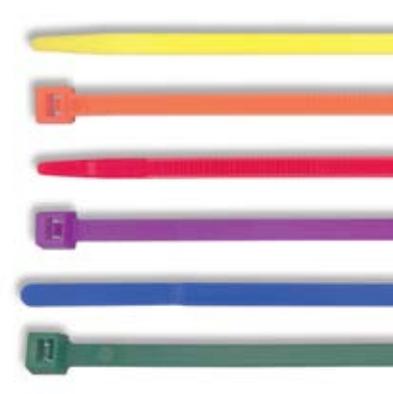




Cable Management Products



Product Selection Guide – Canada

- Heat Shrinkable Tubing
- Terminals
- Cable Ties
- Clamps
- Primary Wire
- Loom
- Other Wiring Accessories



A Pegasus Company

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Single Wall Heat Shrinkable Tubing

Thermosleeve®



- Cost effective, single wall polyolefin
- Excellent flexibility and high flame-retardance
- Low shrink temperature—shrinks 2:1 at 90°C (194°F)
- UL recognized at 125°C (257°F), 600V

- Wide range of sizes and colors
- RoHS Compliant



12000 Series



13000 Series

Small and Medium Spools

(for larger spools, see 'Bulk Program' on page 3)



Original Diameter in.	Length ft.	Part Numbers									
		Black	White	Red	Orange	Yellow	Green	Blue	Violet	Grey	Clear*
Small Spools											
3/64	25	12100	12190								12110
1/16	25	12009	12099	12029	12039	12049	12059	12069	12079	12089	12019
3/32	25	12200	12290	12220	12230	12240	12250	12260	12270	12280	12210
1/8	25	12000	12090	12020	12030	12040	12050	12060	12070	12080	12010
3/16	25	12001	12091	12021	12031	12041	12051	12061	12071	12081	12011
1/4	15	12002	12092	12022	12032	12042	12052	12062	12072	12082	12012
3/8	10	12003	12093	12023	12033	12043	12053	12063	12073	12083	12013
1/2	10	12004	12094	12024	12034	12044	12054	12064	12074	12084	12014
Medium Spools											
3/64	100	13100	13190								13110
1/16	100	13009	13099	13029	13039	13049	13059	13069	13079	13089	13019
3/32	100	13200	13290	13220	13230	13240	13250	13260	13270	13280	13210
1/8	100	13000	13090	13020	13030	13040	13050	13060	13070	13080	13010
3/16	100	13001	13091	13021	13031	13041	13051	13061	13071	13081	13011
1/4	75	13002	13092	13022	13032	13042	13052	13062	13072	13082	13012
3/8	50	13003	13093	13023	13033	13043	13053	13063	13073	13083	13013
1/2	40	13004	13094	13024	13034	13044	13054	13064	13074	13084	13014
3/4	20	13005	13095	13025	13035	13045	13055	13065	13075	13085	13015
1	10	13006	13096	13026	13036	13046	13056	13066	13076	13086	13016
1-1/2**	8	13007	13097	13027	13037	13047	13057	13067	13077	13087	13017
2**	6	13008	13098	13028	13038	13048	13058	13068	13078	13088	13018

*Clear is not CSA/UL rated as flame retardant

**1-1/2" and 2" are packaged in a poly bag

Single Wall Heat Shrinkable Tubing

Thermosleeve®

Small and Large Blister Cards

Part #	Description	Color	Pcs./Pack
Large Blister Cards			
11001	2" diam. x 12" long	black	1
11002	2" diam. x 12" long	white	1
11003	1.5" diam. x 24" long	blue	1
11004	1.5" diam. x 24" long	red	1
11005	1.5" diam. x 24" long	green	1
11006	1.5" diam. x 24" long	yellow	1
11007	1" diam. x 12" long	assorted	4
11016	1/8" to 1" diam. x 12" long	assorted	7
Small Blister Cards			
11008	1 pc 3/4"; 2 pcs 1/2"; 2 pcs 3/8"x 6" long	black / white	5
11010	1/2" diam. x 6" long	assorted	5
11011	3/8" diam. x 6" long	assorted	5
11012	2 pcs 1/4"; 2 pcs 3/16"; 2 pcs 1/8"x 6" long	black / white	6
11014	1/4" diam. x 6" long	assorted	6
11015	3/16" diam. x 6" long	assorted	6
11009	1/8" diam. x 6" long	assorted	6
11013	2 pcs 1/16"; 2 pcs 3/64"; 2 pcs 3/32"x 6" long	black	6



11000 Series

Choose the right size of Thermosleeve® to:



Cover, protect, and identify tools



Use around the home, garage, and cottage



Customize and repair sporting equipment

Make professional looking repairs easier!



Single Wall Heat Shrinkable Tubing

Thermosleeve® Bulk Program

Popular 4 ft. Lengths in Poly Bags

Note: Some sizes and colors are available by special order only. Contact customer service with your requirements.



Original Diameter in.	Length ft.	Colors & Part Numbers									
		Black	White	Red	Orange	Yellow	Green	Blue	Violet	Grey	Clear*
1/16	25	91009	91099	91029	91039	91049	91059	91069	91079	91089	91019
3/32	25	91200	91290	91220	91230	91240	91250	91260	91270	91280	91210
1/8	25	91000	91090	91020	91030	91040	91050	91060	91070	91080	91010
3/16	25	91001	91091	91021	91031	91041	91051	91061	91071	91081	91011
1/4	15	91002	91092	91022	91032	91042	91052	91062	91072	91082	91012
3/8	15	91003	91093	91023	91033	91043	91053	91063	91073	91083	91013
1/2	10	91004	91094	91024	91034	91044	91054	91064	91074	91084	91014
3/4	10	91005	91095	91025	91035	91045	91055	91065	91075	91085	91015
1	10	91006	91096	91026	91036	91046	91056	91066	91076	91086	91016
1-1/2	5	91007	91097	91027	91037	91047	91057	91067	91077	91087	91017
2	5	91008	91098	91028	91038	91048	91058	91068	91078	91088	91018
3	5	91300	91390	91320	91330	91340	91350	91360	91370	91380	91310

*Clear is not CSA/UL rated as flame retardant

Large Spools

Note: Some sizes and colors available by special order only. Standard spool size can vary in some cases. Contact customer service with your requirements.

Original Dia. in.	Length ft.	Colors & Part Numbers										
		Black	White	Red	Orange	Yellow	Green	Blue	Violet	Grey	Clear*	Brown
3/64	1320	19100	19190	19120	19130	19140	19150	19160	19070	19180	19010	-
1/16	1320	19009	19099	19029	19039	19049	19059	19069	19079	19089	19019	19609
3/32	1320	19200	19290	19220	19230	19240	19250	19260	19270	19280	19210	-
1/8	1320	19000	19090	19020	19030	19040	19050	19060	19070	19080	19010	19600
3/16	330	19001	19091	19021	19031	19041	19051	19061	19071	19081	19011	19601
1/4	330	19002	19092	19022	19032	19042	19052	19062	19072	19082	19012	19602
3/8	330	19003	19093	19023	19033	19043	19053	19063	19073	19083	19013	19663
1/2	330	19004	19094	19024	19034	19044	19054	19064	19074	19084	19014	19604
3/4	330	19005	19185	19025	19035	19045	19055	19065	19075	19085	19015	19605
1	100	19006	19196	19126	19136	19146	19156	19166	19176	19186	19116	19606
1-1/2	82	19007	19097	19027	19037	19047	19057	19067	19077	19087	19017	19607
2	82	19008	19098	19028	19038	19048	19058	19068	19078	19088	19018	19608
3	82	19300	19390	19320	19330	19340	19350	19360	19370	19380	19310	-
4	82	19400	19490	19420	19430	19440	19450	19460	19470	19480	19410	-

Available in alternate lengths; instead of 1320, 660; instead of 330, 100 ft.

*Clear is not UL rated as flame retardant

Cutting Service

Custom cutting is available. Select the part number from the 'Large Spools' table (minimum order must be the equivalent of one spool). Contact customer service for details.



19000 Series

Dual Wall Heat Shrinkable Tubing

Thermosleeve® Plus (Semi-Rigid)

Thermosleeve® Plus is a semi-rigid, 'dual wall' tubing, designed to meet automotive industry requirements for environmental sealing. As the tubing is heated, an inner wall of adhesive melts and flows to form an effective barrier against automotive fluids and moisture. This helps to protect the harness from the effects of corrosion and water wicking.

- Semi-rigid, flame-retardant polyolefin jacket
- Inner layer of specially formulated adhesive
- **High shrink ratio of 4:1**
- Extended temperature range of -40°C to 130°C (-40°F to 266°F)
- Markings for size
- UL 224 600V, 125°C
- RoHS Compliant



Clear tubing allows for easy inspection

Part Numbers by Color & Pack Size		Blister Card 6 in. Lengths		Poly Bag 6 in. Lengths			Poly Bag 4 ft. Lengths		
Size	Original Diam. (in.)	# Pcs.	Black	# Pcs.	Black	Clear	# Pcs.	Black	Clear
Assorted		3*	14000	7	15000	15010	n/a	n/a	n/a
#1	0.225	5	14001	14	15001	15011	25	54801	54811
#2	0.293	4	14002	12	15002	15012	25	54802	54812
#3	0.427	2	14003	10	15003	15013	20	54803	54813
#4	0.700	1	14004	5	15004	15014	15	54804	54814

*Includes #1, #2 and #3

Thermosleeve® DWP™ (Flexible)

Thermafex DWP™ is a flexible, 'dual wall' tubing, used for sealing and protecting mechanical and electrical systems (including splices, breakouts, and connector-to-cable transitions).

- Flexible, flame-retardant polyolefin jacket
- Available from 1/8" to 1" original diameter
- **High shrink ratio of 3:1**
- Adhesive lining
- Meets UL 224 600V, 125°C
- RoHS Compliant



Original Diam. (in.)	Poly Bag (12" Lengths)							Poly Bag (4 ft. Lengths)						
	# Pcs.	Black	Red	Blue	Yellow	White	Green	# Pcs.	Black	Red	Blue	Yellow	White	Green
1/8	8	31100	31120	31160	31140	31190	31150	50	31400	31420	31460	31440	31490	31450
3/16	8	31101	31121	31161	31141	31191	31151	50	31401	31421	31461	31441	31491	31451
1/4	8	31102	31122	31162	31142	31192	31152	25	31402	31422	31462	31442	31492	31452
3/8	8	31103	31123	31163	31143	31193	31153	25	31403	31423	31463	31443	31493	31453
1/2	8	31104	31124	31164	31144	31194	31154	25	31404	31424	31464	31444	31494	31454
3/4	4	31105	31125	31165	31145	31195	31155	25	31405	31425	31465	31445	31495	31455
1	4	31106	31126	31166	31146	31196	31156	15	31406	31426	31466	31446	31496	31456
1-1/2	4	31107	31127	-	-	-	-	5	31407	31427	-	-	-	-

Heavy Duty & Self-Sealing Heat Shrinkable Tubing



Thermosleeve® ST

- Provides excellent strain relief and abrasion protection
- **Shrink ratio as high as 3:1**
- Meltable lining provides protection underwater and underground (for without meltable lining, see Non-Adhesive below)
- Rated for up to 600 volts, 90°C (194°F) continuous
- RoHS Compliant

Available in various lengths as follows:

Diameter		For Cable Range AWG/MCM	8 in. Pcs.		12 in. Pcs.		4 ft. Pcs.				
Original in.	Final in.		Pcs. /Bag	Part Number	Pcs. /Bag	Part Number	Pcs. /Bag	Part Number			
				Black	Red	Black	Red	Black	Red		
0.40	0.15	#14 - #10	4	80604	70604	4	81004	71004	10	83804	73804
0.75	0.22	#8 - #1	4	80807	70807	4	81207	71207	10	84807	74807
1.10	0.38	#2 - #4/0	2	80811	70811	2	81211	71211	5	84811	74811
1.50	0.50	#2/0 - 500	2	80815		2	81215		2	84815	
2.0	0.75	#350 - 1000	2	80820		2	81220		2	84820	
3.0	1.25	#900 - 1500	2	80830		2	81320		2	84830	
4.0	1.75	#1500 - 2500	2	80840		2	81240		2	84840	

Thermosleeve® ST Non-Adhesive

Diameter in.	Length in.	# of Pcs.	Color	Part #
0.75	48	10	Black	84807NA
1.10	48	5	Black	84811NA
1.50	48	2	Black	84815NA

Thermosleeve® ST in popular sizes for automotive applications

Diameter in.	Length in.	# of Pcs.	Color	Part #
1.10	1.5	6	Black	15005
1.10	1.5	6	Red	15025
1.10	1.5	6	Black/Red	15085
1.10	6.0	2	Black	15605
1.10	6.0	2	Red	15625
0.75	6.0	4	Black	80607
0.75	6.0	4	Red	70607

General purpose sealant lining provides an environmental seal and will adhere to non-oily substances. The tubing can be removed where re-entry is necessary.



Custom Cut & Printed Thermosleeve®

Whether for identification or function, custom cut and printed Thermosleeve® is an effective and economical solution.

