
NTHDC-13B	1/4"	150	1.3" each side	12.9	.50
NTHDC-19B	1/4"	150	2.3" each side	19.2	.50

DOUBLE HEAD CABLE TIES



Designed to harness two cables simultaneously. The second loop may also serve as a positioning device for a single cable.

Standard color: Black (natural available in 50 lb tensile strength ties only)

Standard material: Nylon 6/6

DX Part #	Min. Tensile Strength (lbs)	Max. Bundle Dia (in) for each loop	Length (in)	Width (in)
NTDH-8B	50	.75	8.25	.18
NTDH-12B	50	1.50	12	.18
NTDH-14B	50	2.00	15.50	.18
NTHDH-14B	120	2.00	15.50	.30

WIDE STRAP HEAVY DUTY CABLE TIES

The wide strap cable tie minimizes pinching on soft bundles and features a low profile head to provide compact bundling. A thinner strap provides increased flexibility for improved ergonomics and easier tightening of bundles.

Standard color: Black

Standard material: High impact, heat stabilized, UV resistant nylon 6/6



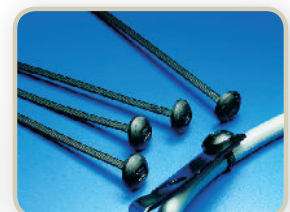
DX Part #	Min. Tensile Strength (lbs)	Max. Bundle Dia (in)	Length (in)	Width (in)
NTHWS-9B	120	2.25	9	.78
NTHWS-12B	120	3.25	12	.78
NTHWS-15B	120	4.125	15	.78

BUTTON HEAD TIES

The button head tie is a two piece tie providing for parallel entry and exit through the head. The strap contains serrations on both sides and the head has two opposed pawls covered by a spherical dome top. This design allows the strap to be directed clockwise or counter-clockwise prior to insertion into the head, enabling bi-directional looping.

Standard color: Black

Standard material: Impact modified, heat stabilized, UV resistant nylon 6/6



DX Part #	Min. Tensile Strength (lbs)	Max. Bundle Dia (in)	Length (in)	Width (in)
NTBH-9B	100	2.625	9.625	.22
NTBH-15B	100	4.32	15.0	.22
NTHBH-10B	120	2.90	10.5	.30
NTHBH-15B	120	4.34	15.0	.30

CABLE TIES & MOUNTS

Ty-Rap® CABLE TIES

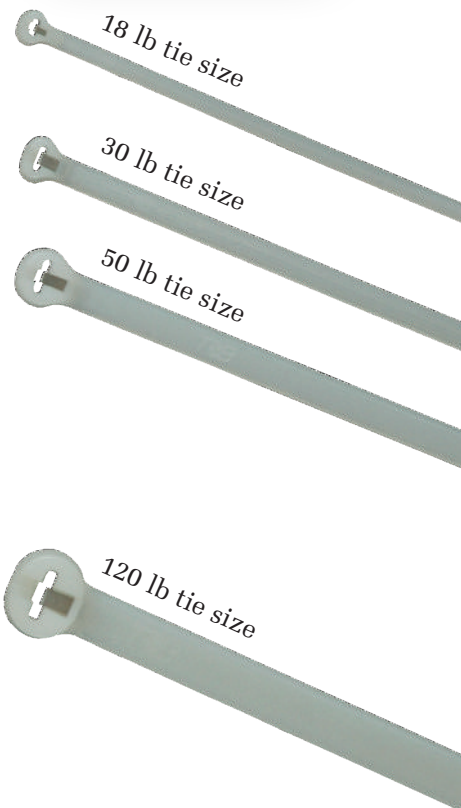
Manufactured By **Thomas & Betts**

Ty-Rap cable ties are manufactured with an exclusive self-locking device made of 316 stainless steel that is permanently embedded in the nylon head. The tie is infinitely adjustable to any diameter within its own range. All self-locking ties exceed the minimum pullout strength requirements of MIL-S-23190.

Standard Cable Ties

DX Part #	T&B #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NT-3/S	TY23M	18	3.62	0.091	0.625	MS3367-4
NT-7S/S	TYB2315M	18	7.00	0.091	1.500	
NT-8S/S	TY232M	18	8.00	0.091	2.000	
NT-14S/S	TY234M	18	14.00	0.091	4.000	
NT-5/S	TY24M	30	5.50	0.140	1.125	MS3367-5
NT-8M/S	TY242M	30	8.19	0.140	2.000	
NT-11M/S	TY26M	30	11.10	0.140	3.000	
NT-14M/S	TY244M	30	14.50	0.140	4.000	
NT-7/S	TY25M	50	7.31	0.184	1.750	MS3367-1
NT-11/S	TY253M	50	11.40	0.184	3.000	MS3367-7
NT-14/S	TY28M	50	14.20	0.184	4.000	MS3367-2

Full line of
Black UV Ties
also in stock



Heavy Duty Ties

DX Part #	T&B #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NTH-8/S	TY272M	120	8.75	0.270	2.000	
NTH-13/S	TY27M	120	13.40	0.270	3.500	MS3367-3
NTH-18/S	TY275M	120	18.00	0.270	5.000	
NTH-24/S	TY277M	120	24.30	0.270	7.000	
NTH-30/S	TY29M	120	30.00	0.301	9.000	MS3367-6

DX Electric Company offers the full line of Ty-Rap® cable ties and products including:

MATERIALS: nylon 6/6, weather resistant black, flame retardant 94V-0, nylon 12, heat stabilized, polypropylene, halar, tefzel and stainless steel.

STYLES: standard, heavy duty, screw mount, push mount, identification and lashing

ACCESSORIES: mounting bases, clamps and clips, harnessing applications, wire protection and installation tools.

Cable ties are supplied in both small and bulk packaging.

Ty-Fast®/Catamount® CABLE TIES

Manufactured By **Thomas&Betts**

All-nylon cable tie manufactured with Thomas & Betts quality, yet competitively priced.

Standard Cable Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NT-4/X	18	4.00	0.100	0.63	MS3367-4
NT-6S/X	18	6.40	0.100	1.50	
NT-8S/X	18	8.00	0.100	2.00	
NT-5/X	30	5.60	0.130	1.25	MS3367-5
NT-8M/X	40	8.50	0.130	2.00	
NT-11M/X	40	11.50	0.146	3.00	
NT-14M/X	40	14.50	0.146	4.00	
NT-7/X	50	7.50	0.187	1.75	MS3367-1
NT-11/X	50	11.10	0.187	3.00	MS3367-7
NT-14/X	50	14.10	0.187	4.00	MS3367-2

Heavy Duty Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NTH-8/X	120	8.00	0.300	2.00	
NTH-11/X	120	11.10	0.300	3.00	
NTH-14/X	120	14.20	0.300	4.00	MS3367-3
NTH-18/X	120	18.00	0.300	4.88	
NTH-24/X	120	24.20	0.300	7.00	
NTH-28/X	120	28.00	0.300	9.00	MS3367-6

Extra Heavy Duty Ties

DX Part #	Minimum Tensile Strength (lb)	Length (in)	Width (in)	Maximum Bundle Diameter (in)	Military Standard
NTXH-24/X	175	24.00	0.345	7.20	
NTXH-36/X	175	36.00	0.345	10.75	
NTXH-41/X	175	41.00	0.345	12.00	
NTXH-48/X	175	48.00	0.345	15.00	

Natural colored ties are listed for both **Ty-Rap** & **Ty-Fast®/Catamount®** cable ties.

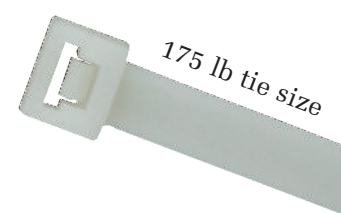
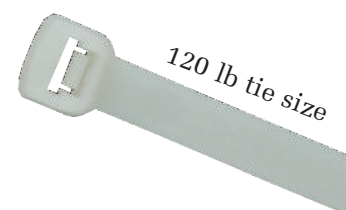
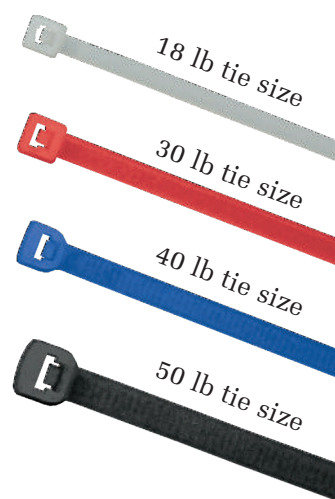
Black ultraviolet resistant ties for outdoor use are also available.

To order black ties, add the suffix "B" just before the "/S" or "/X".

Other colors available in most sizes.

Ties can be supplied in both small and bulk packaging.

Full line of
Black UV Ties
also in stock



CABLE TIES & MOUNTS

CABLE TIE TOOLS

MK-7

A high quality state-of-the-art cable tie tool that is ergonomically designed with an internal low friction mechanism to reduce hand effort and operator fatigue. Two adjustable knobs will fine tune the tension setting for a quick and flush cut-off. Weighs only 10 ounces and features a one inch stroke to reduce the number of trigger cycles. Comes standard with a padded foam grip for comfort and control.



Use with 18 to 50 lbs ties.

MK-9

Has the same design features as the MK-7, but able to accommodate heavy-duty ties. Weighs 13 ounces and features a 5/8 inch stroke. Padded foam grip is also standard.

Use with 18 to 250 lbs ties.

**Tool not shown, similar to MK-7*

MK-9SST

Has the same design features as the MK-9, but adapted for use with stainless steel ties. A cast stainless steel nose piece has been added to allow for consistent tension and to insure leaving a flush edge when cutting the tie. Able to cut widths up to .515"



Use with 150 to 250 lbs stainless steel ties.

MATERIALS AVAILABLE

	Continuous Operating Temperature		
	Max	Min	
Nylon 6/6 - General Purpose Colors - Natural & Assorted colors	185°F 85°C	-40°F -40°C	For use in most applications. Standard nylon 6/6 features light weight, high strength and a wide temperature range it is also halogen free.
Nylon 6/6 - UV Stabilized Color - Black	185°F 85°C	-40°F -40°C	For use in outdoor applications. Chemicals added to fight against premature aging due to ultraviolet rays.
Nylon 6/6 - V0 Flame Retardant Colors - Natural & Black	185°F 85°C	-40°F -40°C	Material to be used where UL 94V-0 flammability ratings are required.
Nylon 6/6 - Heat Stabilized Colors - Natural & Black	220°F 105°C	-40°F -40°C	For use where higher continuous temperature applications are needed.
Polypropylene Colors - Natural & Black	185°F 85°C	-40°F -40°C	For use in environments where chemical effects on nylon are a concern. Good UV resistance.
Halar Colors - Natural & Red	284°F 140°C	-50°F -46°C	Halar ties meet NEC regulations and can be used in applications where low smoke and low flame are a concern, as in air handling spaces. UL94V-0 rated.
Tefzel Color - Blue	302°F 140°C	-50°F -46°C	Tefzel provides excellent protection against radiation, ultraviolet light, and many chemicals. Also rated for low outgassing applications and offers high temperature stability. Meets fire and smoke requirements IEEE 383.
Stainless - 304 Material	1000°F 538°C	-112°F -80°C	Grade 304 material suits most general purpose applications. It will withstand most harsh environmental conditions where vibration, weathering, radiation and temperature extreme are a concern.
Stainless - 316 Material	1000°F 538°C	-112°F -80°C	Grade 316 material is highly resistant to corrosion and is widely used in marine environments where chemicals, salts, acids and temperature extremes are present.

Other Styles Available

Releasable Ties
Push Mount Ties
Tree Mount Ties

Stud Mount Ties
Dual Clamp Ties
Button Head Ties

Double Head Ties
Tamper Evident Ties
Striped Ties

Low Profile Ties
Outside Serrated Ties
Aerial Support Ties

Hook & Loop Grip Ties

HEAT SHRINK TUBING (HST) *FLEXIBLE POLYOLEFIN 2:1*

UL **CSA** **600V 125°C (257°F)**

HST is a flexible cross-linked polyolefin tubing that has a 2:1 shrink ratio when heated. HST offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. It is typically used as an electrical insulation over cable splices and terminations. HST may also be used as stress relief, wire marking, wire bundling, component packaging and fire-resistant wire harness covering. HST is split resistant, mechanically tough, easily marked and resistant to cold flow. HST is rated for continuous operation from -55°C (-67°F) to 135°C (275°F) and withstands elevated temperatures to 300°C (572°F) for short periods. Minimum shrink temperature is 100°C (212°F).

