



SOLAR SOLUTIONS MINI CATALOG

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Solar PV Connectors

Solar Photovoltaic Connectors are used in the solar energy industry to connect PV panels in multi-panel configurations. They are a single-pole connector system consisting of a male cable coupler (housing), female cable coupler (housing), socket contact, and pin contact. The contacts are crimped onto the solar cable, then assembled with the cable coupler housings before being mated together.



TE Connectivity Solarlok PV4-S Cable Couplers

Provide reliable and safe connections of solar arrays. Use industry standard crimp tooling. Rated to 1500V. IP68, UL, TUV, RoHS, UL94-V0 Flammability Rating. Operating temperature -40°C to 85°C (-40°F to 185°F).

type	gauge	TE part no.	Del City part no.	pack qty
female w/ contact	12-10	2270025-1	91025	1000
male w/contact	12-10	2270024-1	91024	1000

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Stäubli MC4 Cable Couplers

Often viewed as the standard connector in the solar energy industry, more than 50% of the world's PV power is installed using MC4 connectors (over 1 billion in total). Rated to 1500V. IP68, UL, CSA, TUV, RoHS, UL94-V0 Flammability Rating. Operating temperature -40°C to 85°C (-40°F to 185°F).

type	gauge	Stäubli part no.	Del City part no.	pack qty
female w/ contact	12-10	32.0016P0001-UR	92016	5
			93016	20
			94016	100
male w/contact	12-10	32.0017P0001-UR	92017	5
			93017	20
			94017	100

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



93218

Stäubli MC4 Branch Connectors

2 to 1 connectors allow a safe and simple parallel or serial-parallel connection of PV modules. Pluggable with single-pole MC4 connectors. Rated to 1500V. IP67, UL, RoHS, UL94-V0 Flammability Rating. Operating temperature -40°C to 85°C (-40°F to 185°F).

type	gauge	Stäubli part no.	Del City part no.	pack qty
2 female to 1 male	12-10	32.0018.P1	93218	1
2 male to 1 female	12-10	32.0019.P1	93219	1

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Stäubli MC4 Assembled Cable

Black FLEX-SOL-EVO-DX cable. MC4 Connectors installed on each end (one male, one female). Rated to 1500V. IP67, UL, RoHS, UL94-V0 Flammability Rating. Operating temperature -40°C to 85°C (-40°F to 185°F).

part no.	gauge	length	Amp rating
93218	10	15 feet	30 Amp

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



TE Connectivity PV Crimp Tool

Crimps all industry standard 12-10 gauge PV contacts. Includes crimp head and locator. Ratcheting action.

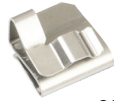
part no.	crimps gauges	TE part no.
990042	12-10	1-1579004-2

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Heyco® Solar Clips & Fasteners



96445



96446

HEYClip™ SunRunner® Cable Clips

Heyco® Sunrunner® Cable Clips provide an ideal method for PV module wire management. Constructed from .025" thick corrosion resistant 304 stainless steel, they feature smooth edges to prevent damage to cable insulation. These clips accommodate cables between 0.20" and 0.33" in diameter. Available in standard and 90° options. Part number 96445 can hold one 12 ga USE-2 to two 10 gauge PV-1000V solar wires. The standard cable clip also provides a screwdriver slot for easy removal and locking tabs to securely fasten clips to module extrusions or other panels. Part number 96446 is designed for use with PV modules mounted in the "landscape" mode. Certified by UL for Compliance with both Canadian and US Requirements. Operating temperature: -40°F to 572°F (-40°C to 300°C).

⚠ WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov.

part no.	description	panel size	no. of wires	Heyco part no.
96445	straight	0.090" (2.3mm)	1-2	S6445
96446	90°	0.125" (3.2mm)	1	S6446

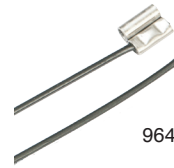


SunScreener® Wire Mesh Clip

Heyco® SunScreener® Wire Mesh Clips are designed for use with wire mesh screening (not included), commonly used to protect solar panels from rodents and nesting birds. The 303 stainless steel J-hook easily attaches to the solar panel frames and can be easily bent or trimmed after assembly, while the 304 stainless steel washers firmly hold wire mesh screen to the module assembly. Installs quickly and easily with standard linesman pliers and does not violate panel integrity. DFARS Compliant.