Sizing

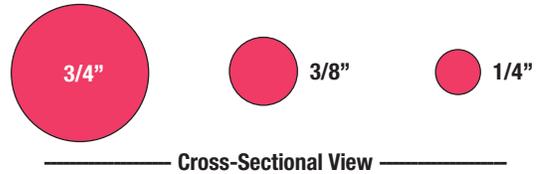
- Tubing is available in 2:1 or 3:1 shrink ratios
- Pieces are available in any length (priced per inch). Most common lengths are 1" to 2" (25 mm to 50 mm)
- Printing can be on one or both sides of the flattened tube. Flat tube 'height' in relation to round diameter is shown as per the following example and in the table below:

Example for 3/4" Tubing



Side view

(Original Diameter) (Full Recovery 2:1) (Full Recovery 3:1)



Cross-Sectional View

A Flat Height	B Original Diameter	C Full Recovery 2:1	D Full Recovery 3:1
9/32	1/8	1/16	N/A
12/32	3/16	3/32	N/A
7/16	1/4	1/8	1/12
9/16	3/8	3/16	1/8
7/8	1/2	1/4	1/6
1-1/4	3/4	3/8	1/4
1-11/16	1	1/2	1/3
2-3/8	1-1/2	3/4	1/2

Design

Determine elements required such as:

- Text/description
- Logos (email or supply disk with graphics in a .tif or .jpeg format)
- Any sequential numbering required (e.g., serial numbers)
- Submit a sample drawing using 'flat height' sizing
- Please allow an adequate margin on all sides of image

Other Considerations

- Available cut or not cut (i.e., rolled)
- Available in single or dual wall (black only)
- Heat Shrinkable Adhesive 'tape' available
- for extra durability and grip (see page 8)

Colors Available

Colors of tubing available:

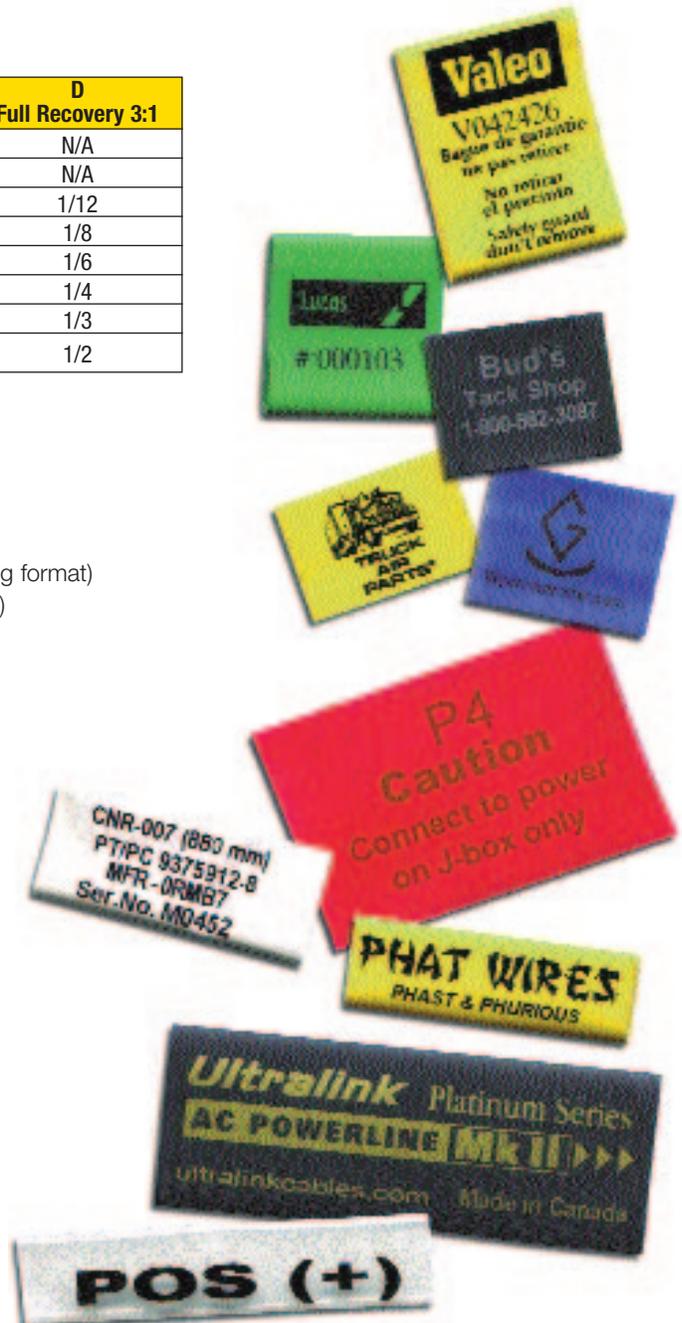
2:1 Shrink Ratio



3:1 Shrink Ratio



Colors of print available:



Other Specialty Heat Shrink Products and Tubing

Thermosleeve® 3 to 1 High Shrink Ratio Heat Shrinkable Tubing



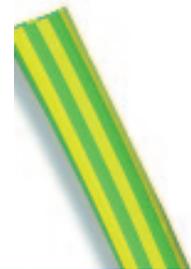
- Very flexible, highly flame retardant, low-shrink temperature polyolefin
- Shrink ratio of 3:1
- UL VW-1
- Standard colors are black and white (for other colors please contact customer service)
- RoHS Compliant



Original Diam.		Medium Spools Part Numbers		Bulk Spools Part Numbers		
in.	ft.	Black	White	ft.	Black	White
3/16	75	23001	23091	250	23901	23991
1/4	75	23002	23092	250	23902	23992
3/8	50	23003	23093	200	23903	23993
1/2	40	23004	23094	150	23904	23994
3/4	20	23005	23095	250	23905	23995
1	10	23006	23096	250	23906	23996
1-1/2*	8	23007	23097	98	23907	23997

*1-1/2" x 8' is poly bagged

Thermosleeve® Dual Color Flexible, Flame-Retardant, Dual Color Polyolefin Tubing



Used to identify 'ground' on wires and in cables, and to jacket and insulate light duty harnesses.

- UL rated for 600V, 125°C
- Shrink ratio of 2:1
- Dual colors (yellow/green) for instant identification
- Flame retardant
- Flexible to conform to irregular shapes
- Excellent physical, chemical and electrical properties that meet industry standards for highly reliable, general purpose tubing
- RoHS Compliant



Original Diam.	Medium Spools		Bulk Spools		
	in.	ft.	Yellow/Green	ft.	Yellow/Green
1/8		100	13451	450	19451
1/4		75	13452	225	19452
3/8		50	13453	150	19453
1/2		40	13454	150	19454
3/4		20	13455	150	19455
1		10	13456	75	19456

Thermosleeve® Adhesive Hot Melt Glue in Film Form

Ideal for use with non-adhesive lined heat shrink tubings in low temperature applications. Simply place underneath tubing, prior to heating, and material will melt and flow similar to pre-installed adhesive linings. Use with single wall tubing to get dual wall results.



Part #	Width in.	Length ft.
10175	1	5 strip
10170	1	50 roll

Thermosleeve® Solder Splice

Wire-to-Wire Splices

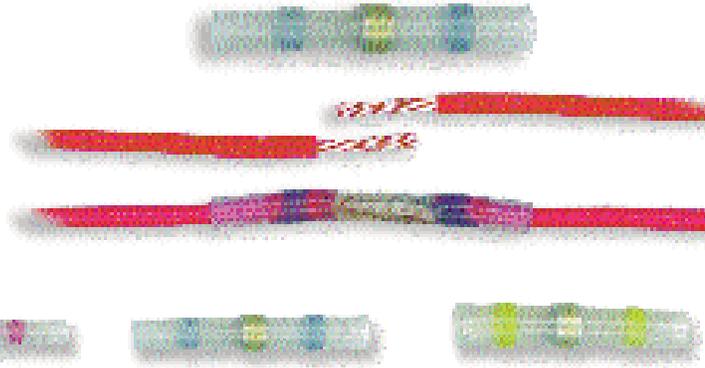
Features a fluxed solder preform within a heat shrinkable thermoplastic sleeve. This provides a completely soldered, strain-relieved, encapsulated connection. The one-piece, one-step design simplifies installation.



- Controlled soldering combined with shrink tubing in one step
- Strain relief
- Max operating temperatures to 125°C (257°F)
- Color-coded sealing rings
- Transparent sleeves easy to inspect

Triple action:

- Sleeve shrinks
- Center ring of solder melts to connect
- Outer rings of color-coded plastic seal



Wire Gauge 24-22		Wire Gauge 22-18		Wire Gauge 16-14		Wire Gauge 12-10	
Convenience Packs		Convenience Packs		Convenience Packs		Convenience Packs	
Pcs./Pack	Part Number						
18	26003	18	26004	18	26005	12	26006
100	26103	100	26104	100	26105	50	26106
Bulk Pack		Bulk Pack		Bulk Pack		Bulk Pack	
Pcs./Pack	Part Number						
1000	26903	1000	26904	1000	26905	500	26806

Thermosleeve® Crimp

Heat Shrinkable and adhesive-lined, insulate and protect electrical connections from mechanical abuse, wire pull-out, and abrasion while resisting water, salt and other contaminants.

- Rugged, heat shrinkable nylon
- Hot melt adhesive lining
- Transparent for easy installation
- Extended temperature range of -55°C to 125°C
- Color-coded for AWG 22 to 10
- High strength crimp barrels



Butt Splice Assorted		Terminals Assorted	
Convenience Packs		Convenience Packs	
Pcs./Pack	Part Number	Pcs./Pack	Part Number
18	16001	18	16002

Butt Splices



Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16004
100	16104
Bulk Pack	
Pcs./Pack	Part Number
1000	16904



Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16005
100	16105
Bulk Pack	
Pcs./Pack	Part Number
1000	16905



Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16006
50	16106
Bulk Pack	
Pcs./Pack	Part Number
500	16806

Thermosleeve® Crimp

Part Numbers and Pack Sizes for Standard Shapes

Ring Terminal



#8 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16023
100	16123
Bulk Pack	
Pcs./Pack	Part Number
1000	16923



#10 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16007
100	16107
Bulk Pack	
Pcs./Pack	Part Number
1000	16907



1/4 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16025
100	16125
Bulk Pack	
Pcs./Pack	Part Number
1000	16925



5/16 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16030
75	16130
Bulk Pack	
Pcs./Pack	Part Number
1000	16930



3/8 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16027
75	16127
Bulk Pack	
Pcs./Pack	Part Number
1000	16927



#8 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16024
100	16124
Bulk Pack	
Pcs./Pack	Part Number
1000	16924



#10 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16009
100	16109
Bulk Pack	
Pcs./Pack	Part Number
1000	16909



1/4 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16026
100	16126
Bulk Pack	
Pcs./Pack	Part Number
1000	16926



5/16 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16017
75	16117
Bulk Pack	
Pcs./Pack	Part Number
1000	16917



3/8 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16021
75	16121
Bulk Pack	
Pcs./Pack	Part Number
1000	16921



#8 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16020
50	16120
Bulk Pack	
Pcs./Pack	Part Number
500	16820



#10 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16019
50	16119
Bulk Pack	
Pcs./Pack	Part Number
500	16819



1/4 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16011
50	16111
Bulk Pack	
Pcs./Pack	Part Number
500	16811



5/16 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16018
50	16118
Bulk Pack	
Pcs./Pack	Part Number
500	16818



3/8 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16022
50	16122
Bulk Pack	
Pcs./Pack	Part Number
500	16822

Spade Terminal



#8 Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16008
100	16108
Bulk Pack	
Pcs./Pack	Part Number
1000	16908



#10 Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16010
100	16110
Bulk Pack	
Pcs./Pack	Part Number
1000	16910



#10 Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16012
50	16112
Bulk Pack	
Pcs./Pack	Part Number
500	16812

Bullet Terminal



Male Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16028
75	16128
Bulk Pack	
Pcs./Pack	Part Number
1000	16928



Female Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16029
75	16129
Bulk Pack	
Pcs./Pack	Part Number
1000	16929

Quick Disconnect



Female Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16013
75	16113
Bulk Pack	
Pcs./Pack	Part Number
1000	16913



Female Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16014
75	16114
Bulk Pack	
Pcs./Pack	Part Number
1000	16914



Female Wire Gauge 12-10	
Convenience Packs	
Pcs./Pack	Part Number
12	16031
50	16131
Bulk Pack	
Pcs./Pack	Part Number
500	16831



Male Wire Gauge 22-18	
Convenience Packs	
Pcs./Pack	Part Number
18	16015
100	16115
Bulk Pack	
Pcs./Pack	Part Number
1000	16915



Male Wire Gauge 16-14	
Convenience Packs	
Pcs./Pack	Part Number
18	16016
100	16116
Bulk Pack	
Pcs./Pack	Part Number
1000	16916

Installation Tip

Use of reflector tip attachment will improve the installation of heat shrink terminals. See page 15 for a selection of heating tools and accessories.



Thermosleeve® Heat Shrink Assortments



**Assortment
#10002**

Thermosleeve® 1/8" black (30 pcs) refill with 12500	Thermosleeve® 1/8" red (30 pcs) refill with 12520	Thermosleeve® 3/16" black (25 pcs) refill with 12501	Thermosleeve® 3/16" red (25 pcs) refill with 12521	Thermosleeve® 1/4" black (20 pcs) refill with 12402	Thermosleeve® 1/4" red (20 pcs) refill with 12422
Thermosleeve® 3/8" black (8 pcs) refill with part 12503		Thermosleeve® 1/2" black (5 pcs) refill with part 12504		Thermosleeve® 3/4" black (4 pcs) refill with part 12505	
Thermosleeve® ST Heavy Wall Tubing (Adhesive lined) 1.1" diam x 1-1/2" long (4 pcs) refill item 15085 (red & black, 3 pcs each) (also available 6" long pcs, 15005 black and 15025 red)			Thermosleeve® Plus Adhesive-lined Tubing No. 1-1/4" 4 pc (refill #15001) No. 2-3/8" 3 pc (refill #15002) No. 3-1/2" 2 pc (refill #15003) No. 4-3/4" 1 pc (refill #15004)		
8" Nylon Cable Ties-40 pcs refill with part #17005 (Natural White) refill with part #17006 (UV Resistant Black) (100 pcs/bag)			Thermosleeve® Crimp 18 Assorted Terminals refill #16002	Thermosleeve® Crimp 18 Assorted Splices refill #16001	



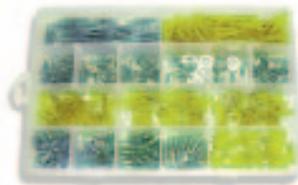
**Assortment
#10003**

Thermosleeve® 1/8" red (30 pcs) refill with #12520	Thermosleeve® 1/8" black (30 pcs) refill with #12500	Thermosleeve® 3/16" red (25 pcs) refill with #12521	Thermosleeve® 3/16" black (25 pcs) refill with #12501	Thermosleeve® 1/4" black (20 pcs) refill with #12502	
Thermosleeve® 1/4" red (20 pcs) refill with part # 12522		Thermosleeve® 3/8" black (8 pcs) refill with part #12503		Thermosleeve® 3/8" red (8 pcs) refill with part #12523	
Thermosleeve® Plus Adhesive-lined Tubing No. 1 - 1/4" diam 14 pc (refill #15001)			Thermosleeve® Plus Adhesive-lined Tubing No. 2 - 3/8" diam 12 pc (refill #15002)		
Thermosleeve® Crimp 18 Butt Splice 14-16 AWG refill#16005	Thermosleeve® Crimp 12 Butt Splice 10-12 AWG refill#16006	Thermosleeve® Crimp 18 Female QDC Terminal refill#16014	Thermosleeve® Crimp 18 Male QDC Terminal refill#16016	Thermosleeve® Crimp 18 Ring #10 Terminal refill#16009	Thermosleeve® Crimp 12 Ring #1/4 Terminal refill#16011



Thermosleeve® and Thermosleeve® Plus Assortment #10004

Thermosleeve® Plus 12 pc, No.1 (1/4" original diam.) Refill #15001 (14pcs)	Thermosleeve® Plus 8 pc, No.2 (3/8" original diam.) Refill #15002 (12pcs)	Thermosleeve® Plus 5 pc, No. 3 (1/2" original diam.) Refill #15003 (10pcs)	Thermosleeve® 12 pc (1/8" original diam.) Refill #11009 (6pcs)	Thermosleeve® 12 pc (3/16" original diam.) Refill #11015 (6pcs)	Thermosleeve® 12 pc (1/4" original diam.) Refill #11014 (6pcs)
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Thermosleeve® Crimp Assortment #10005