Meets Mil-I-23053/5 Class 1 & 2.

DX Part #	Size (in)	Minimum Expanded ID (in)	Maximum Recovered ID (in)	Nominal Recovered Wall Thickness (in)	Military Mil-I-23053/5
HST-364	3/64	.046	.023	.016	-101
HST-116	1/16	.063	.031	.017	-102
HST-332	3/32	.093	.046	.020	-103
HST-18	1/8	.125	.062	.020	-104
HST-316	3/16	.187	.093	.020	-105
HST-14	1/4	.250	.125	.025	-106
HST-38	3/8	.375	.187	.025	-107
HST-12	1/2	.500	.250	.025	-108
HST-34	3/4	.750	.375	.030	-109
HST-1	1	1.000	.500	.035	-110
HST-112	1-1/2	1.500	.750	.040	-111
HST-2	2	2.000	1.000	.045	-112
HST-3	3	3.000	1.500	.050	-113
HST-4	4	4.000	2.000	.055	-114

Available in 4 foot sticks and continuous length spools

STANDARD COLOR: Black

OTHER COLORS: White, Clear, Red, Yellow, Blue, Green, Purple, Green with Yellow Stripe, Orange, Brown, & Gray

SPECIFICATIONS

Voltage 600V UL & CSA
 Temperature -55°C (-67°F) to 135°C (275°F)
 Mil-I-23053/5 Class 1 Flame resistant
 Class 2 Flammable (Clear only)



MT-76

A professional quality, handheld or table top, butane-powered, self-igniting trigger torch, soldering iron, and flameless heat tool.

- MT-76 includes soldering iron and heat tip for soldering up to 752°F/400°C and heating up to 932°F/500°C.
- Incorporates a "hands free" slide lock for continuous use and instant off operation.
- Use to heat parts, ignite materials, melt plastic, pinpoint torch, shrink tubing, solder & desolder, terminate specialty connectors and more.



ADHESIVE-LINED HEAT SHRINK *FLEXIBLE POLYOLEFIN* 3:1

ML3-HST is a flame-retardant, flexible, cross-linked polyolefin heat shrink tubing with an internal adhesive sealant. When heated in excess of 121°C (250°F), the tubing rapidly shrinks forcing the adhesive to flow and form a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies, forming a permanent, non-drying, flexible and water resistant barrier which offers a superb environmental protection for electronic components, wire splices, wire bundles and harness breakouts. Great for use in automotive, truck, marine and heavy equipment environments where moisture, humidity and corrosion are a problem. ML3-HST has a 3:1 shrink ratio that, when freely recovered, will shrink to 33% of its original diameter. The recovered wall thickness of the tubing is proportional to the degree of recovery.

Meets Mil-I-23053/4 Class 3

DX Part #	Size (in)	Minimum Expanded ID (in)	Maximum Recovered ID (in)	Nominal Recovered Wall Thickness (in)	Meltable Recovered Wall Thickness (in)
ML3-HST-18B	1/8	.125	.040	.040	.020
ML3-HST-316B	3/16	.187	.062	.040	.020
ML3-HST-14B	1/4	.250	.080	.040	.020
ML3-HST-38B	3/8	.375	.120	.055	.025
ML3-HST-12B	1/2	.500	.160	.070	.030
ML3-HST-34B	3/4	.750	.250	.085	.035
ML3-HST-1B	1	1.000	.320	.100	.040
ML3-HST-112B	1-1/2	1.500	.510	.100	.040

STANDARD COLOR: Black

Other colors (including clear) are available upon request

Flexible, flame retardant, high expansion
(clear tubing is not flame retardant)

SPECIFICATIONS

Voltage 600V UL
Temperature -55°C (-67°F) to 110°C (230°F)

Stocked and sold in 4 foot sticks.



ADHESIVE-LINED HEAT SHRINK *FLEXIBLE POLYOLEFIN* 2:1

ML2-HST has the same properties and characteristics as ML3-HST, but with a 2:1 shrink ratio. This allows for a thinner recovered wall thickness, which gives greater flexibility after shrinking and provides a lower profile fit for areas where space is limited.

Meets Mil-I-23053/4 Class 2

DX Part #	Size (in)	Minimum Expanded ID (in)	Maximum Recovered ID (in)	Nominal Recovered Wall Thickness (in)	Meltable Recovered Wall Thickness (in)
ML2-HST-18B	1/8	.125	.063	.027	.004
ML2-HST-316B	3/16	.187	.093	.027	.004
ML2-HST-14B	1/4	.250	.125	.030	.005
ML2-HST-38B	3/8	.375	.187	.031	.005
ML2-HST-12B	1/2	.500	.250	.032	.006
ML2-HST-34B	3/4	.750	.375	.037	.006
ML2-HST-1B	1	1.000	.500	.046	.008
ML2-HST-112B	1-1/2	1.500	.750	.049	.008
ML2-HST-2B	2	2.000	1.000	.060	.015

STANDARD COLOR: Black

Other colors (including clear) are available upon request

Flexible, flame retardant
(clear tubing is not flame retardant)

SPECIFICATIONS

Voltage 600V UL
Temperature -55°C (-67°F) to 110°C (230°F)

Stocked and sold in 4 foot sticks.

HEAVY DUTY HEAT SHRINK *ADHESIVE-LINED POLYOLEFIN* 3:1

HD-HST is a heavy wall tubing with a dual purpose adhesive/sealant thermoplastic liner. This tubing provides maximum protection for insulating and sealing electrical connections and terminations. It is suitable to be used in the most adverse conditions such as direct burial, URD and submersible installations. The tough outer jacket protects against high impact, abrasion, vibration, and corrosion. HD-HST is chemical resistant.

DX Part #	Size (in)	Minimum Expanded ID (in)	Maximum Recovered ID (in)	Nominal Recovered Wall Thickness (in)	Conductor Size Range AWG
HD-HST-38	3/8	.350	.120	.070	14 - 10
HD-HST-12	1/2	.500	.160	.090	8 - 6
HD-HST-34	3/4	.750	.240	.090	6 - 2
HD-HST-1.1	1	1.100	.350	.120	1 - 3/0
HD-HST-1.5	1-1/2	1.500	.470	.160	2/0 - 350
HD-HST-2	2	2.000	.630	.160	250 - 500
HD-HST-2.5	2-1/2	2.700	.870	.160	600 - 1000

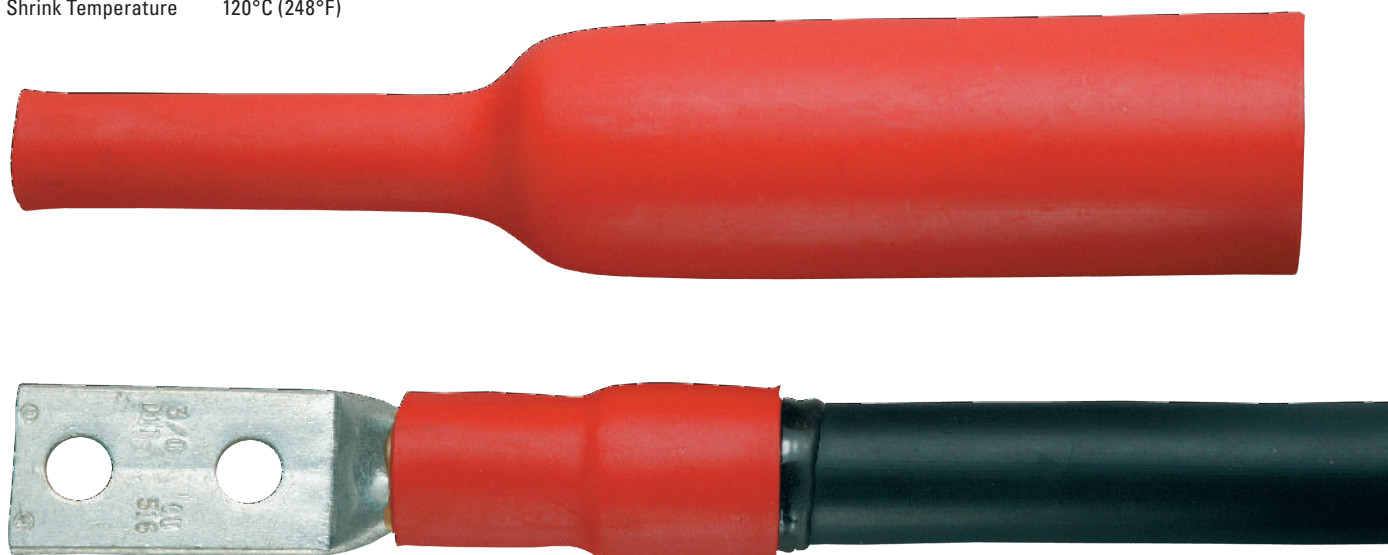
STANDARD STOCKED LENGTH: 1 foot sticks
Available in other lengths by request.

STANDARD COLOR: Black
Red also available in most sizes.

SPECIFICATIONS

Voltage	600V
Continuous Operating Temperature	90°C (194°F)
Temperature	-55°C (-67°F) to 110°C (230°F)
Shrink Temperature	120°C (248°F)

Other wall thicknesses and different sizes available.



WIRE COVERINGS

HEAT GUNS

WE OFFER A WIDE ARRAY OF HEAT GUNS & HEAT GUN KITS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

HG-501A



- Heavy-duty, industrial quality heat gun.
- Air flow volume: 23 cfm.
- Temperature range: 500°F - 750°F.
- Adjustable air intake on side controls air flow and temperature range.
- Comes with an adjustable rubber backed base for positioning.
- Limited one year warranty.

HG-3002 LCD



- High-tech, electronic heat gun.
- LCD Temperature Display indicates both target and actual output.
- Dial in to a target temperature (cool - 1100°F) within $\pm 5^\circ\text{F}$.
- Creates uniformity throughout job/plant.
- Eliminates safety concerns.
- Full one year warranty – including the heat element.

HEAT SHRINK MATERIAL DESCRIPTIONS

Polyolefins

Mil-I-23053/5	Class 1	Flame resistant	2:1 shrink
	Class 2	Flammable (clear only)	2:1 shrink
Mil-I-23053/5	Class 3	Highly flame resistant UL VW-1 rated, CSA OFT	2:1 shrink
Mil-I-23053/5		Very flexible polyolefin	3:1 shrink
Mil-I-23053/5		Flexible polyolefin	4:1 shrink
Mil-R-46846	Type V	Very flexible polyolefin	2:1 shrink
Mil-I-23053/6	Class 1&2	Semi-rigid polyolefin	2:1 shrink

Polyolefins with Sealant

Mil-I-23053/4	Class 1	Semi-rigid, non-flame retardant	2.5:1 shrink
Mil-I-23053/4	Class 2	Flexible, flame retardant (clear tubing is not flame retardant)	2:1 shrink
Mil-I-23053/4	Class 3	Flexible, flame retardant, high expansion (clear tubing is not flame retardant)	3:1 shrink
Mil-I-23053/15	Class 1	Heavy wall, flame retardant	3:1 shrink
	Class 2	Medium wall, flame retardant	3:1 shrink

Other Materials

Mil-I-23053/1	Class 1&2	Neoprene, flexible	2:1 shrink
Mil-I-23053/2	Class 2	PVC	2:1 shrink
Mil-I-23053/8		Kynar, semi-rigid	2:1 shrink
Mil-I-23053/10		Silicone rubber, flexible	1.75:1 shrink
Mil-I-23053/11	Class 1	FEP, heavy wall, normal shrink ratio	1.3:1 shrink
	Class 2	FEP, medium wall, high shrink ratio	1.6:1 shrink
Mil-I-23053/12	Class 1,2,3,4,5	Teflon, multiple wall thickness per class	Multiple ratios
Mil-I-23053/13		Viton, flexible	2:1 shrink
Mil-I-23053/14		Tefzel, semi-rigid	1.5:1 shrink
Mil-I-23053/18	Class 1	Kynar, semi-rigid	2:1 shrink
	Class 2	Kynar, flexible	2:1 shrink
	Class 3	Kynar, very flexible	2:1 shrink

BUS BAR HEAT SHRINK TUBING (BBI-A)

BBI-A is a flame retardant, specially formulated, cross-linked polyolefin tubing that is designed for insulating rectangular, square and round bus bar. It is rated from 5 KV through 35 KV. This material has a high resistance to splitting while providing the flexibility to conform to bends in certain applications. BBI-A is resistant to most solvents, and it is unaffected by normal cleaning fluids. It offers good thermal endurance up to 110°C (230°F). It has an excellent dielectric strength and is resistant to physical damage which contributes to longer life and a more stable performance. BBI-A tubing meets the requirements of **ANSI/IEEE Standard C37.20**.