⚠ WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov.

part no.	color	Heyco part no.
96437	steel gray	S6437



96408

SunBundler® Crimp Lock Cable Ties

Heyco® SunBundler® Crimp Lock PVC Coated Stainless Steel Wire Cable Ties are constructed from Commercial Aircraft Grade 302/304 stainless steel wire, with a UV protected vinyl jacket, making them ideal for use in solar installations. The stainless steel crimp sleeve can be crimped with electrician linesman pliers or wire cutters, making field installation simple. Certified by UL for Compliance with both Canadian and US Requirements for indoor and outdoor usage. Operating temperature: -40°F to 221°F (-40°C to 105°C).

⚠ WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov.

part no.	panel size	no. of wires	Heyco part no.
96408	8"	black	S6408
96412	12"	black	S6412
96414	14"	black	S6414

min. 10 pcs.



Nylon 12 Solar Cable Ties

Nylon 12 Solar cable ties are designed for solar and extreme environmental applications to withstand corrosive elements and harsh sun rays. Manufactured with Nylon 12 material, to ensure stability, low water absorption and chemical resistance. Their smooth edges eliminate abrasion damage and are ideal for galvanized steel surfaces. RoHS and REACH compliant. Operating Temperature: 0°C to 85°C (32°F to 185°F)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	length	approx. width	loop tensile strength	max. dia.	pkg. qty.
9502	5"	.140"	40 lbs	1 ³ / ₈ "	100
9504	7"	.180"	50 lbs	1 ⁷ / ₈ "	100
9506	11"	.180"	50 lbs	3"	100
9508	14"	.180"	50 lbs	4"	100



Extreme Temperature Cable Ties

Extreme Temperature Cable Ties are specifically designed to perform in a harsh environment application. Enhanced UV protection and are UL listed for indoor and outdoor applications from -20°C to 85°C (-4°F to 185°F). Maintain their properties down to -40°C (-40°F).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
9900	8"	.18"	50 lbs	2"	100
9902	11"	.18"	50 lbs	3"	100
9904	14"	.18"	50 lbs	4"	100

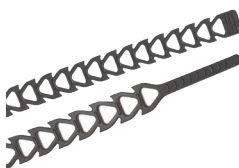


Stainless Steel Cable Ties

Manufactured from 304 stainless steel and designed for harsh, corrosive, and salt-water environments. Resistant to chemicals and radiation exposure. UV resistant and UL Rated. Operating Temperature range: -80°C (-112°F) to 538°C (1000°F).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
920210	6"	0.181"	200 lbs	1 ¹³ / ₁₆ "	10
9202	6"	0.181"	200 lbs	1 ¹³ / ₁₆ "	100
920410	8"	0.181"	200 lbs	2 ⁷ / ₁₆ "	10
9204	8"	0.181"	200 lbs	2 ⁷ / ₁₆ "	100
920610	11"	0.181"	200 lbs	3 ¹ / ₂ "	10
9206	11"	0.181"	200 lbs	3 ¹ / ₂ "	100
920810	14"	0.181"	200 lbs	4 ⁷ / ₁₆ "	10
9208	14"	0.181"	200 lbs	4 ⁷ / ₁₆ "	100



19015225

Reusable Flexible Straps

Features a 12" long strap with finger grips on the end and tail, malleable material that will stretch up to 300%. Thread multiple straps together for greater lengths.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black

part no.	approx. length	min. dia.	max. dia.	pkg. qty.
19015225	12"	¼"	3¼"	12
19015226				24



990090

Light Duty Cable Ties

Meets UL94V-2 Flammability Classification. Operating Temperature: up to 85°C (185°F)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
962700	6"	0.100"	18 lbs	1 ³ / ₈ "	100
962701	8"	0.100"	18 lbs	2"	100



Releasable Cable Ties

The release feature enables the cable tie to be re-used. For use at temperatures not exceeding 85°C (185°F). Meets UL94V-2 Flammability Classification.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
9954	7½"	.177"	50 lbs	1¾"	100
9956	11"	.177"	50 lbs	3"	100

INFORMATION

To release, grasp the head of the cable tie, deflect release tab and pull the cable tie away from bundle.