Thermosleeve® Crimp Butt Splice 16-14 AWG (Blue) 50 pcs Refill #16105 (100 pcs)			Thermosleeve® Crimp Butt Splice 12-10 AWG (Yellow) 50 pcs Refill #16106 (50 pcs)		
Thermosleeve® Crimp Ring #10 16-14 AWG (Blue) 25 pcs Refill #16009 (18 pcs)	Thermosleeve® Crimp Ring #1/4 16-14 AWG (Blue) 25 pcs Refill #16026 (18 pcs)	Thermosleeve® Crimp Ring #5/16 16-14 AWG (Blue) 25 pcs Refill #16017 (18 pcs)	Thermosleeve® Crimp Ring #3/8 16-14 AWG (Blue) 25 pcs Refill #16021 (18 pcs)	Thermosleeve® Crimp Spade #10 16-14 AWG (Blue) 25 pcs Refill #16010 (18 pcs)	
Thermosleeve® Crimp Ring #1/4 12-10 AWG (Yellow) 25 pcs Refill #16011 (12 pcs)		Thermosleeve® Crimp Ring #5/16 12-10 AWG (Yellow) 25 pcs Refill #16018 (12 pcs)		Thermosleeve® Crimp Ring #3/8 12-10 AWG (Yellow) 25 pcs Refill #16022 (12 pcs)	
Thermosleeve® Crimp Ring #10 16-14 AWG (Blue) 25 pcs Refill #16009 (18 pcs)	Thermosleeve® Crimp Ring #1/4 16-14 AWG (Blue) 25 pcs Refill #16026 (18 pcs)	Thermosleeve® Crimp Ring #5/16 16-14 AWG (Blue) 25 pcs Refill #16017 (18 pcs)	Thermosleeve® Crimp Ring #3/8 16-14 AWG (Blue) 25 pcs Refill #16021 (18 pcs)	Thermosleeve® Crimp Spade #10 12-10 AWG (Yellow) 25 pcs Refill #16012 (12 pcs)	



Thermosleeve® Plus Assortment #10009

14 pcs No.1 (1/4" original diam.) Refill #15001 (14pcs)	14 pcs No.1 (1/4" original diam.) Refill #15001 (14pcs)	12 pcs No. 2 (3/8" original diam.) Refill #15002 (12pcs)	12 pcs No. 2 (3/8" original diam.) Refill #15002 (12pcs)	5 pcs No. 3 (1/2" original diam.) Refill #15003 (10pcs)	5 pcs No. 3 (1/2" original diam.) Refill #15003 (10pcs)
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Thermosleeve® Plus Assortment #10010

14 pcs No.1 (1/4" original diam.) Refill #15001 (14pcs)	14 pcs No.1 (1/4" original diam.) Refill #15001 (14pcs)	12 pcs No. 2 (3/8" original diam.) Refill #15002 (12pcs)	12 pcs No. 2 (3/8" original diam.) Refill #15002 (12pcs)	8 pcs No. 3 (1/2" original diam.) Refill #15003 (10pcs)	3 pcs No. 4 (1/2" original diam.) Refill #15004 (5pcs)
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Heat Shrink Assortments



Thermosleeve® Crimp Assortment #10007

Thermosleeve® Crimp Butt Splice 18-22 AWG (Red) #16004 12 pcs	Thermosleeve® Crimp Butt Splice 16-14 AWG (Blue) #16005 12 pcs	Thermosleeve® Crimp Butt Splice 12-10 AWG (Yellow) #16006 12 pcs	Thermosleeve® Crimp Ring #8 18-22 AWG (Red) #16023 12 pcs	Thermosleeve® Crimp Ring #10 18-22 AWG (Red) #16007 12 pcs	Thermosleeve® Crimp Ring #10 18-22 AWG (Red) #16007 12 pcs
Thermosleeve® Crimp Ring #5/16 18-22 AWG (Red) #16030 12 pcs	Thermosleeve® Crimp Spade #8 18-22 AWG (Red) #16008 12 pcs	Thermosleeve® Crimp Male Quick Disconnect (Red) #16015 12 pcs	Thermosleeve® Crimp Female Quick Disconnect (Red) #16013 12 pcs	Thermosleeve® Crimp Ring #8 12-10 AWG (Yellow) #16020 12 pcs	Thermosleeve® Crimp Ring #8 12-10 AWG (Yellow) #16020 12 pcs
Thermosleeve® Crimp Ring #1/4 12-10 AWG (Yellow) #16011 12 pcs	Thermosleeve® Crimp Ring #5/16 12-10 AWG (Yellow) #16018 12 pcs	Thermosleeve® Crimp Spade #10 12-10 AWG (Yellow) #16012 12 pcs	Thermosleeve® Crimp Ring #8 16-14 AWG (Blue) #16024 12 pcs	Thermosleeve® Crimp Ring #10 16-14 AWG (Blue) #16009 12 pcs	Thermosleeve® Crimp Ring #10 16-14 AWG (Blue) #16009 12 pcs
Thermosleeve® Crimp Ring #5/16 (Blue) 16-14 AWG #16017 12 pcs	Thermosleeve® Crimp Spade #10 (Blue) 16-14 AWG #16010 12 pcs	Thermosleeve® Crimp Female Bullet (Blue) 16-14 AWG #16029 12 pcs	Thermosleeve® Crimp Male Bullet (Blue) 16-14 AWG #16028 12 pcs	Thermosleeve® Crimp Female Quick Disconnect (Blue) #16014 12 pcs	Thermosleeve® Crimp Female Quick Disconnect (Blue) #16014 12 pcs



Assortment #10008

Thermosleeve® Plus 12 pcs No. 1 (1/4" original diam.) Refill #15001	Thermosleeve® Plus 8 pcs No. 2 (3/8" original diam.) Refill #15002	Thermosleeve® Crimp Butt Splice 18-22 AWG 12 pc Refill #16004	Thermosleeve® Crimp Ring #5/16 (6pcs) 16-14 AWG Refill #16017
		Thermosleeve® Crimp Butt Splice 16-14 AWG 16 pc Refill #16005	Thermosleeve® Crimp Ring #10 (6pcs) 12-10 AWG Refill #16019
Thermosleeve® Plus 5 pcs No. 3 (1/2" original diam.) Refill #15003	Thermosleeve® Plus 2 pcs No. 4 (3/4" original diam.) Refill #15004	Thermosleeve® Crimp Butt Splice 12-10 AWG 8 pc Refill #16006	Thermosleeve® Crimp Male QDC (8pcs) AWG 16-14 Refill #16016
			Thermosleeve® Crimp Fem. QDC (8pcs) AWG 16-14 Refill #16014
			Thermosleeve® Crimp Ring #5/16 (4pcs) 12-10 AWG Refill #16018
			Thermosleeve® Crimp Ring #10 (8pcs) 16-14 AWG Refill #16009

Heating Tools

TFX-3000 Two Stage General Purpose Hot Air Gun



**Includes a
Free Reflector Tip
for TFX-3000
Part #REF-35**

- Rugged molded construction
- 400°C/590°C (750°F/1100°F), 1200 watts
- Shaped to free-stand on end

TFX-2050 Butane Micro Torch

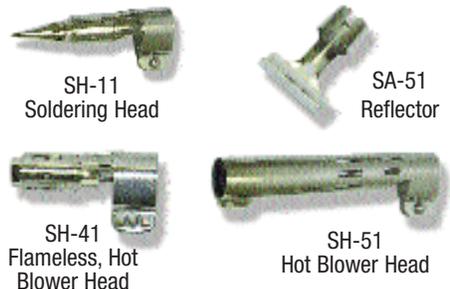


- Electronic instant ignition system
- Adjustable flame
- Efficient, hand-held, free standing design
- Refillable butane fuel tank
- Optional flameless soldering head
- Optional hot blower and reflector (ideal for use with Thermosleeve® products)

Specifications:

- Dimensions: 155 mm x 90 mm x 35 mm (height x width x grip diameter)
- Max. temp.: 1300°C (2370°F)
- Working time: Approximately 90 minutes

Butane Torch (optional) Accessory Tips



Available separately
or in the 3-piece **SH3 Kit**
(SH-11, SA-51 and SH-51)

General Installation Instructions for Thermosleeve® Heat Shrink Products



Always select the largest size of tubing that will still fit snugly after shrinking, according to the shrink ratio of the product being used. For example, for a 2:1 product, select approximately twice the diameter. Cut the tubing to the exact length required (i.e., no shrinkage in length) with a clean, square cut to avoid splitting.

Position tubing over the object and heat evenly until the tubing shrinks into place or will shrink no further. Products containing pre-installed adhesive may need extra heat to melt and flow the adhesive for proper application. Keep the heat source or product moving so the heat is not concentrated in one spot.

Keep the heat source at least one inch away from the tubing, using a low-intensity heat source such as a hot air gun, oven, infrared heat source, or soft (yellow) flame.

Primary Terminals & Connectors

- Pure electrolytic copper with electro-tin plating for corrosion resistance
- Deep internal serrations promote firm wire grip for maximum strength
- Insulation (where applicable) is color coded to NEMA standards and flared for easy insertion of stranded and solid wire



Which Terminal/Connector to Choose?

Non-Insulated, PVC Insulated, Nylon Insulated or High Temperature

<p>NON-INSULATED terminals are used where there is no worry about 'grounding' or 'shorting out' against other wires or metal frames, or with heat shrink tubing to cover the connection after seeing that it has been made properly.</p>	<p>PVC insulated terminals are manufactured using a two-part construction; an inner lug covered with a friction fit PVC sleeve. Generally speaking a single crimp is sufficient to make a proper connection.</p>	<p>NYLON insulated terminals are manufactured using a three-part construction: an inner lug, a copper sleeve, and an outer Nylon coating. The copper sleeve acts as a 'funnel' to direct the wire properly into the lug. Generally a dual crimp is utilized—one which crimps the inner lug, one which crimps the sleeve. This connection is regarded as a better design as it gives strain relief at the connection and subsequently less fatigue.</p>
	<p>HIGH TEMPERATURE terminals are nickel plated and excellent for high-heat applications, able to withstand temperatures of up to 900°F (482°C).</p>	<p>Both NYLON and PVC connections are rated at 90°C to 105°C and can be used in auto applications (12V) or AC (110V). The actual rating of each is up to 600V. Both NYLON and PVC offer excellent protection from surrounding metal or wire contact to prevent 'shorting out' situations.</p>

Non-Insulated Terminals

Non-Insulated Ring Terminals



#10	Wire Gauge	22-18	1/4"	Wire Gauge	22-18
Pcs/pack	Part Number		Pcs/pack	Part Number	
25	75209		15	75211	
100	77209		70	77211	
1000	87209		1000	87211	



#6	Wire Gauge	22-18	#8	Wire Gauge	22-18	#10	Wire Gauge	16-14	#6	Wire Gauge	16-14
Pcs/pack	Part Number										
25	75213		25	75215		25	75217		25	75219	
100	77213		100	77215		100	77217		100	77219	
1000	87213		1000	87215		1000	87217		1000	87219	



#8	Wire Gauge	16-14	#10	Wire Gauge	12-10	#6	Wire Gauge	12-10	#8	Wire Gauge	12-10
Pcs/pack	Part Number										
25	75221		15	75223		15	75225		15	75227	
100	77221		70	77223		70	77225		70	77227	
1000	87221		1000	87223		1000	87225		1000	87227	

Non-Insulated Spade Terminals



#10	Wire Gauge	22-18	#6	Wire Gauge	22-18	#6 S	Wire Gauge	22-18
Pcs/pack	Part Number		Pcs/pack	Part Number		Pcs/pack	Part Number	
25	75113		25	75115		25	75117	
100	77113		100	77115		100	77117	
1000	87113		1000	87115		1000	87117	

Non-Insulated Spade Terminals

continued



#6 S Wire Gauge 16-14	
Pcs/pack	Part Number
25	75125
100	77125
1000	87125



#8 Wire Gauge 22-18	
Pcs/pack	Part Number
25	75119
100	77119
1000	87119



#10 Wire Gauge 16-14	
Pcs/pack	Part Number
25	75121
100	77121
1000	87121



#6 Wire Gauge 16-14	
Pcs/pack	Part Number
25	75123
100	77123
1000	87123



#8 Wire Gauge 16-14	
Pcs/pack	Part Number
25	75127
100	77127
1000	87127



#10 Wire Gauge 12-10	
Pcs/pack	Part Number
15	75129
70	77129
1000	87129

Non-Insulated Male Disconnects



1/4" Wire Gauge 22-18	
Pcs/pack	Part Number
25	75481
100	77481
1000	87481



1/4" Wire Gauge 16-14	
Pcs/pack	Part Number
25	75483
100	77483
1000	87483



1/4" Wire Gauge 12-10	
Pcs/pack	Part Number
25	75485
90	77485
1000	87485

Non-Insulated Female Disconnects



1/4" Wire Gauge 22-18	
Pcs/pack	Part Number
20	75177
80	77177
1000	87177



1/4" Wire Gauge 16-14	
Pcs/pack	Part Number
20	75179
80	77179
1000	87179



1/4" Wire Gauge 12-10	
Pcs/pack	Part Number
15	75181
70	77181
1000	87181

Non-Insulated Flag Terminals



1/4" Wire Gauge 22-18	
Pcs/pack	Part Number
15	75171
70	77171
1000	87171



1/4" Wire Gauge 16-14	
Pcs/pack	Part Number
15	75173
70	77173
1000	87173



1/4" Wire Gauge 12-10	
Pcs/pack	Part Number
8	75175
35	77175
1000	87175

Non-Insulated Butt Splice Connectors



Wire Gauge 22-18	
Pcs/pack	Part Number
25	75107
100	77107
1000	87107



Wire Gauge 16-14	
Pcs/pack	Part Number
25	75109
100	77109
1000	87109



Wire Gauge 12-10	
Pcs/pack	Part Number
15	75111
70	77111
1000	87111

Non-Insulated Seamless Butt Splice Connectors



Wire Gauge 22-18	
Pcs/pack	Part Number
25	75461
100	77461
1000	87461



Wire Gauge 16-14	
Pcs/pack	Part Number
25	75463
100	77463
1000	87463



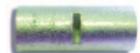
Wire Gauge 12-10	
Pcs/pack	Part Number
15	75465
50	77465
1000	87465



Wire Gauge 8	
Pcs/pack	Part Number
5	75462
15	77462
500	87462



Wire Gauge 6	
Pcs/pack	Part Number
5	75464
10	77464
500	87464



Wire Gauge 4	
Pcs/pack	Part Number
3	75466
10	77466
500	87466

PVC Terminals

PVC Ring Terminals



3/8"	Wire Gauge	22-18
Pcs/pack	Part Number	
15	75233	
70	77233	
1000	87233	



5/16"	Wire Gauge	22-18
Pcs/pack	Part Number	
15	75235	
70	77235	
1000	87235	



#10	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75229	
100	77229	
1000	87229	



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
15	75231	
70	77231	
1000	87231	



#10	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75241	
100	77241	
1000	87241	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
15	75243	
70	77243	
1000	87243	



3/8"	Wire Gauge	16-14
Pcs/pack	Part Number	
15	75245	
70	77245	
1000	87245	



5/16"	Wire Gauge	16-14
Pcs/pack	Part Number	
15	75247	
70	77247	
1000	87247	



#6	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75249	
100	77249	
1000	87249	