DX Part #	Minimum Expanded ID (in)	Maximum Recovered ID (in)	Expanded Wall Thickness (in)	Recovered Wall Thickness (in)
BBI-3A	2.38	1.01	.049	.113
BBI-4A	4.35	1.67	.043	.113
BBI-5A	5.30	2.04	.043	.114
BBI-6A	5.90	2.33	.046	.117
BBI-7A	6.78	2.55	.048	.130
BBI-8A	8.25	3.18	.049	.128
BBI-9A	8.83	3.78	.054	.127
BBI-10A	10.28	4.53	.059	.138

Available in 20 and 50 foot rolls.

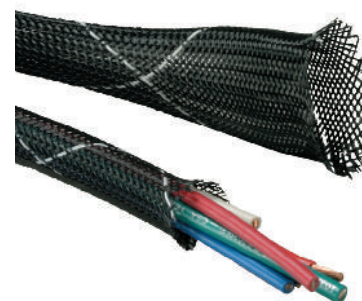
STANDARD COLOR: Orange-red

SPECIFICATIONS:

Voltage 600V to 35 KV
Temperature 110°C (230°F)

EXPANDABLE SLEEVING (XPF)

XPF is a braided flame retardant sleeving made of polyester monofilaments. Designed for military, aeronautical, commercial, industrial, and marine applications where flame resistance and abrasion protection are required. The open weave construction allows for extreme flexibility while stretching and contracting to accommodate irregular shapes and sizes. XPF expands to two or three times its original diameter allowing for easy installation without the use of heat or special tools. Excellent for lightweight, low profile bundling of wires, tubing, cables, harnesses, pneumatic hoses, and hydraulic lines.



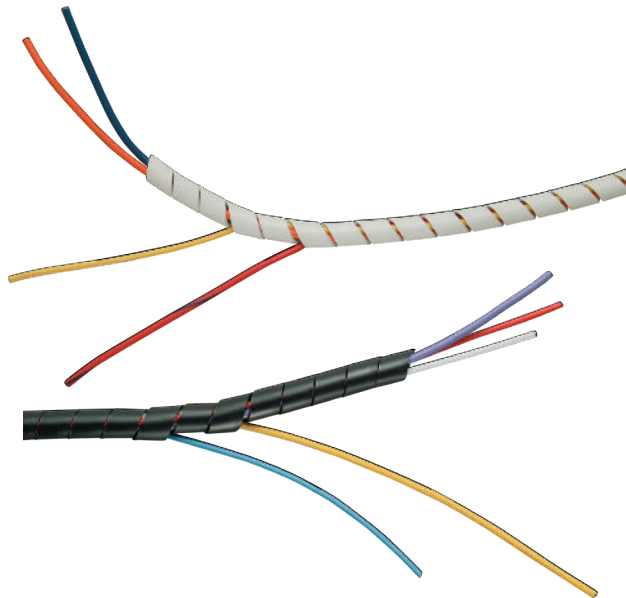
Product Advantages of XPF:

- Expands 2 to 3 times original ID for quick easy application.
- Allows for easy identification or inspection with easy access for rework.
- High abrasion and cut-thru resistance.
- Melt temperature 240°C/ 464°F.
- Maximum operating temperature 125°C/ 257°F.
- Flame retardant.
- Impervious to rot and fungus.
- Not affected by immersion in water, salt water, jet fuel, gasoline, diesel fuel, hydraulic fluids, antifreeze, oils, and cleaning agents.
- Traps no heat, humidity or moisture.

DX Part #	Nom. ID (in)	Diameter Range (in)	
		Min.	Max.
XPF-18B-FR	1/8	3/32	9/32
XPF-14B-FR	1/4	1/8	3/8
XPF-38B-FR	3/8	3/16	5/8
XPF-12B-FR	1/2	1/4	3/4
XPF-34B-FR	3/4	1/2	1 1/4
XPF-114B-FR	1 1/4	3/4	1 3/4
XPF-134B-FR	1 3/4	1 1/4	2 3/4
XPF-2B-FR	2	1 1/2	3 1/4

Standard Color: Black with white tracer.

White sleeving with black tracer available upon request.



SPIRAL WRAP TUBING

Bundles wires, cables, hoses, and tubing firmly but allows flexibility. Functional and decorative, it wraps on like tape and can be reused quickly and simply. Spiral wrap permits breakouts in any orientation and it is easy to route or reroute. It organizes, insulates, and resists abrasion. There are five different materials from which to choose: Clear Polyethylene, Ultraviolet-Resistant Black Polyethylene, Nylon, Teflon PTFE, and Fire-Resistant Polyethylene.

Clear Polyethylene

This material is the most common and is ideal for general applications. It is highly abrasion resistant and is not affected by most solvents.

Operating temperature -105°F to 215°F (-76°C to 101°C).
Meets MIL-I-631D.

DX Part #	Outside Dia. (in)	Nom. Wall (in)	Max Bundle Range (in)
SW-18	.125	.032	1/16 - 1/2
SW-316	.187	.030	1/8 - 1 1/2
SW-14	.250	.035	3/16 - 2
SW-38	.375	.052	5/16 - 3
SW-12	.500	.062	3/8 - 4
SW-34	.750	.065	3/4 - 5
SW-1	1.000	.080	1 - 7

Ultraviolet-Resistant Black Polyethylene

This material has the same properties as clear polyethylene but features an ultraviolet absorber which permits it to be used outdoors in direct sunlight for long periods of time.

To order ultraviolet-resistant black spiral wrap, place a "B" after the part number listed in the chart above. All other specifications remain the same.

Nylon

This material is self extinguishing and does not produce any toxic or irritating by-products—even when exposed to an open flame or excessive operating temperatures. Recommended for use in enclosed environments where the possibility of fire exists. This material is also lightweight and highly abrasion resistant.

Operating temperature -121°F to 200°F (-85°C to 93°C).
Meets ASTM D-4066.

DX Part #	Outside Dia. (in)	Nom. Wall (in)	Max Bundle Range (in)
SW-18-NY	.125	.015	1/16 - 1/2
SW-14-NY	.250	.025	3/16 - 2
SW-38-NY	.375	.035	5/16 - 3
SW-12-NY	.500	.035	3/8 - 4

Part numbers listed for natural color. Black is also available.

Teflon PTFE

This material features the widest operating temperature range of any material. It is chemically inert and non-flammable, and it meets various military standards.

Operating temperature -450°F to +500°F (-268°C to 260°C).

DX Part #	Outside Dia. (in)	Nom. Wall (in)	Max Bundle Range (in)
SW-18-PTFE	.125	.020	1/16 - 1/2
SW-316-PTFE	.188	.030	1/8 - 1 1/2
SW-14-PTFE	.250	.030	3/16 - 2
SW-38-PTFE	.375	.030	5/16 - 2 1/2
SW-12-PTFE	.500	.030	3/8 - 3
SW-34-PTFE	.750	.032	1/2 - 4
SW-1-PTFE	1.000	.040	3/4 - 5

Part numbers listed for natural color. Black is also available.

Fire-Resistant Polyethylene

This material is suitable for applications requiring a self-extinguishing material.

Operating temperature -1°F to 200°F (-19°C to 93°C).

DX Part #	Outside Dia. (in)	Nom. Wall (in)	Max Bundle Range (in)
SW-14-FR	.250	.045	3/16 - 2
SW-38-FR	.375	.052	5/16 - 3
SW-12-FR	.500	.062	3/8 - 4
SW-34-FR	.750	.065	3/4 - 5
SW-1-FR	1.000	.080	1 - 7

Part numbers listed for white. Black is also available.

Other sizes and colors are available.

WIRE COVERINGS

VINYL TUBING

This tubing is made from polyvinylchloride all purpose extruded plastic insulating material. It is commonly used for internal wiring of electronic devices, insulating bare wire, and wire bundling. Vinyl tubing is resistant to oil, chemicals, solvents, and fungi. It is self extinguishing and also has an exceptional resistance to abrasion.

SPECIFICATIONS: UL Subject 224 VW-1. CSA OFT. Size #24 - Size #1 300V. Sizes 5/16" - 1 1/2" rated for 600V. ASTM D 922. AMS 3631. MIL-I-631D Grade C QPL approved. Temp Range -20°C to 105°C.

STANDARD COLORS: Black and Clear. Other colors available upon request.

DX Part # Clear	DX Part # Black	Nominal ID (in)	Nominal Wall (in)
CVT-24	BVT-24	.022	.012
CVT-22	BVT-22	.027	.012
CVT-20	BVT-20	.034	.016
CVT-19	BVT-19	.038	.016
CVT-18	BVT-18	.042	.016
CVT-17	BVT-17	.047	.016
CVT-16	BVT-16	.053	.016
CVT-15	BVT-15	.059	.016
CVT-14	BVT-14	.066	.016
CVT-13	BVT-13	.076	.016
CVT-12	BVT-12	.085	.016
CVT-11	BVT-11	.095	.016
CVT-10	BVT-10	.106	.016
CVT-9	BVT-9	.118	.020
CVT-8	BVT-8	.133	.020
CVT-7	BVT-7	.148	.020
CVT-6	BVT-6	.166	.020
CVT-5	BVT-5	.186	.020
CVT-4	BVT-4	.208	.020

DX Part # Clear	DX Part # Black	Nominal ID (in)	Nominal Wall (in)
CVT-3	BVT-3	.234	.020
CVT-1/4	BVT-1/4	.250	.020
CVT-2	BVT-2	.263	.020
CVT-#1	BVT-#1	.294	.020
CVT-5/16	BVT-5/16	.313	.025
CVT-0	BVT-0	.330	.025
CVT-3/8	BVT-3/8	.375	.025
CVT-7/16	BVT-7/16	.438	.025
CVT-1/2	BVT-1/2	.500	.025
CVT-9/16	BVT-9/16	.563	.030
CVT-5/8	BVT-5/8	.625	.030
CVT-3/4	BVT-3/4	.750	.035
CVT-7/8	BVT-7/8	.875	.035
CVT-1"	BVT-1"	1.000	.035
CVT-118	BVT-118	1.125	.035
CVT-114	BVT-114	1.250	.040
CVT-138	BVT-138	1.375	.045
CVT-112	BVT-112	1.500	.045



TFE TUBING

This superior insulating material offers the ultimate in heat resistance, chemical stability and dielectric properties. It resists melt-off by soldering irons when making terminations. TFE tubing is resistant to virtually all corrosive chemicals. Its dielectric properties favor it for electronic and electrical service. **Continuous use temperature 500°F.**

VW-1 rated, resists combustion and does not favor flame spread. Natural color.



AWG	Inside Diameter (in)			Standard Wall		Thin Wall		Lightweight Wall	
	Min.	Nom.	Max.	Nom. (in)	DX Part #	Nom. (in)	DX Part #	Nom. (in)	DX Part #
24	.020	.022	.026	.012	TFE-SW-24	.010	TFE-TW-24	.006	TFE-LW-24
23	.023	.026	.029	.012	TFE-SW-23	.010	TFE-TW-23	.006	TFE-LW-23
22	.026	.028	.032	.012	TFE-SW-22	.010	TFE-TW-22	.006	TFE-LW-22
21	.029	.032	.035	.012	TFE-SW-21	.010	TFE-TW-21	.006	TFE-LW-21
20	.032	.034	.038	.016	TFE-SW-20	.012	TFE-TW-20	.006	TFE-LW-20
19	.036	.038	.042	.016	TFE-SW-19	.012	TFE-TW-19	.006	TFE-LW-19
18	.040	.042	.046	.016	TFE-SW-18	.012	TFE-TW-18	.006	TFE-LW-18
17	.045	.047	.052	.016	TFE-SW-17	.012	TFE-TW-17	.006	TFE-LW-17
16	.051	.053	.058	.016	TFE-SW-16	.012	TFE-TW-16	.006	TFE-LW-16
15	.057	.059	.065	.016	TFE-SW-15	.012	TFE-TW-15	.006	TFE-LW-15
14	.064	.066	.072	.016	TFE-SW-14	.012	TFE-TW-14	.008	TFE-LW-14
13	.072	.076	.081	.016	TFE-SW-13	.012	TFE-TW-13	.008	TFE-LW-13
12	.081	.085	.091	.016	TFE-SW-12	.012	TFE-TW-12	.008	TFE-LW-12
11	.091	.095	.101	.016	TFE-SW-11	.012	TFE-TW-11	.008	TFE-LW-11
10	.102	.106	.112	.016	TFE-SW-10	.012	TFE-TW-10	.008	TFE-LW-10
9	.114	.118	.124	.020	TFE-SW-9	.015	TFE-TW-9	.008	TFE-LW-9
8	.129	.133	.139	.020	TFE-SW-8	.015	TFE-TW-8	.008	TFE-LW-8
7	.144	.148	.155	.020	TFE-SW-7	.015	TFE-TW-7	.008	TFE-LW-7

Additional sizes available. Please contact our sales department for assistance.