Standard Cable Ties

Meet UL94V-2 Flammability Classification. RoHS. Operating temperature: up to 85°C (185°F).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
962303	4"	.100"	18 lbs	13/16"	100
9623	4"	.100"	18 lbs	13/16"	1000
962703	6"	.140"	45 lbs	1 3/8"	100
9627	6"	.140"	45 lbs	1 3/8"	1000
962903	8"	.170"	75 lbs	2"	100

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
9629	8"	.170"	75 lbs	2"	1000
963103	11"	.170"	75 lbs	3"	100
9631	11"	.170"	75 lbs	3"	1000
963303	14"	.170"	75 lbs	4"	100
9633	14"	.170"	75 lbs	4"	1000



Screw Mount Cable Ties

Molded-in screw hole for securing bundles of wire on virtually any surface that has or can accept a drilled hole. Up to a ¼" screw size can be used, or a comparable rivet size. All mounting tab cable ties are manufactured from durable nylon 6/6. Recognized under the Component Program of Underwriters Laboratories Inc. for use at temperatures not exceeding 85°C (185°F). Meets UL94V-2 Flammability Classification.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

standard UV-resistant black

part no.	approx. length	approx. width	loop tensile strength	max. dia.	screw size	pkg. qty.
9651	6½"	.170"	50 lbs	1¾"	10	100
9653	8"	.170"	50 lbs	2"	10	100
9655	11"	.170"	50 lbs	3"	10	100

heavy-duty UV-resistant black

part no.	approx. length	approx. width	loop tensile strength	max. dia.	screw size	pkg. qty.
9657	14"	.295"	120 lbs	4"	¼"	100
9659	22"	.310"	120 lbs	6"	¼"	100
9661	29"	.310"	120 lbs	8"	¼"	100



Self-Cutting Cable Ties

A small cutting blade integrated into the head of each tie ensures a tight lock and quick, clean cut. Operating temperature: up to 85°C (185°F)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
9910	8"	0.163"	50 lbs	2"	100
9912	11"			3"	
9914	14"			4"	



Low Profile Cable Ties

Reduced head height allows for a parallel tail insertion, providing a perfectly round installation with no angles. Perfect for cable bundles or hoses. Operating temperature: up to 85°C (185°F)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
994303	8"	.18"	50 lbs	2"	100
9943	8"	.18"	50 lbs	2"	1000

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
994503	11"	.18"	50 lbs	3"	100
9945	11"	.18"	50 lbs	3"	1000



Metal Pawl Precision Cable Ties

Cable ties with metal pawls are designed to accurately adjust to any point on the body of the tie, allowing for a level of precision not possible with traditional ties.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
999103	4"	0.100"	18 lbs	5/8"	100
9991	4"	0.100"	18 lbs	5/8"	1000
999303	7"	0.190"	50 lbs	2"	100
9993	7"	0.190"	50 lbs	2"	1000

UV-resistant black nylon

part no.	approx. length	approx. width	loop tensile strength	max. dia.	pkg. qty.
999503	11"	0.190"	50 lbs	3"	100
9995	11"	0.190"	50 lbs	3"	1000
999703	14"	0.190"	50 lbs	4"	100
9997	14"	0.190"	50 lbs	4"	1000



990080

990085

Cable Tie Tools

These tools are extremely reliable and easy to use. The tension control on 990080 and 990085 allows adjustments for a range of lightweight ties up to 75 lbs tension setting. The 990080 tightens and cuts the cable tie flush. The 990090 is a tool for heavy-duty cable ties with 120 lbs to 175 lbs tension settings.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	description
990080	economical cable tie tool
990085	standard cable tie tool
990090	heavy-duty cable tie tool

Split Loom



Material Specifications

Material
High Temperature Heat Stabilized Nylon with UV Inhibitor

Standard Color
Black with Orange Stripe

Operating Range
-40° to 149° C
(-40° to 300° F)

UV Resistant High-temperature Split Loom (High Rise Ridge)