#8	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75251	
100	77251	
1000	87251	



#10	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75253	
80	77253	
1000	87253	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75255	
70	77255	
1000	87255	



3/8"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75257	
70	77257	
1000	87257	



1/2"	Wire Gauge	12-10
Pcs/pack	Part Number	
10	75264	
25	77264	
1000	87264	



#6	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75261	
80	77261	
1000	87261	



#8	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75263	
80	77263	
1000	87263	

PVC Spade Terminals



#8	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75137	
100	77137	
1000	87137	



#10	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75131	
100	77131	
1000	87131	



#6	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75133	
100	77133	
1000	87133	



#6 S	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75135	
100	77135	
1000	87135	



#10	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75139	
100	77139	
1000	87139	



#6	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75141	
100	77141	
1000	87141	



#6 S	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75143	
100	77143	
1000	87143	

PVC Spade Terminal continued



#8	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75145	
100	77145	
1000	87145	



#10	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75147	
70	77147	
1000	87147	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75149	
70	77149	
1000	87149	



#6	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75151	
70	77151	
1000	87151	



#8	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75153	
70	77153	
1000	87153	

PVC Piggy Back Connectors



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
15	75274	
70	77274	
1000	87274	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
15	75275	
70	77275	
1000	87275	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75268	
80	77268	
1000	87268	

PVC Tap Splice Connectors



Wire Gauge	22-18
Pcs/pack	Part Number
12	75269
55	77269
500	87269



Wire Gauge	16-14
Pcs/pack	Part Number
12	75271
55	77271
500	87271



Wire Gauge	12-10
Pcs/pack	Part Number
8	75273
25	77273
200	87273



Wire Gauge	18-10
Pcs/pack	Part Number
5	75272
15	77272
500	87272

PVC Tap Connector Moisture Resistant Gel Filled



Wire Gauge	18-16
Pcs/pack	Part Number
4	75270
25	77270
500	87270

PVC Snap Plugs



.156	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75265	
100	77265	
1000	87265	



.156	Wire Gauge	16-14
Pcs/pack	Part Number	
15	75266	
50	77266	
1000	87266	



.156	Wire Gauge	16-14
Pcs/pack	Part Number	
20	75267	
100	77267	
1000	87267	

PVC Male Disconnects



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75201	
100	77201	
1000	87201	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75205	
100	77205	
1000	87205	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75207	
80	77207	
1000	87207	

PVC Female Disconnects



.110	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75183	
80	77183	
1000	87183	



3/16"	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75185	
80	77185	
1000	87185	



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75187	
80	77187	
1000	87187	



.110 Wire Gauge 16-14	
Pcs/pack	Part Number
20	75189
80	77189
1000	87189



3/16" Wire Gauge 16-14	
Pcs/pack	Part Number
20	75191
80	77191
1000	87191



1/4" Wire Gauge 16-14	
Pcs/pack	Part Number
20	75193
80	77193
1000	87193



1/4" Wire Gauge 12-10	
Pcs/pack	Part Number
25	75195
100	77195
1000	87195

PVC Butt Splice Connectors



Wire Gauge 22-18	
Pcs/pack	Part Number
25	75101
100	77101
1000	87101



Wire Gauge 16-14	
Pcs/pack	Part Number
25	75103
100	77103
1000	87103



Wire Gauge 12-10	
Pcs/pack	Part Number
15	75105
70	77105
1000	87105



Wire Gauge 6	
Pcs/pack	Part Number
3	75104
10	77104
500	87104



Wire Gauge 4	
Pcs/pack	Part Number
2	75102
8	77102
500	87102

Nylon Terminals

Nylon Closed End Connectors



Wire Gauge 16-10	
Pcs/pack	Part Number
15	75277
70	77277
1000	87277



Wire Gauge 22-14	
Pcs/pack	Part Number
25	75276
100	77276
1000	87276



Wire Gauge 8	
Pcs/pack	Part Number
10	75278
50	77278
1000	87278

Nylon Ring Terminals



#6 Wire Gauge 22-18	
Pcs/pack	Part Number
35	75420
100	77420
1000	87420



#10 Wire Gauge 22-18	
Pcs/pack	Part Number
35	75421
100	77421
1000	87421



1/4" Wire Gauge 22-18	
Pcs/pack	Part Number
35	75422
100	77422
1000	87422



3/8" Wire Gauge 22-18	
Pcs/pack	Part Number
20	75423
60	77423
1000	87423



#6 Wire Gauge 16-14	
Pcs/pack	Part Number
25	75410
100	77410
1000	87410



#10 Wire Gauge 16-14	
Pcs/pack	Part Number
25	75411
100	77411
1000	87411



1/4" Wire Gauge 16-14	
Pcs/pack	Part Number
20	75413
75	77413
1000	87413



3/8" Wire Gauge 16-14	
Pcs/pack	Part Number
15	75415
65	77415
1000	87415



#10 Wire Gauge 12-10	
Pcs/pack	Part Number
20	75412
70	77412
1000	87412



1/4" Wire Gauge 12-10	
Pcs/pack	Part Number
15	75414
65	77414
1000	87414



3/8" Wire Gauge 12-10	
Pcs/pack	Part Number
15	75416
65	77416
1000	87416



1/2" Wire Gauge 12-10	
Pcs/pack	Part Number
15	75417
50	77417
1000	87417

Nylon Heavy Duty Ring Terminal



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75441	
60	77441	
1000	87441	



3/8"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75443	
60	77443	
1000	87443	

Nylon Spade Terminal



#10	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75418	
100	77418	
1000	87418	



#10	Wire Gauge	12-10
Pcs/pack	Part Number	
20	75419	
75	77419	
1000	87419	

Nylon Fully Insulated Male Disconnects



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75451	
60	77451	
1000	87451	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
20	75491	
80	77491	
1000	87491	



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75493	
80	77493	
1000	87493	



.187"	Wire Gauge	22-18
Pcs/pack	Part Number	
25	75492	
75	77492	
1000	87492	



.187"	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75494	
75	77494	
1000	87494	

Nylon Fully Insulated Female Disconnects



3/16"	Wire Gauge	22-18
Pcs/pack	Part Number	
8	75155	
35	77155	
1000	87155	



3/16"	Wire Gauge	16-14
Pcs/pack	Part Number	
8	75159	
35	77159	
1000	87159	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
15	75453	
60	77453	
1000	87453	



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75487	
80	77487	
1000	87487	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
20	75489	
80	77489	
1000	87489	

Nylon Disconnects



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
25	75401	
100	77401	
1000	87401	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
40	75490	
100	77490	
1000	87490	

Nylon Flag Terminals



1/4"	Wire Gauge	22-18
Pcs/pack	Part Number	
20	75471	
70	77471	
1000	87471	



1/4"	Wire Gauge	16-14
Pcs/pack	Part Number	
10	75473	
50	77473	
1000	87473	



1/4"	Wire Gauge	12-10
Pcs/pack	Part Number	
4	75475	
17	77475	
1000	87475	

Nylon Butt Splice Connectors



Wire Gauge 22-18

Pcs/pack	Part Number
25	75425
100	77425
1000	87425



Wire Gauge 16-14

Pcs/pack	Part Number
25	75427
100	77427
1000	87427



Wire Gauge 12-10

Pcs/pack	Part Number
20	75429
75	77429
1000	87429

Nylon 3 Way Splice



1/4" Wire Gauge 16-14

Pcs/pack	Part Number
5	75435
20	77435
1000	87435

Non-Insulated High Temp Butt Splice Connectors



Wire Gauge 22-18

Pcs/pack	Part Number
100	77301
1000	87301



Wire Gauge 16-14

Pcs/pack	Part Number
100	77303
1000	87303



Wire Gauge 12-10

Pcs/pack	Part Number
100	77305
1000	87305

Non-Insulated High Temp Spade Connectors



#10	Wire Gauge 22-18
Pcs/pack	Part Number
100	77307
1000	87307



#10	Wire Gauge 16-14
Pcs/pack	Part Number
100	77309
1000	87309



#10	Wire Gauge 12-10
Pcs/pack	Part Number
100	77311
1000	87311

Non-Insulated High Temp Ring Connectors



#10	Wire Gauge 22-18
Pcs/pack	Part Number
100	77313
1000	87313



1/4"	Wire Gauge 22-18
Pcs/pack	Part Number
100	77314
1000	87314



#6	Wire Gauge 22-18
Pcs/pack	Part Number
100	77315
1000	87315



#8	Wire Gauge 22-18
Pcs/pack	Part Number
100	77316
1000	87316



#10	Wire Gauge 16-14
Pcs/pack	Part Number
100	77317
1000	87317



1/4"	Wire Gauge 16-14
Pcs/pack	Part Number
100	77318
1000	87318



#6	Wire Gauge 16-14
Pcs/pack	Part Number
100	77319
1000	87319



#8	Wire Gauge 16-14
Pcs/pack	Part Number
100	77321
1000	87321



1/4"	Wire Gauge 12-10
Pcs/pack	Part Number
100	77323
1000	87323



#10	Wire Gauge 12-10
Pcs/pack	Part Number
100	77325
1000	87325



3/8"	Wire Gauge 12-10
Pcs/pack	Part Number
100	77327
1000	87327

Non-Insulated High Temp Ring Connectors

continued



5/16"	Wire Gauge	12-10	#6	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77329		100	77331	
1000	87329		1000	87331	



#6	Wire Gauge	12-10	#8	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77331		100	77333	
1000	87331		1000	87333	



#8	Wire Gauge	12-10	#8	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77333		100	77333	
1000	87333		1000	87333	

Non-Insulated High Temp Female Disconnects



1/4"	Wire Gauge	22-18	1/4"	Wire Gauge	16-14
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77335		100	77337	
1000	87335		1000	87337	



1/4"	Wire Gauge	16-14	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77337		100	77339	
1000	87337		1000	87339	



1/4"	Wire Gauge	12-10	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77339		100	77339	
1000	87339		1000	87339	

Non-Insulated High Temp Male Disconnects



1/4"	Wire Gauge	16-14	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77343		100	77345	
1000	87343		1000	87345	



1/4"	Wire Gauge	12-10	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77345		100	77345	
1000	87345		1000	87345	

Non-Insulated High Temp Flag Terminals



1/4"	Wire Gauge	22-18	1/4"	Wire Gauge	16-14
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77347		100	77349	
1000	87347		1000	87349	



1/4"	Wire Gauge	16-14	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77349		100	77351	
1000	87349		1000	87351	



1/4"	Wire Gauge	12-10	1/4"	Wire Gauge	12-10
Pcs/pack	Part Number		Pcs/pack	Part Number	
100	77351		100	77351	
1000	87351		1000	87351	

Color Coded Wire Nuts



Min: 2 #18 Ga.	Max: 2 #14 Ga.	Min: 2 #14 Ga.	Max: 3 #12 Ga.	Min: 2 #14 Ga.	Max: 3 #10 & #12 Ga.
Pcs/pack	Part Number	Pcs/pack	Part Number	Pcs/pack	Part Number
25	18220	25	18320	25	18420
100	18250	100	18350	100	18450
500	18290	500	18390	500	18490



Min: 2 #14 Ga.	Max: 3 #12 Ga.	Min: 2 #14 Ga.	Max: 3 #10 & #12 Ga.
Pcs/pack	Part Number	Pcs/pack	Part Number
25	18320	25	18420
100	18350	100	18450
500	18390	500	18490

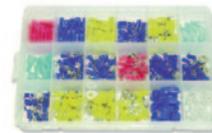


Min: 2 #14 Ga.	Max: 3 #10 & #12 Ga.
Pcs/pack	Part Number
25	18420
100	18450
500	18490



Min: 2 #22 Ga.	Max: 3 #16 Ga.
Pcs/pack	Part Number
25	18120
100	18150
1000	18190

Terminal Assortment



Terminal Assortment in a Plastic Storage Box Part #10077

Comes complete with 332 terminals in 18 of the most popular styles. Each part number is indexed on the reference chart for ease of identification and quick re-order.

Part #	Qty.	Part #	Qty.	Part #	Qty.
75101	25	75491	10	75245	15
75103	25	75193	25	75253	20
75105	15	75205	25	75255	15
75139	25	75229	25	75257	15
75147	15	75241	25	75271	12
75489	10	75243	15	75277	15

OLYMPUS™ Nylon Cable Ties

Material Specifications

Material	Standard Colors	Continuous Max.	Operating Temp. Min.	UL Flame Rating	UV Resistance	Agency Approvals
Nylon 6/6 - General purpose	(Natural) white	185°F 85°C	-40°F -40°C	94V-2	Poor	UL 62275
Nylon 6/6 - UV stabilized	Black	185°F 85°C	-40°F -40°C	94V-2	Very good	

Light Duty Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number	
					100	1000
4.0	0.10	5/8	18	Natural	17001	17901
4.0	0.10	5/8	18	Black	17002	17902
8.0	0.10	2.00	18	Natural	17015	17915
8.0	0.10	2.00	18	Black	17016	17916



Standard Duty Ties

Approx. Length (in.)	Approx. Width (in.)	Max. Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number	
					100	1000
6.0	0.13	1.25	30	Natural	17003	17903
6.0	0.13	1.25	30	Black	17004	17904
8.0	0.18	1.75	50	Natural	17005	17905
8.0	0.18	1.75	50	Black	17006	17906
11.2	0.18	3.00	50	Natural	17007	17807
11.2	0.18	3.00	50	Black	17008	17808
14.5	0.18	4.00	50	Natural	17009	17809
14.5	0.18	4.00	50	Black	17014	17814
17.0	0.18	4.00	50	Natural	17050	-
17.0	0.18	4.00	50	Black	17060	-



Cold Weather

Approx. Length (in.)	Approx. Width (in.)	Max. Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number	
					100	1000
7.6	0.18	2.0	50	Black	17006CWB	
11.1	0.18	3.0	50	Black	17008CWB	
14.6	0.18	4.0	50	Black	17014CWB	
14.6	0.18	4.0	120	Black	17012CWB	
7.6	0.18	2.0	50	Blue	17006CWBL	
11.1	0.18	3.0	50	Blue	17008CWBL	
14.6	0.18	4.0	50	Blue	17014CWBL	
14.6	0.30	4.0	120	Blue	17012CWBL	