WIRING DUCT

Used to efficiently and esthetically route and protect wire and cable, wiring duct is most often used in panels and control housings. Wiring duct is available in solid, slotted, or high density slotted styles in standard white, standard gray, black, or intrinsic blue. This wiring duct is made of PVC material, UL recognized, CSA certified, RoHS compliant, and carrying a flame rating of 94V-0. Features include smooth edges for installer protection, longer mounting holes for installation versatility, interchangeable covers between the different styles of duct for reduced inventory, and flush covers for tight, side-by-side placement.

Continuous Operating Temperature: 122°F (50°C)

Deflection Temperature @ 1.8Mpa (264psi): 161°F (72°C)

SOLID WALL DUCT: used for straight wire runs where break-outs are not required.

SLOTTED WALL DUCT: featuring break-away fingers with double scored lines - one at the base of the finger and the second a little lower at the base of the duct.

HIGH DENSITY SLOTTED WALL DUCT: featuring more narrow fingers equaling a 2-to-1 ratio when compared with the standard slotted wall duct.

COVERS: sold separately and interchangeable among different duct styles, these covers are made with a non-slip plastic lining for enhanced security.

ADHESIVE BACKING: available upon request.

Part Number Guide

PART NUMBERS FOR ORDERING DUCT: WD X
Style W H Color

PART NUMBERS FOR ORDERING COVERS: WDCV
W Color

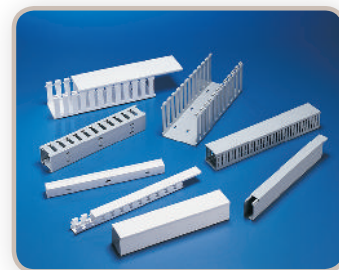
Style	Width (W)	Height (H)	Color
SD (Solid)	1"	1"	WE (white)
SL (Standard Slotted)	1.5"	1.5"	GY (grey)
HD (High Density Slotted)	2"	2"	BK (black)
	3"	3"	BE (intrinsic blue)
	4"	4"	

EXAMPLES: WDSL 1 x 3 GY (standard slotted duct, 1"W x 3"H, grey) WDCV 1 GY (1" grey cover)

Note that solid duct is also available in .5" x .5" size. Some styles offer 5" heights as well. For assistance with wire duct part numbers, please call our sales department.

Rivet Tool: lightweight yet durable, this tool eases the insertion of rivets.

DX Part #	Rivet Pin Size (in)	Color
NRT-R	.075	Red
NRT-B	.093	Black
NRT-Y	.125	Yellow
NRT-G	.150	Green



Nylon rivets also available.



Duct Notching Tool: hand held tool featuring plastic grips for easy handling

DX Part # TDNT

WIRE IDENTIFICATION

LABELING PRODUCTS

DX Electric Company offers a wide variety of labeling products serving a variety of industries and applications. From identifying wire & cable in wire harnessing applications, to control panel labeling including wires, terminal blocks, and panels themselves. Our offered labels can also be used in the telecommunications industry as well as on printed circuit boards. No matter what your application, we have the system to make your identification process efficient and effective.

TPS-PRO: HellermannTyton's TagPrint Pro software is easy-to-use yet extensive and multi-functional. Users will enjoy the built-in table database which allows the user to incorporate variable sets of data, graphics, or bar codes into the label. The software is compatible with almost any dot matrix, ink jet, laser, or thermal printers.



TPS-Pro Software

THERMAL PRINTERS

Thermal transfer printers and labels use a combination of ribbon and label materials that produce a chemical and solvent resistant, non-smear mark. The result is high resolution marks with the highest quality offered.

Medium to High Usage Printer: The print speed is up to 7.87" per second. Its user-friendly design features a streamlined menu for simple navigation including a printer status screen with date/time/network status/head temperature/and ribbon amount. Its built in caddy allows even the largest label rolls to fit inside the printer. The optional cutter can cut through the thickest material. The 300 dpi print head provides the highest quality printing.



Medium to High Usage Printer

Low to Medium Usage Printer: The print speed is up to 2.95" per second. The compact design is convenient for most office/plant spaces.



Low to Medium Usage Printer

THERMAL LABELS

ShrinkTrak Markers: HellermannTyton's ShrinkTrak™ heat shrinkable markers make it easy to mark wire, cable, terminals, and other components. For efficient labeling, ShrinkTrak can be printed using HellermannTyton's thermal transfer printers and ribbons. ShrinkTrak is a very flexible, flame retardant, heat shrinkable polyolefin tubing. The heat shrinkable markers have a 3:1 shrink ratio. Printable liner allows additional marker data behind each marker for records and placement instructions. High performance die cutting



ShrinkTrak Markers

DX Part #	Diameter as Supplied (in)	Wire Size Range	Package Quantity
THS-610	.125	18-22	250
THS-615	.187	12-18	250
THS-620	.250	10-16	250
THS-625	.375	8-14	250
THS-630	.500	2-10	250
THS-635	.750	6-0000	250
THS-640	1.000	1-400	250

ShrinkTrak™ markers are available in white, yellow, and with one or more perforations. Bulk packaging is also available. Please contact your sales representative for assistance when ordering

THERMAL LABELS, CONTINUED

Thermal Transfer Self-Laminating Labels:

These labels are made with a white print-on area and an attached clear, flexible film which wraps around the label for a self-lamination that protects against moisture, chemicals, and abrasion.

MATERIAL: 100 Clear Vinyl

- -50°F to +200°F
- For round wires/cables and flat ribbon

DX Part #	Width of Label (in)	Length of Printable Area (B) in.	Length of Label (C) in.	Labels Per Roll
TAG-1T1-100B	1.90	.75	3.12	2,500
TAG-2T5-100B	.50	.50	1.43	10,000
TAG-3T3-100B	1.00	1.00	3.75	3,000
TAG-6T1-100B	2.00	1.00	3.75	1,000
TAG-9T3-100B	1.00	.75	2.25	5,000
TAG-10T2-100B	2.00	.75	2.25	2,500
TAG-22T3-100B	1.00	.50	1.43	5,000
TAG-24T1-100B	2.00	.50	1.437	1,000
TAG-26T6-100B	.50	.315	.75	10,000
TAG-51T3-100B	1.00	.35	.75	10,000
TAG-53T2-100B	1.50	.70	1.435	2,500

Note that not all sizes are listed above. Please consult our sales department for additional sizes.

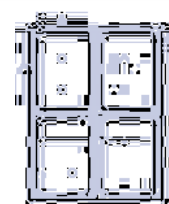
Thermal Transfer Labels: Offered in a variety of materials to meet an array of industrial applications, all thermal transfer labels are made with the same excellent ink anchorage and high quality mark.

MATERIAL: 795 Metalized Polyester, 822 White Polyester

- -40°F to +300°F
- Permanent pressure sensitive acrylic
- For flat or slightly curved surfaces only
- 2 year outdoor durability

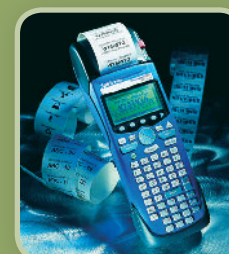
DX Part #	Width of Label (in)	Length of Label (in)	Labels Per Roll
TAG-15T3-795	1.00	.50	10,000
TAG-27T1-795	1.50	.75	3,000
TAG-72T1-795	2.75	1.25	3,000
TAG-73T1-795	2.00	1.00	3,000
TAG-75T1-795	2.00	.625	2,000
TAG-76T1-795	2.50	2.00	1,000
TAG-78T1-795	3.00	4.00	500
TAG-79T1-795	4.00	2.00	500
TAG-80T1-795	3.00	5.00	500
TAG-13T4-822	.75	.25	10,000
TAG-15T3-822	1.00	.50	10,000
TAG-16T3-822	.90	.25	10,000
TAG-27T1-822	1.50	.75	3,000
TAG-70T12-822	.25	.25	10,000
TAG-71T5-822	.50	.43	10,000
TAG-72T1-822	2.75	1.25	3,000
TAG-73T1-822	2.00	1.00	3,000
TAG-75T1-822	2.00	.625	2,000
TAG-81T8-822	.325	.20	5,000
TAG-82T2-822	1.50	.25	10,000
TAG-83T1-822	4.00	.312	5,000
TAG-84T3-822	1.25	.375	10,000

Note that not all sizes and materials are listed above. Please consult our sales department for additional sizes/materials available.



A variety of handheld printers and accessories available.

See page 57



LASER & DOT MATRIX

LASER LABELS



Laser labels are printable on any standard laser printer. Special material delivers a clear, high quality print mark. Laser labels are offered in standard labels and in self-laminating form.

Laser Tags:

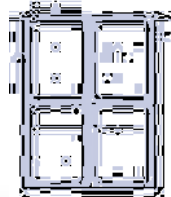
Standard laser labels are white polyester material with a temperature range of -40°F to +194°F.

DX Part #	Width of Label (in)	Length of Label (in)	Labels Per Sheet	Labels Per Package
TAG-53L-788	8.50	10.81	1	250
TAG-54L-788	8.50	5.50	2	500
TAG-55L-788	4.25	5.50	4	1,000
TAG-56L-788	4.00	3.33	6	1,500
TAG-57L-788	4.25	2.75	8	2,000
TAG-58L-788	4.00	2.00	10	2,500
TAG-59L-788	4.00	1.50	14	3,500
TAG-60L-788	2.83	1.50	21	5,250
TAG-61L-788	2.62	1.00	30	7,500
TAG-62L-788	1.50	.37	125	1,000

Note that a high temperature material (up to 300°F) is available. Ask your sales representative for assistance.

Self-Laminating Laser Tags

These labels are made with a white print-on area and an attached clear, flexible film which wraps around the label for a self-lamination that protects against moisture, chemicals, and abrasion. Material is clear polyester with a temperature range of -40°F to +300°F.



DX Part #	Width of Label (A) in.	Length of Printable Area (B) in.	Length of Label (C) in.	Labels Per Roll
TAG-1L-105	1.90	.75	3.25	1,000
TAG-2L-105	.50	.50	1.43	5,000
TAG-5L-105	.80	.50	1.43	5,000
TAG-9L-105	1.00	.75	2.25	1,000
TAG-10L-105	2.00	.75	2.25	1,000
TAG-26L-105	.50	.375	.75	5,000
TAG-49L-105	1.00	.35	1.00	2,500
TAG-50L-105	1.00	1.00	3.16	1,000
TAG-51L-105	1.00	.35	.75	5,000
TAG-52L-105	2.00	.47	1.33	1,000
TAG-63L-105	1.00	.50	1.33	2,500
TAG-64L-105	1.17	.83	3.33	1,000
TAG-65L-105	.81	.81	2.13	1,000

DOT MATRIX LABELS (TabTags)

Dot matrix labels are a cost-saving option for product identification. They may be printed on any standard dot matrix printer. Available in standard labels and in self-laminating form.

Standard TabTags

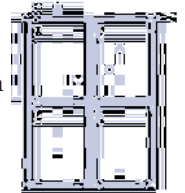
These dot matrix labels come in several different materials to meet a variety of applications. The most common material is 400 Polyester Film which is the most versatile including a temperature range of -65°F to +300°F, excellent smudge-resistance, and a two year outdoor durability.