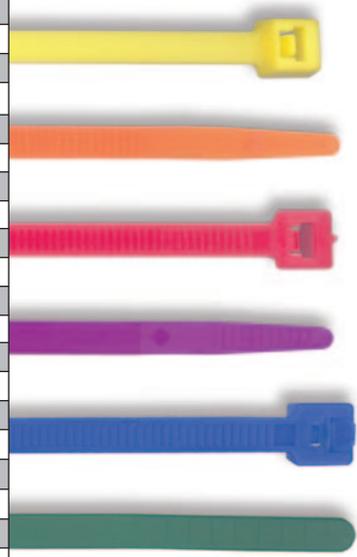
Mounting Ties

Approx. Length (in.)	Approx. Width (in.)	Max. Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number		
					100	500	1000
6.7	0.140	1.25	30	Natural	17043	-	-
6.7	0.140	1.25	30	Black	17044	-	-
8.1	0.185	1.75	50	Natural	17010	-	17910
8.1	0.185	1.75	50	Black	17013	-	17913
11.6	0.185	3.00	50	Natural	17091	17891	-
11.6	0.185	3.00	50	Black	17191	17991	-
15.1	0.187	4.00	50	Natural	17047	17847	-
15.1	0.187	4.00	50	Black	17048	17848	-
Heavy Duty Mounting							
15.7	0.3	4.00	120	Natural	17031	-	-
15.7	0.3	4.00	120	Black	17032	-	-



Color Ties

Approx. Length (in.)	Approx. Width (in.)	Max. Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
					100	
4.1	0.10	0.8	18	Brown		17121
4.1	0.10	0.8	18	Grey		17181
4.1	0.10	0.8	18	Red		17021
4.1	0.10	0.8	18	Orange		17081
4.1	0.10	0.8	18	Yellow		17041
4.1	0.10	0.8	18	Green		17051
4.1	0.10	0.8	18	Blue		17061
4.1	0.10	0.8	18	Purple		17071
7.6	0.18	2.0	50	Brown		17125
7.6	0.18	2.0	50	Grey		17185
7.6	0.18	2.0	50	Red		17025
7.6	0.18	2.0	50	Orange		17085
7.6	0.18	2.0	50	Yellow		17045
7.6	0.18	2.0	50	Green		17055
7.6	0.18	2.0	50	Blue		17065
7.6	0.18	2.0	50	Purple		17075
7.6	0.18	2.0	50	FOE		27085
7.6	0.18	2.0	50	FBE		27065
7.6	0.18	2.0	50	FGN		27055
7.6	0.18	2.0	50	FPK		27025
7.6	0.18	2.0	50	FYW		27045
11.1	0.18	3.0	50	Brown		17127
11.1	0.18	3.0	50	Grey		17187
11.1	0.18	3.0	50	Red		17027
11.1	0.18	3.0	50	Orange		17087
11.1	0.18	3.0	50	Yellow		17147
11.1	0.18	3.0	50	Green		17057
11.1	0.18	3.0	50	Blue		17067
11.1	0.18	3.0	50	Purple		17077



Metal Stainless Steel Tooth Ties

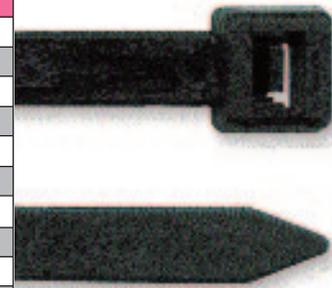
Approx. Length (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
			100	
4.0	18	Natural		97001
4.0	18	Black		97002
5.5	40	Natural		97003
5.5	40	Black		97004
7.9	50	Natural		97005
7.9	50	Black		97006
11.8	50	Natural		97007
11.8	50	Black		97008
14.5	50	Natural		97009
14.5	50	Black		97014
14.5	120	Natural		97615
14.5	120	Black		97616

Excellent at low temperatures!



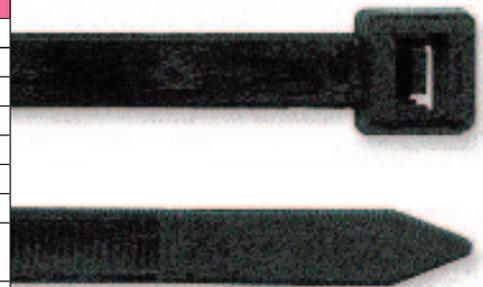
Heavy Duty Ties

Approx. Length (in.)	Approx. Width (in.)	Max. Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number	
					50	100
9	0.30	2	120	Natural	-	17019
9	0.30	2	120	Black	-	17020
15	0.30	4	120	Natural	-	17011
15	0.30	4	120	Black	-	17012
11	0.30	5	120	Black	-	17330
17.7	0.30	5	120	Black	17632	-
17.7	0.30	7	120	Natural	17615	-
21.7	0.30	7	120	Black	17616	-
21.7	0.30	8	120	Natural	17613	-
28	0.30	8	120	Black	17614	-



Extra Heavy Duty Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pk Part #
					50
24.5	0.35	7	175	Natural	17617
24.5	0.35	7	175	Black	17618
36.7	0.35	11	175	Natural	17621
36.7	0.35	11	175	Black	17622
41	0.35	12	175	Black	17624
48	0.35	15	175	Natural	17649
48	0.35	15	175	Black	17650
15	0.50	4	250	Natural	17625
15	0.50	4	250	Black	17627
20.9	0.50	5	250	Black	19626
34.6	0.50	10	250	Black	17628
39.4	0.50	12	250	Black	17630



Releasable and Other Special Use Cable Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack Part Number	
					100	1000
Releasable						
8.0	0.30	1.250	50	Black	17034	17934
8.0	0.30	1.250	50	Natural	17033	17933
11.9	0.30	3.000	50	Black	17036	17936
11.9	0.30	3.000	50	Natural	17035	17935
Identification						
8.0	0.18	1.750	50	Natural	17039	17939
Beaded						
4.200	-	1.140	8	Natural	17080	17980
Cord Band (Ladder Type)						
7.0	-	1.850	-	Natural	-	17970
7.0	-	1.850	-	Black	-	17971
Fir Tree						
8.4	0.30	1.250	50	Black	-	17940
Heat Stabilized						
8.0	0.30	1.250	50	Black	-	17941



Metal Detectable Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
					100	
4.1	0.10	0.8	18	Blue		37001
8.6	0.14	2.0	40	Blue		37002
7.9	0.18	1.9	50	Blue		37006
11.1	0.18	3.0	50	Blue		37011
14.5	0.18	4.0	50	Blue		37014
14.5	0.30	4.0	120	Blue		37015



Push Mount Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
					100	
8.0	0.18	1.8	50	Natural		17117
8.0	0.18	1.8	50	Black		17119



Solar Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
					100	
8.0	0.18	2.0	50	Black		17133
11.8	0.18	3.0	50	Black		17134
14.5	0.18	4.0	50	Black		17135
14.5	0.30	4.0	120	Black		17136



Wing Push Mount Ties

Approx. Length (in.)	Approx. Width (in.)	Max Bundle Diam. (in.)	Tensile Strength (lbs.)	Color	Pcs/Pack	Part Number
					100	
8.0	0.18	1.8	50	Natural		17137
8.0	0.18	1.8	50	Black		17139



Stainless Steel Cable Ties

Made with 316 stainless steel. Resistant to temperature and moisture variations. Ideal for high corrosion areas.

Length (in.)	Width (in.)	Strength (lbs.)	Max Bundle Diameter (in.)	Pcs/Pack	Part #
				100	
8	0.187	150	2		67205
14	0.187	150	4		67209
20	0.187	150	6		67211
27	0.187	150	8		67215



Cable Tie Mounting Bases

Cable Tie Size (lbs.)	Mounting Screw	Part #		Dimensions (in.)			Std Pack Quantity
		White	Black	W	L	H	
4-way (adhesive-backed)							
18 to 30	#6	27300	28300	0.75	0.75	0.21	100
18 to 50	#6	27400	28400	1.00	1.00	0.22	100



Push Mount Clips

Push mount clip (natural). Accepts all cable ties up to 50 lbs. tensile strength. For use in 0.250" (6.4 mm) hole. 25 pack.

Part #	Pcs/Pack
66086	25
66186	100
66886	500



Cable Tie Application Tools



LT-400

- Heavy duty tool for use with 18-50 lb. ties
- Automatic cut-off and adjustable tensioning



LT-100

- Lightweight tool for use with 18-50 lb. ties
- Cinch tie to desired bundle and twist tool to remove excess strap



Stainless Steel Tool #62866

- Steel tie gun for tensioning and cut off. Tool is a ball lock type and ladder type. For use with our stainless steel ties found above.

LT600: Cable Tie Tool-Auto-Cut

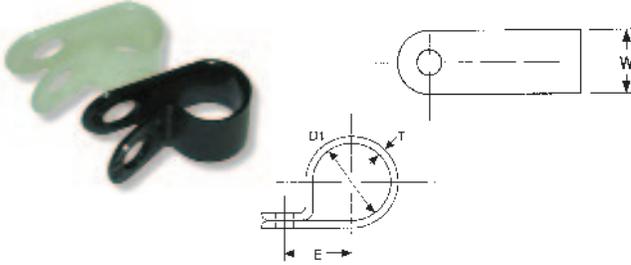


For frequent users and assembly applications, this tool has adjustable tension settings. This tool will automatically cut off the cable tie end at your desired tension with a safe and smooth finish and will remove excess strap flush against the cable tie head. Less operator fatigue. Saves time. Recommended for use with light to standard duty cable ties.

Cable Clamps

Nylon Cable Clamps

Nylon cable clamps resist corrosion road salt, gas, oil and solvents. Available in white or black. Temperature rating is 85°C (185°F).



Part Number	Max. Bundle	Clamp Width	Standard	
White	Black	Dia. (D) (in.)	(W) (in.)	Pack Quantity
22002	24002	1/8	3/8	100
22004	24004	1/4	3/8	100
22005	24005	5/16	3/8	100
22006	24006	3/8	3/8	100
22008	24008	1/2	3/8	100
22010	24010	5/8	3/8	100
22515	24515	1	1/2	50
22518	24518	1-1/4	1/2	50
22520	24520	1-1/2	1/2	50

Steel-Plated Neoprene Cable Clamps

Neoprene cushion for electrical insulation and vibration absorption. Neoprene meets specifications MIL R-3065 and AMS-3209. Steel clamps are zinc electroplated for corrosion resistance. 10 per pack.



Part Number	Mounting Hole Diameter (in.)	I.D. Size (in.)	Width (in.)	Pack Qty.
66321	17/64	1/4	9/16	10
66322	17/64	3/8	9/16	10
66332	0.41	1/2	3/4	10
66333	0.41	5/8	3/4	10
66334	0.41	3/4	3/4	10
66335	0.41	7/8	3/4	10
66336	0.41	1	3/4	10

Add '-C' to part number for 100 piece pack

Loom-Type Steel Clamps with Vinyl Cushion

These clamps are ideal for loom, tubing, and wire and contain an oval opening for easy alignment.

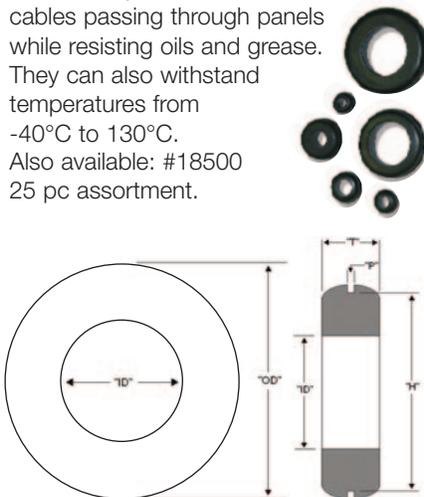


Part Number	Mounting Hole Diameter	I.D. Size (in.)	Width (in.)	Pack Qty.
66087	9/32	1/4	1/2	10
66088	9/32	3/8	1/2	10
66089	9/32	1/2	1/2	10
66090	9/32	5/8	1/2	10
66091	9/32	3/4	1/2	10
66092	9/32	1	1/2	10
66093	9/32	1-1/2	1/2	10

Add '-C' to part number for 100 piece pack.

Grommets

Grommets protect wires and cables passing through panels while resisting oils and grease. They can also withstand temperatures from -40°C to 130°C. Also available: #18500 25 pc assortment.



Part Number	Hole Size (H)	Inside Dia. (ID)	Panel Thickness (P)	Outside Dia. (OD)	Grommet Thickness (T)	Pack Quantity
18301	6.4	4.0	1.6	9.5	6.4	25
18302	6.4	4.0	3.0	9.5	6.3	25
18303	7.9	5.6	2.4	11.1	4.0	25
18305	9.5	7.9	1.6	14.3	7.9	25
18307	12.5	9.5	1.6	17.0	7.0	25
18312	20	16	1.6	24	6.5	25
18314	25.5	22.0	1.6	30.0	8.0	25
18315	31	24.9	1.6	38.0	7.8	25

All dimensions are in millimeters.

Looms and Tubing

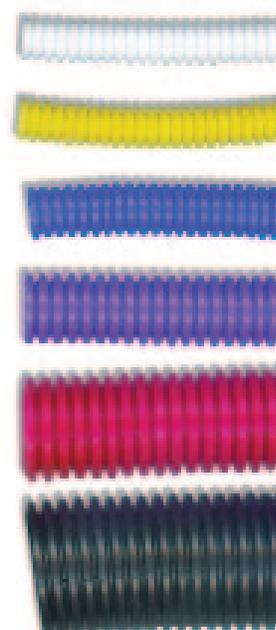
Polyethylene Slit Loom

Slit seam construction allows for easy wire insertion and repair, yet retains wire even when bent or twisted. Maximum temperature 93°C (200°F). Ideal for protecting wire from heat, sunlight, water, snow, ice, salt, friction and vibration wear, fraying and puncture. UV stabilized black.



Spools and Bags

Spools			Bags						
Dia. (in.)	Length Feet	Black	Length Feet	Black	White	Red	Yellow	Blue	Purple
1/4	100	47514	12	47114					
1/4			50	47014	41014	42014	44014	46014	43014
3/8	100	47538	10	47138					
3/8			50	47038	41038	42038	44038	46038	43038
1/2	100	47512	8	47112					
1/2			50	47012	41012	42012	44012	46012	43012
5/8	100	57558	50	47058					
3/4	100	47534	50	47034	41034	42034	44034	46034	43034
1	50	47510	50	47010					
1-1/4			50	47125					



Bulk Boxes

Diameter Inches	Length Feet	Colors & Part Numbers					
		Black	White	Red	Yellow	Blue	Purple
1/4	3200	47914	41914	42914	44914	46914	43914
3/8	1900	47938	41938	42938	44938	46938	43938
1/2	1100	47912	41912	42912	44912	46912	43912
5/8	800	47958					
3/4	550	47934	41934	42934	44934	46934	43934
1	300	47910					
1-1/4	250	47925					
1-1/2	150	47915					
2	100	47920					

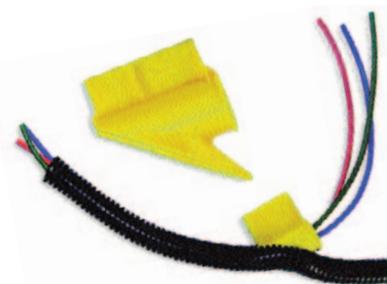
Note: Some sizes and colors are available by special order only. Contact customer service to determine availability.

High Temperature Nylon Slit Loom

Suitable for engine compartments this nylon slit loom, identified by a grey stripe, has a temperature rating of 149°C (300°F).



Slit Loom Installation Tool



Diameter Inches	Length Feet	Part Number Black
Convenience Packs		
1/4	50	48014
3/8	50	48038
1/2	50	48012
5/8	50	48058
3/4	50	48034
1	50	48010

Diameter Inches	Length Feet	Part Number Black
Bulk Packs		
1/4	3200	48914
3/8	1900	48938
1/2	1100	48912
5/8	800	48958
3/4	550	48934
1	300	48910
1-1/4	250	48925
1-1/2	150	48915

Part #	
50241	For smaller diameters (1/4", 3/8" & 1/2")
50242	For larger diameters (1/2", 5/8" & 1")

Braided PET Sleevings

Bundling • Organization • Color Coding
• Chafe Proofing • Wire Harnessing

PET is braided from a 10mil monofilament yarn of polyethylene terephthalate. It is especially useful in passive applications where flexibility, durability and economy are important considerations.



Size	Nominal Dia.	Lgth.	Part Numbers									
Inches Std.	Inches Colors	Ft	Black	Clear	Red	Orange	Yellow	Green	Blue	Purple	Grey	White
1/8	3/32 to 1/4	1000	50018-0	50018-1	50018-2	50018-3	50018-4	50018-5	50018-6	50018-7	50018-8	50018-9
1/8	3/32 to 1/4	100	55018-0	-	-	-	-	-	-	-	-	-
1/4	1/8 to 7/16	1000	50014-0	50014-1	50014-2	50014-3	50014-4	50014-5	50014-6	50014-7	50014-8	50014-9
1/4	1/8 to 7/16	100	55014-0	55014-1	-	-	-	-	-	-	55014-8	-
3/8	3/16 to 5/8	500	50038-0	50038-1	50038-2	50038-3	50038-4	50038-5	50038-6	50038-7	50038-8	50038-9
3/8	3/16 to 5/8	50	55038-0	-	-	55038-3	-	-	-	-	55038-8	55038-9
1/2	1/4 to 3/4	500	50012-0	50012-1	50012-2	50012-3	50012-4	50012-5	50012-6	50012-7	50012-8	50012-9
1/2	1/4 to 3/4	50	55012-0	55012-1	55012-2	55012-3	55012-4	55012-5	55012-6	55012-7	-	-
3/4	1/2 to 1-1/4	250	50034-0	50034-1	50034-2	50034-3	50034-4	50034-5	50034-6	50034-7	55034-8	50034-9
3/4	1/2 to 1-1/4	25	52034-0	-	55034-2	55034-3	55034-4	55034-5	55034-6	55034-7	55034-8	55034-9
1-1/4	3/4 to 1-3/4	250	50125-0	50125-1	50125-2	50125-3	50125-4	50125-5	50125-6	50125-7	50125-8	50125-9
1-1/4	3/4 to 1-3/4	25	52125-0	-	-	-	-	-	-	-	-	55125-9
1-1/2	1 to 2	200	50150-0	50150-1	50150-2	50150-3	50150-4	50150-5	50150-6	50150-7	50150-8	50150-9
1-1/2	1 to 2	20	55150-0	-	-	-	-	-	-	-	-	55150-9
1-3/4	1-1/4 to 2-3/4	200	50134-0	50134-1	50134-2	50134-3	50134-4	50134-5	50134-6	50134-7	50134-8	50134-9
1-3/4	1-1/4 to 2-3/4	20	52134-0	-	-	-	-	-	-	-	-	-
2	1-1/2 to 3-1/2	200	50200-0	50200-1	50200-2	50200-3	50200-4	50200-5	50200-6	50200-7	50200-8	50200-9
2	1-1/2 to 3-1/2	20	55200-0	-	-	-	-	-	-	-	-	-

*Note: Some colors and sizes are available by special order and are subject to minimum order quantity.

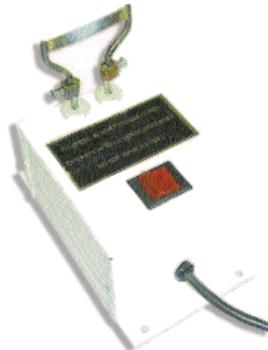
Bench Mount Hot Knife

110 volt A.C.

HKBM

This tool enables the operator to draw the sleeving down across the knife blade—under tension. Both hands are then free to manipulate the sleeving and to seal and flare the ends.

- Tool should be used in well ventilated areas.
- Warms up in less than 30 seconds.
- Cuts through a 1" nylon line in ten seconds.



Wrap Style Semi-Rigid Sleeving

Unique split, semi-rigid braided construction makes it ideal for easy installation and removal. The lateral split allows it to open to accommodate a wide range of bundles, and it closes around the entire bundle without the need for additional fasteners like velcro or tape. 10 mil PET braid with a 25% edge overlap to allow for coverage around inline plugs, connectors and splices. Will not distort or split open and will not impair the flexibility of harnesses.



Size Inches	Part #	Feet
1/8	53018	400
1/4	53025	200
3/8	53038	150
1/2	53050	150
3/4	53075	100
1	53100	100
1-1/4	53125	75
1-1/2	53150	75
2	53200	50



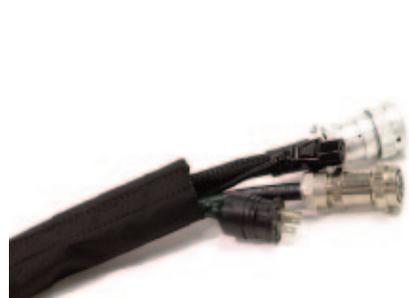
Some sizes are by special order only. Please call customer service for minimum quantities. Other colors available by special order.

Durable Wrap with Hook & Loop Closure

Ideal for protection in harsh environments with easy on, easy off hook and loop closure. Organizes and controls wires, cables and hoses subject to constant and extreme use. Made from tightly woven ballistic Nylon with an aggressive, industrial strength hook and loop closure.



Size Inches	Part #	Feet
1	51100	100
1-1/2	51150	100
2	51200	75
2-1/2	51250	75
3	51300	50
3-1/2	51350	50
4	51400	50
4-1/2	51450	50
6	51600	50



Some sizes are by special order only. Please call customer service for minimum quantities.

Elastomeric Sleeving for Wire & Cable

Neoprene Rubber Hellermann® Sleeves

Hellermann brand neoprene rubber sleeves are ideally suited for identification and protection of wire terminations. Available in a wide variety of colors, they can be installed quickly by stretching (up to 5x) using the 3-pronged applicator tools shown below. Known as 'H-Series' sleeves, these are very popular in the telecommunications and broadcasting industries where quick removal can be important.

- Temp. range of -65°C to 95°C
- Sizes (diameter) from 1.2 mm to 20 mm
- Available in all international resistor color codes, as well as pink

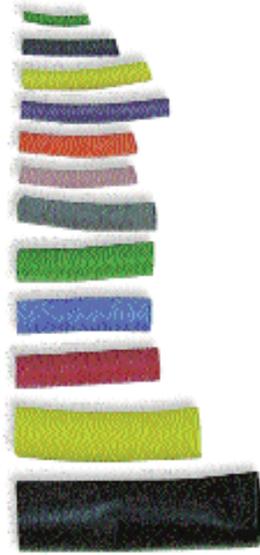
Please contact customer service for other formulations available:

TH Series (neoprene) for applications where thinner wall thickness is required

HT Series (nitrile rubber) for higher temperature environments (up to 120°C)

SLP Series (silicone rubber) for even higher temperatures (up to 180°C)

P Series (PVC) thin wall and color-coded, wire identification markers.



'H' Series Standard Pack Sizes

Part Number	Nom. I.D. (mm)	Nom. Wall (mm)	Std. Pack Size	Standard Lengths Available (L)					
				1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
H12	1.2	0.75	1000	•	•	•	•	•	
H15	1.5	0.75	1000	•	•	•	•	•	
H20	2.0	0.75	1000	•	•	•	•	•	
H25	2.5	0.75	1000	•	•	•	•	•	
H30	3.0	0.75	1000	•	•	•	•	•	
H40	4.0	1.00	1000	•	•	•	•	•	
H50	5.0	1.00	1000	•	•	•	•	•	
H75	7.5	1.25	100		•	•	•	•	•
H100	10.0	1.50	100		•	•	•	•	•
H150	15.0	1.70	100		•	•	•	•	•
H200	20.0	2.00	100		•	•	•	•	•

Color Code	2-Red	5-Green	8-Grey
0-Black	3-Orange	6-Blue	9-White
1-Brown	4-Yellow	7-Violet	P-Pink

To order please specify: Part # - Length - Color Code. E.g., H20-3/4-2 (2.0 mm I.D., 3/4" long, red)

Accessories & Tools

Part #	
D-Kit	Tool body, 3 prongs, lubricant & sizer
SFT-3033	Replacement 'SS' prongs for D-Kit
SFT-3034	Replacement 'S' prongs for D-Kit
SFT-3035	Replacement 'K' prongs for D-Kit
SS Tool	Tool for H12 to H20 x 3/4" long
S Tool	Tool for H25 to H40 x 3/4" long
K Tool	Tool for H50 to H100 x 1-1/4" long
G Tool	Tool for H150 to H200 x 2" long
HD-SS	Heavy duty 'SS' tool
HD-S	Heavy duty 'S' tool
HD-K	Heavy duty 'K' tool
HD-G	Heavy duty 'G' tool
Lube-M	Type 'M' lubricant 284ml



HD Tools have an all-metal housing, and have prongs that can be replaced after wear.

Primary Wire

General Purpose Primary Wire

Plastic primary single conductor wire, with durable thermoplastic PVC compound that resists chemical attack, abrasion and heat to 90°C (194°F). Clean stripping for easy use. Type GPT to SAE specification J1128.



Gauge	Length (ft.)	Outside Dia. (in.)	Stranding (# x in.)	Part Numbers									
				Black	Blue	Brown	Green	Orange	Red	White	Yellow	Purple	Grey
Mini Spools													
18	50	0.091	16 x 0.010	68051	68052	68053	68054		68055	68057	68059		
16	35	0.104	19 x 0.0113	68061	68062	68063	68064		68065	68066	68067		
14	25	0.119	19 x 0.0142	68068	68069	68070	68071		68072	68073	68074		
12	15	0.145	19 x 0.0179	68075	68076	68983	68922		68077	68078	68928		
10	10	0.175	19 x 0.0234	68080	68906	68081	68980		68082	68981	68979		
50' (15.2 m) Spool													
10	50	0.175	19 x 0.0234	68102	68103	68104	68105		68106	68107	68108		
100' (30.5 m) Spool													
20	100	0.084	7 x 0.010	67987	67988	67989	67990		67991	67992	67993		
18	100	0.091	16 x 0.010	68000	68001	68002	68003	68004	68005	68006	68007	68008	68009
16	100	0.104	19 x 0.0113	68010	68011	68012	68013	68014	68015	68016	68017	68018	68019
14	100	0.119	19 x 0.0142	68020	68021	68022	68023	68024	68025	68026	68027	68028	68029
12	100	0.145	19 x 0.0179	68030	68031	68032	68033	68034	68035	68036	68037		
8	100	0.239	7 x 12 x 0.0142	68050					68155	68056			
6	100	0.285	7 x 7 x 0.0226	68060					68165				
4	100	0.354	7 x 27 x 0.0142						68175				
1000' (305 m) Spool													
18	1000	0.091	16 x 0.010	68200	68201	68202	68203	68204	68205	68206	68207	68208	68209
16	1000	0.104	19 x 0.0113	68210	68211	68212	68213	68214	68215	68216	68217	68218	68219
14	1000	0.119	19 x 0.0142	68220	68221	68222	68223	68224	68225	68226	68227	68228	68229
12	1000	0.145	19 x 0.0179	68230	68231	68232	68233	68234	68235	68236	68237		
10	1000	0.175	19 x 0.0234	68240	68241	68242	68243		68245	68246	68247		

SXL Heat Resistant Primary Wire

General purpose, low tension cable, crosslinked polyethylene insulated jacket provides toughness combined with outstanding heat, grease, oil, gasoline and chemical resistance. Clean stripping for easy use. Ideally suited for heavy duty applications. 125°C (257°F) temp rating, 50 volt. chemical attack, abrasion and heat to 90°C (194°F). Clean stripping for easy use. Type GPT to SAE specification J1128.

Gauge	Outside Dia. (in.)	Stranding (# x in.)	Part Numbers								
			Black	Blue	Brown	Green	Purple	Orange	Red	White	Yellow
16	0.129	19 x 0.0113	68840	68841	68842	68843		68847	68844	68845	68846
14	0.151	19 x 0.0142	68850	68851	68852	68853	68858	68857	68854	68855	68856
12	0.172	19 x 0.0179	68860	68861	68862	68863	68868	68867	68864	68865	68866
10	0.203	19 x 0.0234	68770			68773		68774	68775	68776	
8	0.226	7 x 12 x 0.0142	68780					68784	68785		

TEW 600 Volt Rated Primary Wire

For use in internal wiring of electrical equipment. Applications include electric ranges, heating equipment, lighting fixtures, panels and meters. Stranded copper conductor, PVC insulation, 600 volts, -40°C (-40°F) to 105°C (221°F) temp rating. Meets CSA and UL requirements.

Gauge	Outside Dia. (in.)	Stranding (# x in.)	Part Numbers									
			Black	Blue	Brown	Green	Orange	Purple	Red	White	Yellow	Grey
100' (30.5 m) Spool												
18	0.109	16 x 0.010	68654	68655	68656	68657	68658	68599	68659	68660	68660	68662
16	0.122	26 x 0.010	68609	68610	68611	68612	68613	68598	68614	68615	68616	68617
14	0.136	41 x 0.010	68618	68619	68620	68621	68622	68597	68623	68624	68625	68626
12	0.159	65 x 0.010	68627	68628	68629	68630	68631		68632	68633	68634	
10	0.183	104 x 0.010	68694	68695	68696	68697	68698		68699	68700	68701	68702

Cable

Type GPT 2, 3 & 4 Conductor

General purpose, low-tension plastic, insulated cable with grey PVC outer jacket. SAE specification J1128.



Part Number	Conductors /Gauge	Stranding (# x in.)	Red	Green	Black	White
100' (30.5 m)						
68430	2/16	19 x 0.0113			•	•
68431	2/14	19 x 0.0142			•	•
68432	2/12	19 x 0.0179			•	•
68570	3/16	19 x 0.0113		•	•	•
68571	3/14	19 x 0.0142		•	•	•
68580	4/16	19 x 0.0113	•	•	•	•
68581	4/14	19 x 0.0142	•	•	•	•
1000' (305 m)						
68435	2/16	19 x 0.0113			•	•
68436	2/14	19 x 0.0142			•	•
68437	2/12	19 x 0.0179			•	•
68475	3/16	19 x 0.0113		•	•	•
68576	3/14	19 x 0.0142		•	•	•
68585	4/16	19 x 0.0113	•	•	•	•
68586	4/14	19 x 0.0142	•	•	•	•

Type GPT 2 Conductor Parallel Jacketed PVC Cable

General purpose low-tension, plastic insulated cable with PVC compound insulation. Bonded parallel red and brown conductor SAE specification J1128.