DX Part #	Width of Label (in)	Length of Label (in)	Labels Per Package
TAG-43-400	.31	.31	5,000
TAG-18-400	.50	.437	5,000
TAG-34-400	.50	.75	5,000
TAG-11-400	.65	.20	5,000
TAG-13-400	.75	.25	5,000
TAG-48-400	.80	.50	5,000
TAG-16-400	.90	.25	5,000
TAG-14-400	1.00	.375	5,000
TAG-15-400	1.00	.50	5,000
TAG-27-400	1.50	.75	5,000
TAG-44-400	1.87	1.87	5,000
TAG-19-400	2.00	.375	5,000
TAG-45-400	4.00	.80	5,000

Note that additional sizes and material options (plastic cloth, vinyl cloth, PVF film, vinyl film, metalized polyester, paper) are available. Please consult our sales department for assistance.

Self-Laminating TabTags

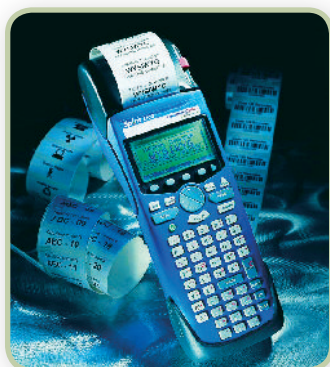
These dot matrix labels are manufactured with a clear, flexible film which wraps around the label for a self-lamination that protects against moisture, chemicals, and abrasion. They are made of 100 Vinyl Film, a UL approved material with a temperature rating of -50°F to +200°F.



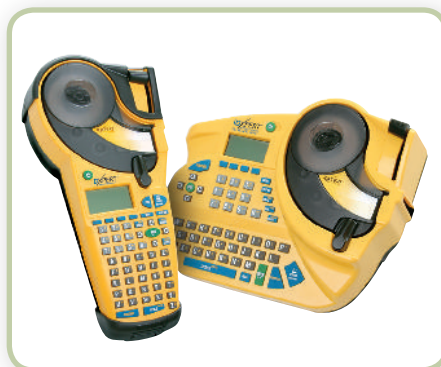
DX Part #	Width of Label (A) in.	Length of Printable Area (B) in.	Length of Label (C) in.	Labels Per Roll
TAG-26-100	.50	.375	.75	5,000
TAG-2-100	.50	.50	1.437	5,000
TAG-25-100	.75	.50	1.75	5,000
TAG-5-100	.80	.50	1.437	5,000
TAG-22-100	1.00	.50	1.437	5,000
TAG-9-100	1.00	.75	2.25	5,000
TAG-3-100	1.00	1.00	3.75	2,500
TAG-8-100	1.00	1.50	5.937	2,500
TAG-23-100	1.00	1.50	7.437	2,500
TAG-1-100	1.90	.75	3.19	2,500
TAG-24-100	2.00	.50	1.437	5,000
TAG-10-100	2.00	.75	2.25	2,500
TAG-6-100	2.00	1.00	3.75	2,500
TAG-4-100	2.00	1.50	5.937	2,500
TAG-7-100	2.00	1.50	7.437	2,500

HANDHELD PRINTERS

We offer an array of handheld printers to accommodate a variety of applications. The following HellermannTyton and Brady labelers are among our most popular choices. Please contact your sales representative for details.



Spirit 2100



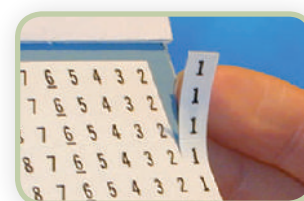
IDXpert



HandiMark

WIRE MARKER CARDS

Pre-printed with numbers and/or letters, wire marker cards are available in a variety of styles and materials. Standard wire marker cards, listed below, are white vinyl cloth with black print. The legends are solid (one character on each card), consecutive (sequential characters on each card), or consecutive repeated (sequential characters on each card, repeated).



Numbers

Solid Legend	Markers Per Card	DX Part #
0	36	WM-0
1	36	WM-1
2	36	WM-2
thru		and so on thru
99	36	WM-99
100	25	WM-100
thru		and so on thru
600	25	WM-600

Consecutive Legend	Markers Per Card	DX Part #
1-33	33	WM-1-33
34-66	33	WM-34-66
66-99	33	WM-66-99
100-124	25	WM-100-124
125-149	25	WM-125-149
and so on thru		and so on thru
1775-1799	25	WM-1775-1799

Letters

Solid Legend	Markers Per Card	DX Part #
A	36	WM-A
B	36	WM-B
and so on thru		and so on thru
Z	36	WM-Z
a	36	WM-A-SML
b	36	WM-B-SML
and so on thru		and so on thru
z	36	WM-Z-SML

Consecutive Legend	Markers Per Card	DX Part #
A-Z	26	WM-A-Z
a-z	26	WM-A-Z-SML

Numbers & Letters (repeated)

Consecutive Legend Repeated	Sequences Per Card	Markers Per Card	DX Part #
1-3	12	36	WM-1-3
1-4	9	36	WM-1-4
1-5	7	35	WM-1-5
1-6	6	36	WM-1-6
1-8	4	32	WM-1-8
1-9	4	36	WM-1-9
0-9	3	30	WM-0-9
0-10	3	33	WM-0-10
1-10	3	30	WM-1-10
1-12	3	36	WM-1-12
1-16	2	32	WM-1-16
1-18	2	36	WM-1-18
19-36	2	36	WM-19-36
A-E	7	35	WM-A-E
F-J	7	35	WM-F-J
K-O	7	35	WM-K-O
P-T	7	35	WM-P-T
U-Z	7	35	WM-U-Z

Note that all the markers on this page come in a variety of materials, colors, and styles (self-laminating available). Also available are other combinations of letters and numbers as well as symbols. Please contact our sales department for more information.

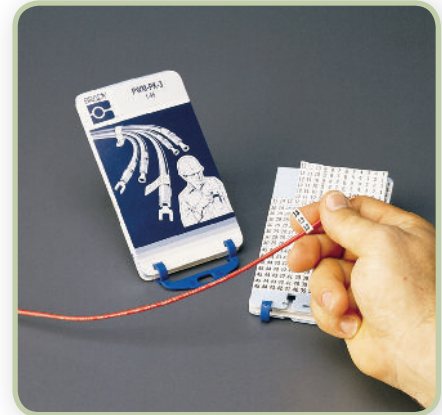
WIRE IDENTIFICATION

PORTA-PACK BOOKS:

These wire marker books are pocket-sized and easy to use. There are 10 pages per book and refills are available. There are 15 different books available (see below) and over 250 different refills (ask your DX sales representative). Standard material is white vinyl cloth.

DX Part Number	Legend	Markers Each Legend
PK-1	0 thru 9	45
PK-2	A thru Z, 0 thru 15, +, -, /	10
PK-3	1 thru 45	10
PK-4	1, 2, 3	150
PK-5	A, B, C	150
PK-6	T1, T2, T3	150
PK-7	L1, L2, L3	150
PK-8	1 thru 15	6
	16 thru 90	4
	A thru Z, +, -, /, 0	2
PK-9	1, 2, 3, A, B, C	45
	T1, T2, T3	30
	L1, L2, L3	30
PK-10	10 different NEMA colors	45
PK-11	1 thru 30	15
PK-12	A thru Z	15
	Blank Write-On Labels	18
	+	8
	-	7
PK-13	+, -, AC, DC	45
	Pos, Neg, Gnd, Neut	33
	Spare	21
	Blank Write-On Labels	21
PK-14	46 thru 90	10
PK-15	1 thru 45	5
	45 thru 90	5

The full line of Brady Porta-Pack wire marker books is available - contact our sales department for more information.

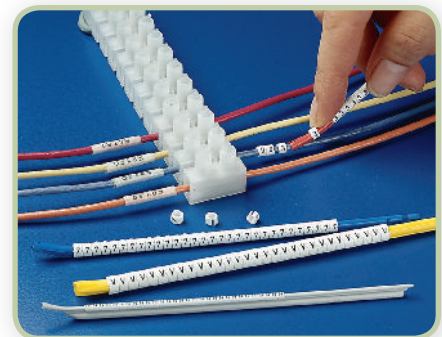


CLIP-TAGS:

These snap-on markers are easily installed with special wands. To apply, simply place the flared end of the wand over the wire and push the marker over the flare and onto the wire. Each wand holds 30 markers. There are 10 wands per package.

* Part Number	Wand Color	Wire AWG	O.D. Wire Range (in)	Package Quantity
SCN03-	Maroon	26 - 24	.037 - .051	300
SCN05-	Gray	22 - 20	.053 - .073	300
SCN07-	Light Blue	18	.075 - .087	300
SCN09-	Green	18	.098 - .110	300
SCN10-	Red	16 - 14	.110 - .134	300
SCN13-	Dark Blue	14	.134 - .181	300
SCN15-	Brown	14 - 12	.154 - .177	300
SCN18-	Yellow	10 - 8	.181 - .232	300

* Please insert the legend after the dash in the part number. Standard legends include 0-9, A to Z, + and -. For example, SCN13-A equals 300 clip-tags markers in legend "A".



3M #130C LINERLESS RUBBER SPLICING TAPE

Scotch 130C is a highly conformable, linerless rubber (epi) tape. Designed for use in splicing and terminating wires and cables with low and high voltage to 69kV applications. Rated 90°C (194°F) continuous operating temperature and short term 130°C (266°F) overload service. Good for moisture sealing electrical connections, bus bar insulation, and end sealing cables. Flame retardant. Moisture resistant.



DX Part #	Sizes
S-130C/34X30	3/4" X 30'
S-130C/1X30	1" X 30'
S-130C/112X30	1 1/2" X 30'
S-130C/2X30	2" X 30'

3M SUPER 88 VINYL TAPE



Super 88 is a premium grade heavy duty, 8.5 mil, flame retardant, cold and weather resistant tape. Extra thickness provides added electrical properties, quicker insulation buildup and abrasion resistance. Resists UV rays, moisture, alkalies, acids and corrosion.

Operating Range: -18°C (0°F) to 105°C (220°F).



DX Part #	Sizes
S-88	3/4" X 66'
S-88-2	2" X 108'

A variety of other 3M tapes are also available.

3M SUPER 33+ VINYL TAPE



Super 33+ is a premium grade, 7 mil tape that applies well at -18°C (10°F) and has an operating range up to 105°C (220°F). It resists UV rays, abrasion, moisture, alkalies, acids, and corrosion. Use 33+ as a primary insulation for wire cable splices up to 600v. Flame retardant.



DX Part #	Size
S-33+	3/4" X 66'

3M #35 VINYL COLORED TAPE



Scotch 35 is a premium grade, 7 mil, flame retardant, weather resistant tape with excellent electrical properties. It resists abrasion, UV rays, moisture, alkalies, solvents, and many acids. Use indoors and in weather protected outdoor applications such as phase identification, motor leads, piping systems, insulating splices and terminations and harnessing. Recommended for PVC and polyethylene jacketed cables.



DX Part #	Color	Size
S-35 BE	BLUE	3/4" X 66'
S-35 BN	BROWN	3/4" X 66'
S-35 GN	GREEN	3/4" X 66'
S-35 GY	GRAY	3/4" X 66'
S-35 OE	ORANGE	3/4" X 66'
S-35 PE	PURPLE	3/4" X 66'
S-35 RD	RED	3/4" X 66'
S-35 WE	WHITE	3/4" X 66'
S-35 YW	YELLOW	3/4" X 66'

Also available in 1/2" x 20' rolls.

PROTECTION PRODUCTS

PVC ELECTRICAL TAPE

UL 600V/80°C
(176°F)

This general purpose electrical tape is used to insulate and protect in both indoor and outdoor applications. It is great for wire and cable harnessing.

Thickness: 7 mil.

Color: Black.



DX Part #	Size
T3460U	3/4" X 60'

RUBBER SPLICING TAPE

This tape is suitable as a primary insulation for splices of not more than 600V. Normally, it is over wrapped with vinyl or friction tape.

Thickness: 30 mil.

Color: Black w/blue liner.



DX Part #	Size
RT-8	3/4" X 30'

FRICTION TAPE

Commonly used for over wrapping low voltage splices.

Thickness: .015

Color: Black



DX Part #	Size
FT-8	3/4" X 60'

PTFE (TEFLON) THREAD SEAL TAPE

Designed for sealing threaded pipe joints. Chemically inert.