Part #	Conductors /Gauge	Stranding (# x in.)	Length (ft.)
68401	2/16	19 x 0.0113	100 (30.5 m) spool
68405	2/16	19 x 0.0113	250 (76.2 m) spool
68416	2/16	19 x 0.0113	2500 (762 m) spool

Speaker Wire Clear Two-Tone Vinyl Jacketed Cable

Bonded parallel conductors. Wire is polarized using bare copper stranding on one side and tin plated copper stranding on the other side.



Part #	Conductors /Gauge	Stranding (# x in.)	Length (ft.)
68500	2/22	19 x .0113	100 (30.5 m) spool

Type GPT Parallel Jacketed 3 & 4 Conductor PVC Cable

General purpose, low-tension, plastic insulated cable with bonded parallel 3 and 4 conductor. SAE specification J1128.



Part Number	Conductors /Gauge	Stranding (# x in.)	Green	Brown	Yellow	White
100' (30.5 m)						
68089	3/16	19 x 0.0113	•	•	•	
68091	3/14	19 x 0.0142	•	•	•	
68090	4/16	19 x 0.0113	•	•	•	•
68092	4/14	19 x 0.0142	•	•	•	•
250' (76 m)						
68481	4/16	19 x 0.0113	•	•	•	•
1000' (305 m)						
68093	4/14	19 x 0.0142	•	•	•	•

Trailer Cable PVC

Cable remains flexible at -70°C (-94°F) and withstands temperature up to 60°C (140°F) with a high dielectric strength. Color-coded multiple conductors with a black PVC outer jacket that resists abrasion and oil contamination. Recommended for rewiring trailers to ICC regulations.

Part Number	Conductors /Gauge	O.D. (in.)	Stranding (# x in.)	Yellow	Red	Green	Brown	Black	Blue	White
50' (15.2 m)										
69086	4/14	0.444	41 x 0.010	•	•	•	•	•	•	•
69091	6/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69084	7/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69083	6/14, 1/12	0.565	41 x 0.010 (14 ga)	•	•	•	•	•	•	•
			65 x 0.010 (12 ga)	•	•	•	•	•	•	•
69096	6/12, 1/10	0.601	65 x 0.010 (12 ga)	•	•	•	•	•	•	•
			105 x 0.010 (10 ga)	•	•	•	•	•	•	•
100' (30.5 m)										
69087	4/14	0.444	41 x 0.010	•	•	•	•	•	•	•
69092	6/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69094	7/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69099	6/14, 1/12	0.565	41 x 0.010 (14 ga)	•	•	•	•	•	•	•
			65 x 0.010 (12 ga)	•	•	•	•	•	•	•
66097	6/12, 1/10	0.601	65 x 0.010 (12 ga)	•	•	•	•	•	•	•
			105 x 0.010 (10 ga)	•	•	•	•	•	•	•
Bulk*										
69088	4/14	0.444	41 x 0.010	•	•	•	•	•	•	•
69093	6/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69095	7/14	0.562	41 x 0.010	•	•	•	•	•	•	•
69128	6/14, 1/12	0.565	41 x 0.010 (14 ga)	•	•	•	•	•	•	•
			65 x 0.010 (12 ga)	•	•	•	•	•	•	•
69098	6/12, 1/10	0.601	65 x 0.010 (12 ga)	•	•	•	•	•	•	•
			105 x 0.010 (10 ga)	•	•	•	•	•	•	•

*Call customer service for exact spool lengths on bulk options. Customers billed per foot.

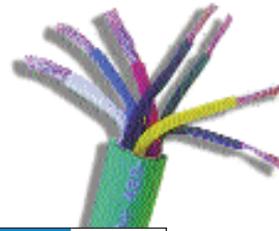
Tinned TEW Wire

This TEW type wire is for use in internal wiring of electrical and electronic equipment. Applications include electric ranges, heating equipment, lighting fixtures, panels and meters. It is tinned for use in marine applications. PVC insulation withstands 600 volts, and is rated for -40°C (-40°F) to 105°C (221°F).

Gauge	Outside Dia. (in.)	Stranding (# x in.)	Part Numbers									
			Black	Blue	Brown	Green	Orange	Red	White	Yellow	Purple	Grey
98.4' (30 m) Spool												
18	0.109	16 x 0.010	68654	68655	68656	68657	68658	68659	68660	68661	68662	68663
16	0.122	26 x 0.010	68664	68665	68666	68667	68668	68669	68670	68671	68672	68673
14	0.136	41 x 0.010	68674	68675	68676	68677	68678	68679	68680	68681	68682	68683
12	0.159	65 x 0.010	68684	68685	68686	68687	68688	68689	68690	68691	68692	68693
10	0.183	104 x 0.010	68694	68695	68696	68697	68698	68699	68700	68701	68702	68703

ABS Trailer Cable (PVC)

This trailer cable exceeds SAE J2394 cable requirements. Specially designed for ABS brake system power requirements on single or multiple trailer configurations, the green outer jacket resists abrasion and oil contaminants and remains flexible at -70°C (-94°F).



Conductors/ Gauge	Outside Dia. (in.)	Stranding	Yellow	Red	Green	Brown	Black	Blue	White
Part # 69494 50' (15.2 m) Spool									
4/12	0.068	65 x 0.010	•	•	•	•	•	•	•
2/10	0.068	105 x 0.010	•	•	•	•	•	•	•
1/8	0.068	168 x 0.010	•	•	•	•	•	•	•
Part # 69493 100' (30.5 m) Spool									
4/12	0.068	65 x 0.010	•	•	•	•	•	•	•
2/10	0.068	105 x 0.010	•	•	•	•	•	•	•
1/8	0.068	168 x 0.010	•	•	•	•	•	•	•
Bulk* (by the foot)									
4/12	0.068	65 x 0.010	•	•	•	•	•	•	•
2/10	0.068	105 x 0.010	•	•	•	•	•	•	•
1/8	0.068	168 x 0.010	•	•	•	•	•	•	•

*Call customer service for exact spool lengths on bulk options. Customers billed per foot.

Neoprene Jacketed Extension Cable

Extra flexible type SJOW jacket cable for use as power supply for machine tools and drills as well as general shop where subjected to hard usage in a damp or dry location. Oil and flame retardant. CSA and USL approved.

Part Number	Conductors/ Gauge	Outside Dia. (in.)	Stranding (# x in.)	Volts
250' (76 m)				
69039	3/18	0.305	16 x 0.010	300
69033	3/16	0.330	26 x 0.010	300
69034	2/14	0.340	41 x 0.010	300
69035	3/14	0.365	41 x 0.010	300



Wire & Cable Tools



Heavy Duty Wire Stripper

Part #69967

Strip and cut 10-26 ga wire without damaging the conductor. Crimps insulated and non-insulated terminals with ease.



Dual Use Stripper/Cutter

Part #95725

This European designed stripper/cutter quickly and accurately strips wire from 10 - 22 ga. Able to convert from stripper to cutter with a slide of the thumb. This tool is very easy to use with very limited strain.

Wire & Cable Tools (continued)

Part #CR-300



Ratchet tool crimps insulated terminals from #22-10 AWG.

Part #CR-100



Crimps insulated and non-insulated terminals from #22 to #10 AWG. Includes stripper and bolt cutter.



Cable Stripper

Part #95721

Ideal for stripping a full range of cable from 8 ga to 4/0 ga.



Compact Cable Cutter

Part #95712

Easily cuts all cable sizes up to 2/0 ga. Approximately 8" long.

Compact Universal Crimping Tool

Part #95728

Ideal for crimping battery terminals from 8 ga (heavy duty only for 8 ga) to 1/0 ga. Approximately 16" long.



Cable Cutter

Part #95714

The long handle provides excellent leverage for cutting large cable up to 350 MCM. Approximately 18" long.



Universal Crimping Tool 8 ga-4/0

Part #95731

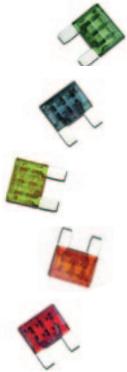
'Mechanics choice' for crimping battery terminals from 8 ga to 4/0 ga. Approximately 25" long.



Blade Fuses

ATO Autofuses

ATO Autofuses are used on most late model cars. Its small size makes it more compact and easy to install and remove. Meet or exceed OEM and SAE standards, and rated at 32 volts. Color coded to indicate amps. Offers protection against shock and sparks as well as corrosion resistance for a longer service life.



Amp. Rating	Color	Pcs/Pack	Part #
		5	100
1	Black	66208	66308
2	Grey	66209	66309
3	Violet	66210	66310
4	Pink	66211	66311
5	Tan	66212	66312
7.5	Brown	66213	66313
10	Red	66214	66314
15	Blue	66215	66315
20	Yellow	66216	66316
25	Clear	66217	66317
30	Green	66218	66318
40	Orange	66219	66319

ATO Mini Fuses

ATO Mini Fuses are becoming more popular for late model applications. Meet or exceed OEM and SAE standards, and rated at 32 volts. Color coded to indicate amps. Offers protections against shock and sparks as well as corrosion resistance for a longer service life.

Amp. Rating	Color	Pcs/Pack	Part #
		5	100
2	Grey	66240	66340
3	Violet	66241	66341
4	Pink	66242	66342
5	Tan	66243	66343
7.5	Brown	66244	66344
10	Red	66245	66345
15	Blue	66246	66346
20	Yellow	66247	66347
25	Clear	66248	66348
30	Green	66249	66349

Fuse Assortments



ATO Autofuse Assortment Kit

Part #66001 (100 pcs)

This kit contains the entire range of ATO Autofuses.

Amp. Rating	Color	Replacement Part #	Quantity
1	Black	66208	5 pcs
2	Grey	66209	5 pcs
3	Violet	66210	5 pcs
4	Pink	66211	5 pcs
5	Tan	66212	15 pcs
7.5	Brown	66213	5 pcs
10	Red	66214	15 pcs
15	Blue	66215	5 pcs
20	Yellow	66216	15 pcs
25	Clear	66217	5 pcs
30	Green	66218	15 pcs
40	Orange	66219	5 pcs



ATO Mini Fuse/Autofuse Assortment Kit

Part #66000 (95 pcs total)

This kit contains popular varieties of our ATO Autofuses (60 pcs) and ATO Mini-Fuses (35 pcs).

ATO Autofuses (60 pcs)

Amp. Rating	Color	Replacement Part #	Quantity
5	Tan	66212	5 pcs
10	Red	66214	15 pcs
15	Blue	66215	5 pcs
20	Yellow	66216	15 pcs
25	Clear	66217	5 pcs
30	Green	66218	15 pcs

ATO Mini Fuses (35 pcs)

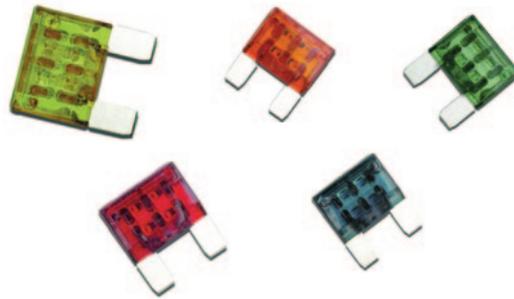
Amp. Rating	Color	Replacement Part #	Quantity
5	Tan	66243	5 pcs
10	Red	66245	5 pcs
15	Blue	66246	5 pcs
20	Yellow	66247	10 pcs
25	Clear	66248	5 pcs
30	Green	66249	5 pcs

Blade Fuses & Fuse Holders

Maxi Fuses are used to protect circuits in the wiring harness usually found under the hood, in a fuse panel or in the supplementary panel near the battery and are rated at 32 volts. Although Maxi Fuses are primarily used in domestic cars, they also have applications in imported models.

Maxi Fuses

Amp. Rating	Color	Pcs/Pack	Part Number
		1	250
20	Yellow	66250	66350
30	Green	66251	66351
40	Orange	66252	66352
50	Red	66253	66353
60	Blue	66254	66354



Fuse Holders for 'ATO®/ATC' Autofuses



Cover sold separately



Fuse Holders

Provides the most efficient method for full protection of all electrical equipment. 16 ga. 2 to 4-1/4" (114 mm) leads. Fuse holders accommodate all Autofuses from 3 to 20 amps. 25/pack.

ATO Fuse Holder Part #64103

Self stripping In-line fuse holder for ATO fuses. 10 pieces/pack (Part #64103C for 100 pack).

Amp	Part #
7.5	64127
10	64129
20	64131
30	64126*
Cover	66259

*12 ga. lead

Fuse Holders For Maxi & Mini Fuses

Fuse holders can be used with or without a cover. Maxi Fuse holder has 6 ga. with 6" lead wire and accommodates Maxi Fuses from 20 to 60 amps. Mini Fuse holder has 16 ga. with 6" lead wire and accommodates Mini Fuses from 2 to 20 amps. 10/pack.



Part #66255

Maxi Fuse holder only. Supplied without fuse.



Part #66256

Maxi Fuse holder cover only.



Part #66257

Mini Fuse holder only. Supplied without fuse.



Part #66258

Mini Fuse holder cover only.

Glass Fuses & Holder



Glass Fuses

Replacement glass tube-type fuses for domestic vehicles. 5/box.

SFE AMP	Part #
9	66188
14	66189
20	66190
30	66191



Panel Fuse Holder Part #66042

Maximum 20 amp. rating. Mounts in 1/2" (12.7 mm) diameter hole.



In-Line Fuse Holder

Supplied with fuse. 25/box.

Color	SFE Amp.	Part #
Red	14	64082
Black	20	64083
Ivory	30	64084
Ivory	9	64081

Fuse Blocks & Terminal Blocks



Blade-Type Fuse Blocks

Compact yet rugged, accepts ATO or ATC blade fuses or blade-type automatic or manual reset circuit breakers.

Positions	Part Number
6	66043
8	66044
10	66045



Glass Fuse Blocks

For SFE-20amp or 3AGC type fuses, 1/4" (6.4 mm) dia. x 1-1/4" (31.8 mm) long. Screw terminals with phosphor bronze fuse clips and hard fiber insulator base.

Positions	Part Number
3	66020
4	66021
6	66023
6*	62132

*with solid brass bus bar for 'hot feed' connecting



Screw Type Terminal Blocks

Self-insulating molded housing. Tin-plate brass screws and binders.

Pairs	Part Number
4	62104
6	62105
10	62106

Circuit Breakers

Universal 'Plug in' Circuit Breakers

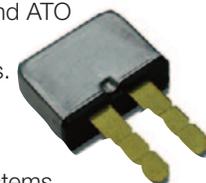
Continuous self-resetting 6-12 volt circuit breaker. Use with headlight switches, window motors, etc. and suitable for replacing fuses in many other applications. Two #10-32 stud terminals hex nuts and washers.



Amps.	Part Number
15	66013
20	66014
25	66015
30	66016

Universal 'Plug in' Circuit Breakers

Heavy-duty replacements for ATC and ATO blade type fuses. Saves time and money in replacing burned-out fuses. Simply snap off tabs with pliers at desired position for size adjustment.



Application: 12 volt DC electrical systems
Dimensions: 0.840" (21.3 mm) x .400" (10.2 mm) x 1.5" (38.1 mm)

Amps.	Part Number
10	66070
15	66071
20	66072
30	66073

Heavy Duty Copper Battery Terminals

Constructed of 131 contact copper to provide high conductivity. Raised characters to ensure legibility of important information regarding cable size, post type, and die code settings. Bright, tin plated finish provides protection against corrosion. Pack sizes vary.



Straight Terminals

Gauge	Die Code Settings	Neg.	Pos.	Univ.
6	Grey J-H			95600
4	Green J-H	95602	95603	95601
2-1	Pink H-H	95604	95605	
1/0	Black E-A	95606	95607	
2/0	Orange A-C	95608	95609	
3/0	Purple A-B	95610	95611	
4/0	Yellow A-A	95612	95613	



Right Angle Terminals

Gauge	Die Code Settings	Neg.	Pos.
1/0	Black E-A	95620	95621
2/0	Orange A-C	95622	95623
3/0	Purple A-B	95624	95625
4/0	Yellow A-A	95626	95627



Right Elbow Terminals

Gauge	Die Code Settings	Neg.	Pos.
1/0	Black E-A	95630	95631
2/0	Orange A-C	95632	95633
3/0	Purple A-B	95634	95635
4/0	Yellow A-A	95636	95637



Left Elbow Terminals

Gauge	Die Code Settings	Neg.	Pos.
1/0	Black E-A	95640	95641
2/0	Orange A-C	95642	95643
3/0	Purple A-B	95644	95645
4/0	Yellow A-A	95646	95647



Stud Top, Single Barrel Side Mount Terminal

Gauge	Die Code Settings	Universal
4	Green J-H	95650
2-1	Pink H-H	95651
1/0	Black E-A	95652
2/0	Orange A-C	95653
3/0	Purple A-B	95654
4/0	Yellow A-A	95655



Stud Top, Double/Splice Side Mount Terminal

Gauge	Die Code Settings	Universal
1/0	Black E-A	95656
2/0	Orange A-C	95657
3/0	Purple A-B	95658
4/0	Yellow A-A	95659



Stud Top, Single Barrel Top Mount Terminal

Gauge	Die Code Settings	Universal
2/0	Orange A-C	95660



Stud Top, Single Barrel Top Mount Terminal

Gauge	Die Code Settings	Universal
2/0	Orange A-C	95661

Emergency & Marine Terminals



Universal Emergency Lead Battery Terminal
Wire Gauge 8-2/0
Part # 95100



Universal Heavy Duty Lead Battery Terminal
Wire Gauge 2/0-4/0
Part # 95102



Marine Brass Quick Disconnect
Part # 95107



Universal Emergency Side Mount Lead Battery Terminal
Wire Gauge 8-2/0
Part # 95101



Universal Bolt Type Terminal
Part # Pos. 95104
Part # Neg. 95103

Heavy Duty Lugs

Constructed of seamless tubular 100% electrolytic copper to ensure high connectivity. Chamfered cable entry allows easy installation over conductors. Tin plated to provide maximum corrosion protection. Pack sizes vary.



Heavy Duty Lugs

Gauge	Die Code Settings	1/4"	5/16"	3/8"	1/2"
6	Blue K-K	95400	95401	95402	
4	Gray J-H	95403	95404	95405	95406
1-2	Pink H-H	95407	95408	95409	95410
1/0	Black E-A	95411	95412	95413	95414
2/0	Orange A-C		95415	95416	95417
3/0	Purple A-B			95418	95419
4/0	Yellow A-A			95420	95421



Splices

Gauge	Die Code Settings	Part #
6	Blue K-K	95520
4	Gray J-H	95521
1-2	Pink H-H	95522
1/0	Black E-A	95523
2/0	Orange A-C	95524
3/0	Purple A-B	95525
4/0	Yellow A-A	95526



Heavy Duty Starter Lugs with 45° Bend

Gauge	Die Code Settings	5/16"	3/8"	1/2"
6	Blue K-K	95430	95431	
4	Gray J-H	95432	95433	
1-2	Pink H-H		95434	95435
1/0	Black E-A		95436	95437
2/0	Orange A-C		95438	95439
3/0	Purple A-B		95440	95441
4/0	Yellow A-A		95442	95443



Heavy Duty Starter Lugs with 90° Bend

Gauge	Die Code Settings	5/16"	3/8"	1/2"
6	Blue K-K	95460	95461	
4	Gray J-H	95462	95463	
1-2	Pink H-H		95464	95465
1/0	Black E-A		95466	95467
2/0	Orange A-C		95468	95469
3/0	Purple A-B		95470	95471
4/0	Yellow A-A		95472	95473

Locking Lugs

Locks into numerous positions to enable the user to design the battery harness they need to fit into today's tight battery boxes. The exceptional lock ensures that the terminals adhere to one another to resist vibration while working together in even the most demanding environment. The electro-tin-plating promotes corrosion resistance; meets the TMC standard for battery terminals. The innovative design and improved technology are less costly than conventional cast battery terminals. The unique design increases the contact area between terminals by more than 25%. Increased contact area means a superior contact. 99.9% electrolytic copper provides the highest conductivity available while assuring unrestricted electrical flow from the battery. This locking lug is a heavy duty battery terminal that can be used as a heavy duty starter lug.



Double Barrel Locking Lug

Gauge	Die Code Settings	3/8"
1/0	Black E-A	95200
2/0	Orange A-C	95201
3/0	Purple A-B	95202
4/0	Yellow A-A	95203



Single Barrel Locking Lug

Gauge	Die Code Settings	3/8"
4	Gray J-H	95204
1-2	Pink H-H	95205
1/0	Black E-A	95206
2/0	Orange A-C	95207
3/0	Purple A-B	95208
4/0	Yellow A-A	95209

Standard Wall Lugs



Standard Wall Starter Lugs (unplated)

Gauge	1/4"	5/16"	3/8"	1/2"
8	95350	95351	95352	95353
6	95354	95355	95356	95357
4	95358	95359	95360	95361
1	95362	95363	95364	95365
2	95366	95367	95368	95369
1/0	95370	95371	95372	95373
2/0	95374	95375	95376	95377
3/0			95378	95379
4/0			95380	95381



Standard Wall Starter Lugs (plated)

Gauge	1/4"	5/16"	3/8"	1/2"
8	95300	95301	95302	95303
6	95304	95305	95306	95307
4	95308	95309	95310	95311
1	95312	95313	95314	95315
2	95316	95317	95318	95319
1/0	95320	95321	95322	95323
2/0	95324	95325	95326	95327
3/0			95328	95329
4/0			95330	95331



Splices

Gauge	Part #
8	95500
6	95501
4	95502
1	95503
2	95504
1/0	95505
2/0	95506
3/0	95507
4/0	95508

Solder Pellets

Solder Pellets

Wire Size	Color Code	Part #
4 AWG	Grey	95670
2 AWG	Green	95671
1 AWG	Pink	95672
1/0 AWG	Black	95673
2/0 AWG	Orange	95674
3/0 AWG	Purple	95675
4/0 AWG	Yellow	95676



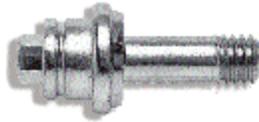
Turn to Page 46
for the Battery
Terminal Kit.

Nuts & Bolts



Side Mount Bolt OEM

Steel, Zinc Plated
Part # 95000



Side Mount Bolt OEM
Extra-Long

Steel, Zinc Plated
Part # 95001



Lead Side Female Terminals
with Charging Post

Universal
Part # 95002



Lead Side Terminals with
Charging Post

Negative
Part # 95003



Lead Side Terminals with
Charging Post

Positive
Part # 95004



Stainless Steel
Hold Down Nut

Closed Head
Part # 95005



Stainless Steel
Hold Down Nut

Open Head
Part # 95006



5/16 - 18 x 1-1/4 Bolt and
Shoulder Nut

**Zinc Plated
A.C. Coated (Anti-Corrosion)**
Part # 95007
Part # 95008



Side Mount Battery Bolt
with Nut

Brass
Part # 95009



Side Mount Battery Bolt
Long with Nut

Brass
Part # 95010



Side Mount Battery Bolt with
Add On Nut

Brass
Part # 95012

Battery Post & Terminal Cleaner

Part #95718

Corrosion-resistant, self-contained brush set for cleaning post terminals and cable connectors.

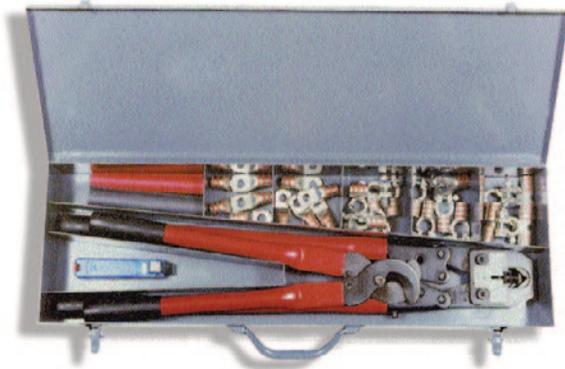


Battery Terminal & Tool Kits

Crimping Tool Kit

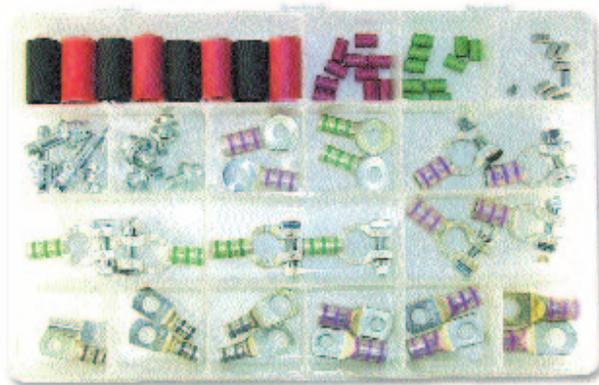
Part #95730

'Mechanics choice' assortment of our most popular battery terminals and tools in a rugged metal carrying case.



For individual tools, see page 38.

Qty.	Description	Part #
1	Universal crimping tool. 8 AWG through 4/0	95731
1	Metal tool chest	
1	Cable cutter - maximum 350 MCM	95714
1	'Smart blade' cable stripper	95721
5	2/0 positive straight battery terminals	95609
5	2/0 negative straight battery terminals	95608
5	2/0, 3/8" heavy duty starter lugs	95416
5	2/0, 1/2" heavy duty starter lugs	95417
2	2/0 Negative flag battery terminals	95622
2	2/0 positive flag battery terminals	95623
2	1" exp., 6" black medium wall heat shrink tubing	15605
2	1" exp., 6" red medium wall heat shrink tubing	15625



Battery Terminal Kit

Part #95800

New shop assortment for battery cable assembly and repair. Fits popular wire sizes 4 ga. to 1 ga. Includes, Therafix ST thick-wall heat shrink tubing, solder pellets, mounting bolts and 12 different terminal shapes and sizes.

Compact Crimping Tool Kit

Part #95729

A convenient selection of battery terminals, heat shrink and a crimping tool in a compact metal carrying case.

Qty.	Description	Part #
1	Compact universal crimping tool. 8 AWG through 1/0	95728
1	Metal tool chest for 0280C	
5	4GA universal straight terminals	95601
5	1-2GA negative straight terminals	95604
5	1-2GA positive straight terminals	95609
5	1/0 negative straight terminals	95608
5	1/0 positive straight terminals	95416
5	4GA, 3/8" heavy duty starter lug	95417
5	1-2GA, 3/8" heavy duty starter lug	95622
5	1/0, 3/8" heavy duty starter lug	95623
5	3/4" Exp., 6" black medium wall heat shrink tubing	80607
5	3/4" Exp., 6" red medium wall heat shrink tubing	70607



For individual tools see page 37

A Quick Guide to



Heat Shrink Products

Product	Shrink Ratio	Sizes	Adhesive Lined	Temperature Range	Agency Approval	Colors	RoHS Compliant	Rigidity
Thermosleeve® Single Wall Polyolefin Tubing	2:1	3/64" to 4"	No	-30°C to 125°C -22°F to 257°F	UL (E180908)	Black White Red Yellow Blue Green Orange Violet Grey	Yes	Very flexible
Thermosleeve® Single Wall Polyolefin (Clear)	2:1	3/64" to 4"	No	- 55°C to 135°C - 67°F to 275°F	N/A	Clear	Yes	Flexible
Thermosleeve® Plus Dual Wall Polyolefin Tubing	4:1	1/4" to 3/4"	Yes	- 40°C to 130°C - 40°F to 266°F	N/A	Black Clear	Yes	Semi-rigid
Thermosleeve® ST Heavy Wall Polyolefin Tubing	3:1	0.4" to 4"	As Required	- 55°C to 90°C - 67°F to 194°F	N/A	Black Red	Yes	Rigid
Thermosleeve® 3X Single Wall Polyolefin Tubing	3:1	1.6" to 1.5"	No	- 30°C to 125°C - 22°F to 257°F	UL (E180908)	Black White	Yes	Very flexible
Thermosleeve® DWP Dual Wall Polyolefin Tubing	3:1	1/8" to 1.5"	Yes	- 40°C to 110°C - 40°F to 230°F	N/A	Black White Red Yellow Blue Green	Yes	Flexible
Thermosleeve® DC Dual Color Polyolefin Tubing	2:1	1/8" to 1"	No	- 55°C to 135°C - 67°F to 275°F	UL (E180908)	Yellow/Green (Dual Color)	Yes	Flexible
Thermosleeve® Crimp Shrinkable Nylon Terminals and Splices	as per specified wire gauge	10 to 22 AWG	Yes	- 55°C to 125°C - 67°F to 257°F (E87681)	UL C-UL	Red Blue Yellow	Yes	Rigid
Thermosleeve® SolderSplice Shrinkable Polyolefin Wire-to-wire Splices with Solder wire gauge	as per specified	10 to 24 AWG	Partial	- 30°C to 125°C - 22°F to 257°F	UL (E87681)	Red Blue Yellow Grey	No	Semi-rigid

General Installation Instructions for **Thermosleeve®** Heat Shrink Products

Always select the largest size of tubing that will still fit snugly after shrinking, according to the shrink ratio of the product being used (e.g., for 2:1 products, select approximately twice the diameter). Cut the tubing to the exact length required (i.e., no shrinkage in length) with a clean, square cut to avoid splitting.

Position the tubing over the object and heat evenly until the tubing shrinks into place or shrinks no further. Products containing pre-installed adhesive may require extra heat to melt and flow the adhesive for proper application.

Keep the heat source or product moving so the heat is not concentrated in one spot. Keep the heat source at least one inch away from the tubing, using a low-intensity heat source such as a hot air gun, oven, infrared heat source, or soft (yellow) flame.





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