DX Part #	Sizes
TF-12	1/2" X 260"
TF-34	3/4" X 260"

IMPORTANT NOTES

PART NUMBERS: Although the part numbers in this catalog are DX Electric part numbers, because of our extensive product knowledge, we can easily cross reference from any and all manufacturers' part numbers.

ADDITIONAL PRODUCTS: We offer a variety of products which are not shown within the pages of this catalog. Please contact our sales department for assistance on parts you cannot locate in the catalog.

UL: We are an authorized UL re-packager/re-spooler and can offer UL tags and/or labels on products upon request.

CUSTOM PACKAGING: We offer custom packaging from small to bulk sizes. Packages can be marked as the customer specifies (plain bags, marked bags, UL labels, reference to customer part numbers, reference to manufacturer part numbers).

CERTIFICATIONS: We offer a DX Certificate of Compliance and/or a manufacturer's Certificate of Compliance (for most manufacturers and products). Mil-Spec certifications available.

HEAT SHRINKABLE CABLE ENTRY SEALS



Easy to install, heat shrinkable cable entry seals provide a watertight, fumetight seal where cables enter connection boxes or other enclosures. A three part assembly consisting of a rigid plastic nut, an o-ring, and a molded heat-shrinkable internally-threaded nose, this system water seals the entrance of a cable into thinwall enclosures of up to $\frac{3}{16}$ " thickness. The o-ring seals at the enclosure. The heat-shrinkable nose seals on the sheath of the cable.

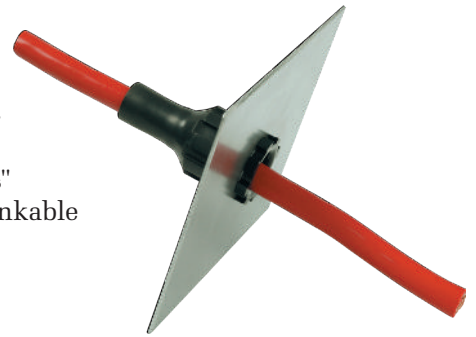
To meet U.S. Navy specifications and for general industrial use, a factory applied sealant provides the seal on the cable sheath.

Meets or exceeds **MIL-I-81765/1A**

Seals per **U.S. Coast Guard HQ3774**

Temperature Range: **-55°C to 90°C**

ABC approval

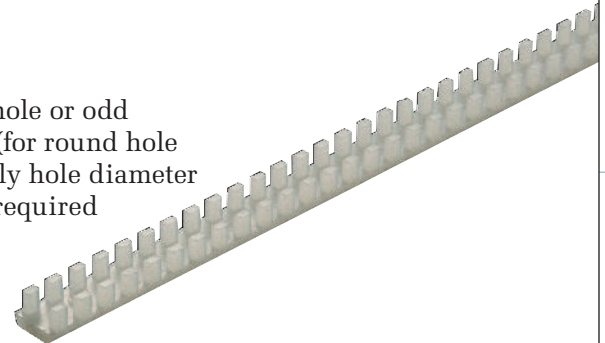


DX Part #	Overall Nominal Recovered Length	Min. Expanded I.D. Nose	Max. Recovered I.D. Nose	Nut I.D.	Drill Size
8114-1	2.75"	0.50"	0.17"	0.75"	1.00"
8114-2	2.75"	0.75"	0.25"	0.75"	1.00"
8114-3	3.75"	1.12"	0.50"	1.10"	1.38"
8114-4	4.50"	1.60"	0.75"	1.56"	2.00"
8114-5	7.00"	2.75"	1.43"	2.90"	3.50"

NOTE: If armored cable is used, the factory-applied sealant will not fill the interstices of the armor. The armor must be cut back so that the adapter is allowed to shrink and seal to the cable sheath as well as come down over the armor to keep the armor from unraveling, some armor must be approximately 1/4 to 3/8 inch inside the adapter leg.

MOLDED GROMMETING

- Meets MS21266-(1-4)N
- Available in 12 $\frac{3}{4}$ " lengths for panel thicknesses from .015" to .192"
- Grommet is used to protect panel edges and knock-outs where the chafing of passing wires is a concern
- Suitable for round hole or odd shape applications (for round hole applications multiply hole diameter by 3.14 to arrive at required grommet length)



DX Part #	Material	For Panel Thickness In (mm)	Military Standard Numbers
MS-GSN-1	Natural Nylon	.015 (.381) to .052 (1.32)	MS-21266-1N
MS-GSN-2		.053 (1.34) to .085 (2.15)	MS-21266-2N
MS-GSN-3		.086 (2.18) to .128 (3.25)	MS-21266-3N
MS-GSN-4		.128 (3.25) to .192 (4.88)	MS-21266-4N

PROTECTION PRODUCTS

SNAP BUSHINGS

- “Snaps” into holes with locking fingers.
- Withstands up to 35 lbs push back force.
- Protects wires and harnesses passing through raw-edged, sharp holes by creating an insulated, smooth hole.
- Standard color listed below is black. White also available.



DX Part #	Mounting Hole Dia. (in)	Inside Dia. (in)	Head Dia. (in)	Overall Height (in)	Max. Panel Thickness (in)
HEY2030	3/8	.250	.468	.406	.125
HEY2053	1/2	.391	.578	.406	.125
HEY2073	5/8	.500	.718	.406	.125
HEY2096	3/4	.609	.843	.406	.125
HEY2126	7/8	.687	.953	.453	.125
HEY2140	1	.766	1.125	.453	.125
HEY2201	1 1/4	1.00	1.31	.453	.125
HEY2210	1 3/8	1.00	1.468	.453	.125
HEY2240	1 1/2	1.312	1.609	.453	.125
HEY2300	1 3/4	1.375	1.875	.453	.125
HEY2400	2	1.64	2.125	.453	.125
HEY2461	3	2.47	3.16	.72	.250
HEY2479	4	3.46	4.17	.72	.250

Other sizes available upon request.

HOLE PLUGS

- Closes unneeded chassis/panel holes.
- Snap-in mechanism provides ease of installation.
- Standard color listed below is black. White also available.



DX Part #	Mounting Hole Dia. (in)	Head Dia. (in)	Overall Height (in)	Max. Panel Thickness (in)
HEY2603	1/4	.312	.312	.062
HEY2613	5/16	.375	.312	.062
HEY2617	3/8	.468	.406	.125
HEY2643	1/2	.578	.406	.125
HEY2663	5/8	.718	.406	.125
HEY2683	3/4	.921	.406	.125
HEY2703	7/8	1.015	.453	.125
HEY2713	1	1.203	.453	.125
HEY2740	1 1/4	1.375	.453	.125
HEY2763	1 1/2	1.671	.453	.125
HEY2773	1 3/4	1.906	.453	.125
HEY2783	2	2.17	.469	.125

Other sizes available upon request.

UNIVERSAL BUSHINGS

- “Shutters” provide flexibility to accommodate a variety of wire and harness sizes passing through the hole.
- Snap-in mechanism provides ease of installation.
- Absorbs vibration and insulates with limited internal clearance.



of

DX Part #	Mounting Hole Dia. (in)	Inside Dia. (in)	Head Dia. (in)	Overall Height (in)	Max. Panel Thickness (in)
HEY2055	1/2	.312	.600	.385	.125
HEY2089	3/4	.500	.844	.390	.125
HEY2119	7/8	.562	.937	.453	.125
HEY2137	1	.750	1.063	.453	.125
HEY2184	1 3/8	1.00	1.49	.453	.125
HEY2213	1 1/2	1.062	1.61	.450	.125

Other sizes available upon request.

VENT PLUGS

- Snap-in mechanism provides ease of installation.
- Air holes allow for ventilation and heat dissipation.
- Standard color listed below is black. White also available.



DX Part #	Mounting Hole Dia. (in)	Head Dia. (in)	Overall Height (in)	Max. Panel Thickness (in)
HEY2637	1/2	.578	.406	.125
HEY2677	3/4	.906	.406	.125
HEY2707	1	1.203	.453	.125

Other sizes available upon request.

OTHER PROTECTIVE PRODUCTS

- Grommets
- Straight Connectors
- Liquid-Tight Straight-Thru Fittings
- Liquid-Tight Pigtail Fittings
- Metal Cord-Grip Fittings
- Liquid-Tight Tubing
- Snap-In & Quick-Twist Connectors
- Strain Reliefs (all types)



NYLON CLAMPS

#10 Mounting Hole

Designed to secure wires, tubing, hose, and cables. Chemical resistant.

DX Part Number Natural	DX Part Number UV Black	Clamping Dia.	Width	Mounting Hole Size
NC-18	NC-18B	1/8"	3/8"	.203
NC-316	NC-316B	3/16"	3/8"	.203
NC-14	NC-14B	1/4"	3/8"	.203
NC-516	NC-516B	5/16"	3/8"	.203
NC-38	NC-38B	3/8"	3/8"	.203
NC-12	NC-12B	1/2"	3/8"	.203
NC-716	NC-716B	7/16"	3/8"	.203
NC-58	NC-58B	5/8"	1/2"	.203
NC-34	NC-34B	3/4"	1/2"	.203
NC-1	NC-1B	1"	1/2"	.203



MEDIUM DUTY STEEL CLAMPS

Vinyl Cushioned: 1/2" Width

Mounting Hole fits 1/4" bolt

Steel, zinc plated clamp with a black vinyl cushion. Provides cushion against damage from rubbing, slipping, twisting, and vibration.

DX Part Number	Clamping Dia.
VSC-316	3/16"
VSC-14	1/4"
VSC-516	5/16"
VSC-38	3/8"
VSC-12	1/2"

DX Part Number	Clamping Dia.
VSC-58	5/8"
VSC-34	3/4"
VSC-1	1"
VSC-114	1 1/4"
VSC-112	1 1/2"



HEAVY DUTY STEEL CLAMPS

Vinyl Cushioned: 3/4" Width

Mounting Hole fits 3/8" bolt

Steel, zinc plated clamp with a black vinyl cushion. Provides cushion against damage from rubbing, slipping, twisting, and vibration.

DX Part Number	Clamping Dia.
HDC-14	1/4"
HDC-38	3/8"
HDC-12	1/2"
HDC-58	5/8"
HDC-34	3/4"

DX Part Number	Clamping Dia.
HDC-1	1"
HDC-114	1 1/4"
HDC-112	1 1/2"
HDC-134	1 3/4"
HDC-2	2"

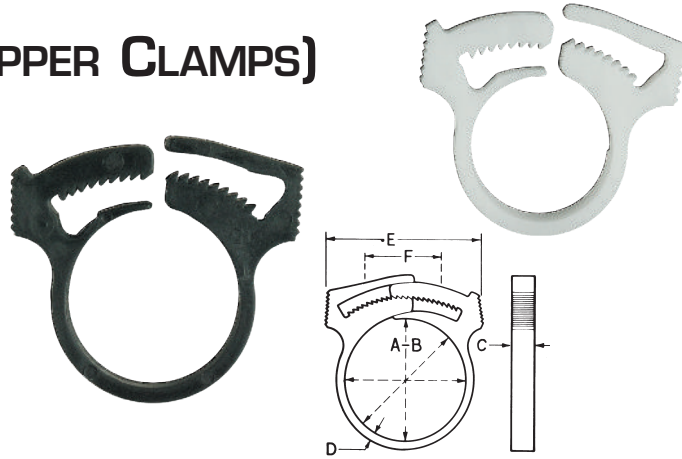


CLAMPS & CLIPS

PLASTIC HOSE CLAMPS (SNAPPER CLAMPS)

Lightweight, corrosion resistant hose clamps. A quick ratchet closure provides for reduced assembly line time and allows for application after connection of the hose. Available in 32 standard sizes ranging from ¼" to 4 ½" ID. Available in white (acetal) and black (heat and uv stabilized, glass filled impact modified, nylon 6/6).

Dimensions shown in acetal material. "A" completely closed, excluding rib. Average of the three angles. "B" same as "A" except with two teeth engaged.



DX Part # Color White	Min. Dia.	Max. Dia.	Typical Dimensions				Number of Teeth
	A	B	C	D	E	F	
SNP-1	.228	.256	.148	.040	.451	.320	12
SNP-1.25	.269	.291	.149	.042	.486	.404	8
SNP-1.5	.307	.342	.146	.054	.587	.410	12
SNP-2	.351	.394	.231	.067	.672	.472	12
SNP-3	.387	.440	.232	.069	.797	.561	16
SNP-4	.404	.452	.233	.066	.749	.524	12
SNP-6	.449	.511	.233	.069	.838	.572	14
SNP-7	.453	.546	.233	.069	1.112	.722	18
SNP-8	.513	.586	.231	.069	.971	.647	16
SNP-10	.569	.650	.233	.068	1.028	.675	16
SNP-12	.616	.707	.234	.070	1.062	.689	18
SNP-14	.702	.801	.233	.067	1.156	.744	18
SNP-16	.759	.848	.232	.067	1.210	.787	18
SNP-18	.779	.899	.237	.069	1.337	.857	22
SNP-19	.859	.989	.232	.070	1.409	.899	22
SNP-22	.928	1.072	.234	.070	1.473	.932	22
SNP-24	.985	1.135	.292	.069	1.523	.963	22
SNP-28	1.123	1.296	.288	.068	1.631	1.008	26
SNP-32	1.218	1.405	.287	.068	1.724	1.064	26
SNP-33	1.283	1.595	.290	.067	2.517	1.564	44
SNP-34	1.338	1.566	.292	.068	1.966	1.186	34
SNP-36	1.472	1.724	.287	.067	2.092	1.261	34
SNP-38	1.594	1.862	.291	.068	2.239	1.349	34
SNP-42	1.730	2.010	.354	.068	2.302	1.369	26
SNP-50	1.999	2.277	.291	.067	2.341	1.411	30
SNP-60	2.259	2.582	.290	.067	2.559	1.449	40
SNP-70	2.507	2.897	.370	.077	2.990	1.816	28
SNP-76	2.839	3.206	.387	.066	2.834	1.687	36
SNP-80	3.155	3.523	.449	.100	3.140	1.894	28
SNP-90 (Black Only)	3.506	3.922	.385	.067	3.204	1.917	34
SNP-100	3.871	4.395	.394	.098	3.508	2.048	50
SNP-101 (Black Only)	4.033	4.617	.442	.098	4.219	2.402	56

For Black add "B" to Part #

All dimensions in inches, may vary ± .025"

CLAMP INSTALLATION TOOLS

DX Part #	Use	Clamp Range
MSNP1-70	MAINTENANCE	1-70
ASNP2-22	PRODUCTION	2-22
ASNP24-70	PRODUCTION	24-70



MSNP1-70


























ASNP2-22



ASNP24-70

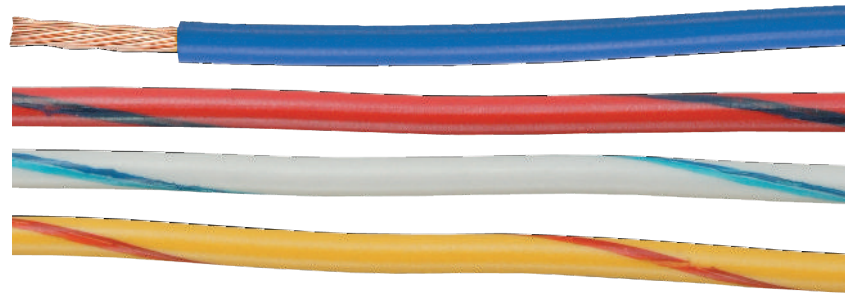
CLIPS & INSULATORS

  		
DX Part #	AC-30	AC-30-C
Material	STEEL	COPPER
Length	1 3/32"	1 3/32"
Jaws Open	3/16"	3/16"
AMP Rating	5	5
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-21-A	AC-21-C
Material	STEEL	COPPER
Length	4 7/64"	4 7/64"
Jaws Open	1 1/16"	1 1/16"
AMP Rating	50	100
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-25	AC-25-C
Material	STEEL	COPPER
Length	3"	3"
Jaws Open	3/4"	3/4"
AMP Rating	40	75
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-27	AC-27-C
Material	STEEL	COPPER
Length	2 7/16"	2 7/16"
Jaws Open	5/8"	5/8"
AMP Rating	20	40
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-45	AC-45-C
Material	STEEL	COPPER
Length	1 17/32"	1 17/32"
Jaws Open	5/16"	5/16"
AMP Rating	5	10
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-60-S	AC-60-CS
Material	STEEL	COPPER
Length	1 31/32"	1 31/32"
Jaws Open	5/16"	5/16"
AMP Rating	10	10
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
  		
DX Part #	AC-85	AC-85-C
Material	STEEL	COPPER
Length	2 1/8"	2 1/8"
Jaws Open	5/16"	5/16"
AMP Rating	5	10
		Vinyl Insulator available in Black, Red, Yellow, Green, Blue, and White.
 		
DX Part #	AC-60-HS	AC-60-CHS
Material	STEEL	COPPER
Length	2 11/32"	2 11/32"
Jaws Open	5/16"	5/16"
AMP Rating	10	10
		Handles available in Black, Red, Yellow, Green, Blue, and White.

PVC PRIMARY WIRE

80°C (176°F)

- Recommended for trucks, tractors, cars, boats, and general service.
- For use at 50 volts or less. Meets SAE J1128 specifications.
- Stranded annealed, single conductor copper wire.
- General purpose thermoplastic (GPT).



AVAILABLE COLORS: Black, Brown, Dark Blue, Light Blue, Dark Green, Light Green, Pink, Gray, Orange, Purple, Red, White, and Yellow.

8 GAUGE AVAILABLE IN: Black, Red, and White.

Striped wire is available.

DX Part #	AWG
GPT 18	18
GPT 16	16
GPT 14	14
GPT 12	12
GPT 10	10
GPT 8	8

UL STYLE 1007

UL® SF® 300V 80°C (176°F)

- Tinned copper conductor.
- PVC insulated, 1/64" (.016) wall.
- Rated 600V peak for electronic circuits and internal wiring of electronic and electrical equipment.
- Passes VW-1 vertical wire flame test.

UL STYLE 1015

UL® SF® 600V 105°C (221°F)

- Tinned copper conductor.
- PVC insulated, 1/32" (.032) wall.
- Rated 2500V peak for electronic circuits and internal wiring of electronic and Electrical equipment.
- Passes VW-1 vertical wire flame test.



DX Part #	AWG	Stranding	Insulation O.D. Nominal (in)
UL1007 26	26	7/34	.051
UL1007 24	24	7/32	.057
UL1007 22	22	7/30	.064
UL1007 20	20	10/30	.071
UL1007 18	18	16/30	.081
UL1007 16	16	26/30	.094

AVAILABLE COLORS: Blue, Black, Brown, Green, Orange, Red, White, Yellow.

Striped wire is available.

DX Part #	AWG	Stranding	Insulation O.D. Nominal (in)
UL1015 18	18	16/30	.112
UL1015 16	16	26/30	.125
UL1015 14	14	41/30	.140
UL1015 12	12	65/30	.163
UL1015 10	10	105/30	.194

AVAILABLE COLORS: Blue, Black, Brown, Green, Orange, Red, White, Yellow.

Striped wire is available.

BUILDING WIRE TYPE TFFN & THHN

UL **SP** 600V 90°C (194°F)

- Stranded bare copper
- PVC insulated with outer nylon jacket
- Gas and oil resistant
- Typical Use: Machine tools, controls, switchboards, instruments, and building lighting

Many other types of wire & cable available.



TFFN

DX Part #	AWG
N 18	18
N 16	16

Colors: Blue, Black, Brown, Green, Gray, Orange, Purple, Pink, Red, White, and Yellow.



THHN

DX Part #	AWG
N 14	14
N 12	12
N 10	10

Colors: Blue, Black, Brown, Green, Gray, Orange, Purple, Pink, Red, White, and Yellow.

Type THHN is available in larger wires gauges. Please contact our sales department for assistance.

SWITCHBOARD WIRE

UL **SP** 600V 90°C (194°F)

- Very flexible crosslink (XLPE) insulated wire.
- Suitable for use in 90°C (194°F) dry locations.
- For wiring of switchboards.
- Standard Color: Gray
- Other colors available.



VW-1 Flame Retardant

DX Part #	AWG	Stranding
SIS 14 GY FR	14	41/30
SIS 12 GY FR	12	65/30
SIS 10 GY FR	10	105/30

Non VW-1

DX Part #	AWG	Stranding
SIS 18 GY*	18	16/30
SIS 16 GY*	16	26/30
SIS 14 GY	14	41/30
SIS 12 GY	12	65/30
SIS 10 GY	10	105/30
SIS 8 GY	8	133/29

* To meet UL/CSA for this wire, we offer UL3173 upon request.

ELECTRONIC SHIELDED CABLE

UL 300V 60°C (140°F)

- Tinned copper conductors.
- Overall aluminum/polyester shield & stranded tinned copper drain wire.
- Chrome gray PVC jacket.



DX Part #	AWG	# Conductors
18 X 2 SHLD	18	2
18 X 3 SHLD	18	3
18 X 4 SHLD	18	4
20 X 2 SHLD	20	2
22 X 2 SHLD	22	2
22 X 3 SHLD	22	3
22 X 4 SHLD	22	4
22 X 6 SHLD	22	6

Other gauges and conductors available upon request.

PORTABLE POWER CABLE:

Type SJ

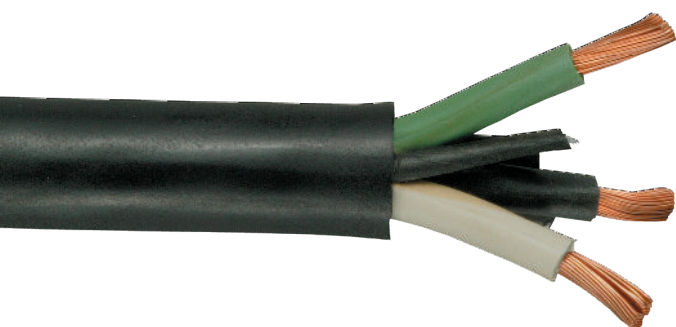
UL 300V 60°C (140°F) Black Rubber Jacket

Suitable for use in conditions where the cord is not subject to acid, grease, oil, or solvents. Designed for use with portable tools, equipment, and motors.

DX Part #	AWG	# Conductors
SJ 14 X 2	14	2
SJ 14 X 3	14	3

Standard put-up: 250'

Additional sizes available. Please contact our sales department.



Type SJO

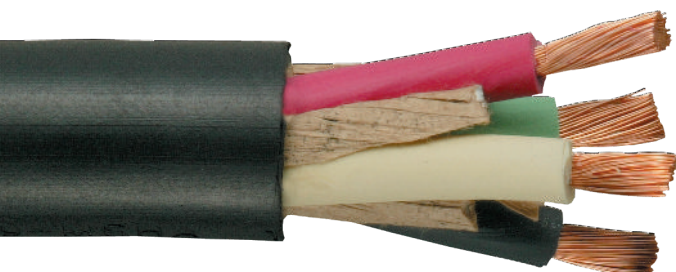
UL **SR** 300V 90°C (194°F)
Black Neoprene Jacket

Oil, water, and weather resistant. Designed for use with portable tools, equipment, and motors.

DX Part #	AWG	# Conductors
SJO 18 X 3	18	3
SJO 16 X 2	16	2
SJO 16 X 3	16	3
SJO 14 X 2	14	2
SJO 14 X 3	14	3
SJO 14 X 4	14	4
SJO 12 X 3	12	3
SJO 12 X 4	12	4

Standard put-up: 250'

Additional sizes available. Please contact our sales department.



Type SO

UL **SR** 600V 90°C (194°F)
Black Neoprene Jacket

Oil, water, and weather resistant. Designed for use with industrial equipment, heavy tools, and power extensions.

DX Part #	AWG	# Conductors
SO 16 X 2	16	2
SO 16 X 3	16	3
SO 16 X 4	16	4
SO 14 X 3	14	3
SO 14 X 4	14	4
SO 12 X 3	12	3
SO 12 X 4	12	4
SO 10 X 3	10	3
SO 10 X 4	10	4

Standard put-up: 250'

Additional sizes available. Please contact our sales department.

WELDING CABLE 600V 105°C (221°F)

- Highly flexible neoprene jacket.
- Flame retardant.
- Oil, tar, & grease resistant.



DX Part #	AWG	Stranding
WC 6	6	285
WC 4	4	412
WC 2	2	647
WC 1	1	817
WC 10	1/0	1021
WC 20	2/0	1289
WC 30	3/0	1650
WC 40	4/0	2065

Available in Black or Red – Please specify when ordering.

BATTERY AND STARTER CABLE 80°C (176°F)



- Recommended for connecting battery to switch, starter and ground.
- Tough, high temperature PVC insulation resistant to abrasion, chemical, oil, & weather.
- For use at 50 volts or less.

DX Part #	AWG	Stranding
BC 6	6	49
BC 4	4	70
BC 2	2	133
BC 1	1	133
BC 10	1/0	133
BC 20	2/0	133
BC 30	3/0	259
BC 40	4/0	418

Available in Black or Red – Please specify when ordering.

DIESEL LOCOMOTIVE CABLE INDUSTRIAL MOTOR LEAD CABLE (DLO) 2000V 90°C (194°F)



Applications:

- Telecom power supply
- Oil and gas drilling rigs
- Motor leads
- Shipyards
- Diesel electric locomotives

Features:

- Chlorinated polyethylene (CPE) black jacket
- EPR inner insulation
- Excellent impact and abrasion resistance
- Resists oils, acids, alkalies, heat, & flame
- Flexible tinned copper stranding

DX Part #	Area Cir. Mils	AWG	No. of Wires in Conductor	Insulation Thickness (in)	Jacket Thickness (Mils)	Overall Diameter (in)	Ampacity
DLO 14 2KV	3831	14	19	.045	30	.24	32
DLO 12 2KV	6088	12	19	.045	30	.25	36
DLO #10 2KV	10910	10	27	.045	30	.29	55
DLO 8 2KV	14950	8	37	.060	30	.33	83
DLO 6 2KV	24640	6	61	.060	30	.40	109
DLO 4 2KV	42420	4	105	.060	30	.45	145
DLO 2 2KV	60600	2	150	.060	30	.50	192
DLO 1 2KV	90900	1	225	.080	45	.64	223
DLO 10 2KV	111100	1/0	275	.080	45	.69	258
DLO 20 2KV	131300	2/0	325	.080	45	.73	298
DLO 30 2KV	181800	3/0	450	.080	45	.80	345
DLO 40 2KV	222200	4/0	550	.080	45	.86	400
DLO 262 2KV	262600	262	650	.095	65	.97	458
DLO 313 2KV	313100	313	775	.095	65	1.04	514
DLO 373 2KV	373700	373	925	.095	65	1.11	574
DLO 444 2KV	444400	444	1100	.095	65	1.18	642
DLO 535 2KV	535300	535	1325	.110	65	1.29	725
DLO 646 2KV	646400	646	1591	.110	65	1.38	815
DLO 777 2KV	777700	777	1924	.110	65	1.47	910
DLO 929 2KV	929200	929	2299	.110	65	1.58	1025
DLO 1111 2KV	1111000	1111	2745	.110	65	1.74	1143

Shipping Tolerance +/- 10%

RATCHET CRIMPING TOOLS



ERG-2001

- High quality production crimping tool.
- Crimps nylon and vinyl terminals, splices and disconnects.
- Wire sizes 22-10 AWG.
- Color-coded die nests.
- Ratchet mechanism helps to ensure a complete crimp cycle before it releases.
- The tool toggle action increases mechanical gain, which dramatically reduces handle force and the stress on your hands.

Concerned about safety? Down time? Health care costs?

This new ergonomically designed crimping tool helps reduce the risk of carpal tunnel syndrome – the cause of almost one out of every two industrial injuries. This tool's unique design delivers the same reliable crimp with up to 60% less handle force than other terminal hand tools. Thus, you won't have to sacrifice your hand to make a successful crimp. We've researched the tool components to provide maximum comfort to the operator while assuring a complete crimp. Just wrap your hands around our new crimping tool. It's such a relief you won't want to handle any other tool ever again.

Thomas & Betts

We carry the full line of T&B tools – from small gauge crimpers to large battery operated and hydraulic tools



CTR22-10F

- Ratchet hand tool.
- Has three elliptical shaped nests for crimping insulated terminals and splices.
- Wire Sizes 22-10 AWG.
- 9 1/8" in length and weighs 12.4 oz.

NON-RATCHET CRIMPING TOOLS



429

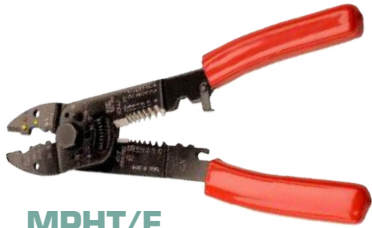
- Plier type crimper and cutter.
- Crimps insulated and non-insulated terminals and splices 22-10 AWG.
- Vanadium steel forging withstands the toughest use.



WT112M

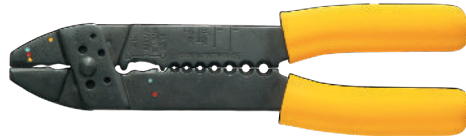
- Plier type crimper and cutter.
- For insulated and non-insulated terminals 22-10 AWG.

MAINTENANCE, MULTI-PURPOSE HAND TOOLS



MPHT/F

- Multi-purpose hand tool: crimper, wire cutter, screw cutter, & wire stripper.
- Durable reliable, tough, yet lightweight.
- Crimps insulated and non-insulated terminals and splices.
- Wire Sizes 22-10 AWG



TH-450

- Multi-purpose hand tool: crimper, wire cutter, screw cutter, & wire stripper.
- Made of 1.40" high strength, heat-treated carbon steel.
- Crimps insulated and non-insulated terminals and splices (including flags & closed-end connectors).
- Wire sizes 26-6 AWG



WT2000

- Multi purpose hand tool: crimper, wire cutter, screw cutter, & wire stripper.
- Crimps insulated and non-insulated terminals and splices.
- Wire Sizes 22-10 AWG.

LARGE GAUGE CRIMPING TOOLS

SKT-840

- Economical alternative for crimping large gauge lugs and terminals.
- Used for lower volume and maintenance jobs.
- With a simple swing of the hammer, get a solid crimp.
- For non-insulated terminals and splices 8-4/0 AWG.



WT115A

- Heavy duty toggle-type hand tool.
- For non-insulated terminals 8-2 AWG.



CT8-2

- Heavy duty lever type crimp tool.
- Designed for both insulated and non-insulated terminals and splices.
- 8-2 AWG.
- Wire ranges are marked on each die space.
- Comfortable vinyl grip handles.
- Length: 19".
- Weight: 4.5 lbs.

CT8-40F

- Heavy duty hand tool.
- Diamond shape crimps compresses all strands together to form a solid mass of copper, assuring a low resistance.
- For battery terminals, lugs and connectors.
- Built-in rotating dies.
- Crimps #6 AWG thru 250 mcm.
- Length: 25".
- Weight: 6.2 lbs.



PNEUMATIC CRIMPING TOOLS



AT-200 Air Tool Crimper

26-10 AWG

Excellent for users requiring high-volume loose piece wire terminations. Just a light squeeze of the trigger handle activates the pneumatically driven jaws. Operates on a standard shop air line (85-95 psi). The tool's die head is factory-calibrated to assure perfect crimps every time and can be interchanged in under a minute. Different die heads that accommodate both non-insulated and insulated terminals, splices, quick disconnects and nylon closed-end connectors are available. Features a terminal locator for positioning the terminal correctly in the die.

AT-200/BM

- Bench mount for AT-200 air tool.
- Holds the AT-200 in place to free up both hands of the operator.
- Comes with a foot switch.

ATP-301 Electric/Pneumatic Crimp Press for Reel-Fed, Tape Mounted Terminals and Splices

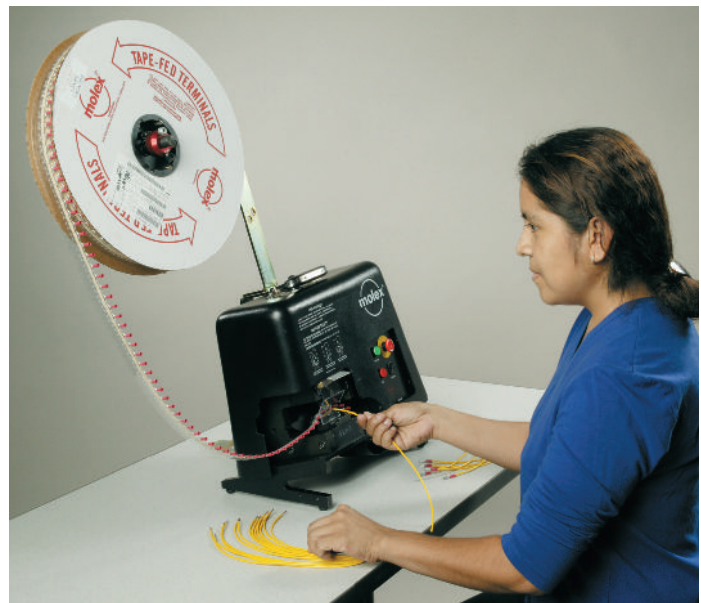
26-6 AWG

This easy-to-use machine is designed to achieve high crimping rates for medium volume production while lowering your total applied costs. It operates on standard shop air (95-110 PSI & 120V AC)

Features:

- Foot pedal actuation allows hands-free operation.
- Crimps in excess of 2000 per hour (depending on operator skill).
- Versatile, compact, lightweight and portable.
- Overhead reel mounting requires less workbench space.
- Product and die changeover in just minutes.
- Fast and reliable.
- Meets ISO standards.
- Crimps terminals, quick disconnects and splices.

This is a lease tool only. Call the sales department for details.



CRIMP TOOLS *for color coded lugs and splices*



CTH-4-1000/F

Hydraulic, dieless crimping tool with a patented pressure system that automatically changes crimping force for each connector size/type. Crimps color coded lugs and splices from #4 AWG through 1000 MCM copper. Other features include a swivel head which rotates 180° for maximum flexibility as well as a hinged head for easy connector loading and unloading.



WE CARRY A VARIETY OF BATTERY OPERATED CRIMP TOOLS.

PLEASE CONTACT OUR SALES DEPARTMENT FOR MORE INFORMATION.



TBM25S

Quality ratchet tool. Installs color coded lugs and splices #8 thru #2 AWG copper. A rotary color coded die wheel is rotated into position and each die has die code embossing.

TDM-250 & TDM-500

Mechanical compression tool with built-in dies. All steel, durable construction. No dies to change or lose. Easy to read settings.

TDM-250 Crimps #8 thru 250 MCM

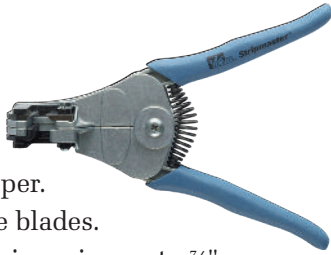
TDM-500 Crimps #8 thru 500 MCM



Other crimp tools for color coded lugs & splices available.

WIRE STRIPPERS

45-092



- Wire stripper.
- Knife-type blades.
- Cleanly strips wire up to 7/8".
- For wire sizes 22-10 AWG.

WS-1916/GL



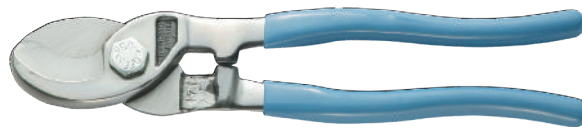
- Wire cutter and stripper.
- Precision stripper for 20-10 AWG.
- Weight: only 4 oz.
- Length: 6".

CABLE CUTTERS



UPB-41

- Heavy duty cable cutter.
- Ideal tool for communication and electrical industry applications.
- Cuts up to #2 AWG copper stranded cable.



UPB-240

- Heavy duty cable cutter.
- High leverage cutter.
- Recommended for cutting up to 2/0 AWG stranded copper.

HEAVY DUTY CABLE CUTTERS



- Strong, lightweight fiberglass handles.
- Adjustable pivot bolt provides for blade adjustment.
- Replaceable, forged, heat-treated, precision ground blades.

DX Part #	Length (in.)	Weight (lbs.)	Max. Usage	Frequent Usage
CC704	21	3.01	350 MCM	250 MCM
CC705	25 1/2	5.5	500 MCM	350 MCM
CC706	31 1/2	6.2	750 MCM	500 MCM

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and Houston!*