UV resistant high-temp split loom is a high-temperature sleeving with added UV stabilizer that protects wires and cables against abrasion or crushing, and has a heat resistance range up to 149°C (300°F). UV Resistant High-Temperature Split Loom is distinctly marked with an orange stripe running the entire length. Temperature Range: -40°C to 149°C (-40°F to 300°F). RoHS.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	I.D.	foot per box	lbs per box
743		100'	2
1743	1/4"	250'	6
1943		3,200'	29
744		100'	3
1744	3/8"	250'	8
1944		1,900'	27
746		100'	4
1746	1/2"	250'	8
1946		1,100'	27
748		100'	4
1748	5/8"	250'	10
1948		800'	21

part no.	I.D.	foot per box	lbs per box
749		50'	3
1749	3/4"	150'	9
1949		500'	28
1750	1"	75'	3.5
1950		300'	8
1960	1 1/8"	250'	25
1952	1 1/4"	250'	19
1953	1 1/2"	150'	25
1954	2"	100'	25



Loom Insertion Tool

Perfect for repetitive applications.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	I.D. size
909900	loom insertion tool, 1/4"-7/16"
909905	loom insertion tool, 1/2"-5/8"
909910	loom insertion tool, 3/4"-7/8"

part no.	I.D. size
909915	loom insertion tool, 1"-1 1/4"
909920	loom insertion tool kit, 1/4" - 1 1/4"

Heyco® Liquid Tight



Liquid Tight Electrical Tubing

Liquid tight tubing is made of highly flexible PVC material. It resists corrosion, oil, and water. The tubing is also UV resistant and best used for high vibration and flexing applications such as automotive equipment and tight turn applications. The tubing passes a submersion test of 70 psi. Meets UL, CSA and VW1 requirements. Voltage Rating: 300V. Flammability Rating: VW1. Temperature Rating: -0.4°F to 158°F (-18°C to 70°C).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	I.D.	foot per box	approx lbs per box
680025	¼"	100'	7
680038	⅜"		9
680050	½"		10
680075	¾"		13

part no.	I.D.	foot per box	approx lbs per box
680100	1"	100'	19
680125	1¼"		21
680150	1½"	50'	17

Liquid Tight Fittings

Liquid tight, NPT hubs are made of nylon 6/6 material and do not require disassembly. To install, simply push liquid tight tubing onto the fitting and tighten the sealing nut. The fitting is also reusable and easily removed by pulling and twisting. Hubs are rated to IP68, and up to 70 psi. Resists salt, water, weak acids, gasoline, alcohol, oil, grease, and other common solvents. Meets UL, CSA, 94V-2 requirements. Flammability Rating: 94V-2. Max Temp: 221°F (105°C).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



part no.	I.D.	type
6002	⅜"	straight-thru
6003	½"	
6004	¾"	
6010	1"	
6011	1¼"	
6012	1½"	

part no.	I.D.	type
6302	⅜"	90° Sweep
6303	½"	
6304	¾"	
6310	1"	
6311	1¼"	
6312	1½"	

Electrical Tubing Mounting Brackets

Brackets are used for mounting liquid tight tubing securely into place, either vertically or horizontally, and the low profile design saves space. Use fingertip pressure to easily snap into the bracket. The ideal distance between brackets is not greater than 3-ft. The brackets are a nylon 6/6 material that will resist salt, water, weak acids, gasoline, alcohol, oil, grease, and other common solvents. Flammability Rating: 94V-2. Max Temp touching bracket: 221°F (105°C).

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



part no.	I.D.
6502	⅜"
6503	½"

part no.	I.D.
6504	¾"
6510	1"



5052 Aluminum Clamps (EPDM removable jacket) - 1/2" metal width

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	size closed I.D.	bundle O.D.		SAE size
		min.	max.	
2804*	1/4"	3/16"	1/4"	004
2806*	3/8"	1/4"	3/8"	006
2808*	1/2"	3/8"	1/2"	008
2810*	5/8"	1/2"	5/8"	010
2812*	3/4"	5/8"	3/4"	012
2814*	7/8"	3/4"	7/8"	014
2816*	1"	7/8"	1"	016
2819	1 1/8"	1"	1 1/8"	018
2820	1 1/4"	1 1/8"	1 1/4"	020

part no.	size closed I.D.	bundle O.D.		SAE size
		min.	max.	
2822	1 3/8"	1 1/4"	1 3/8"	022
2824	1 1/2"	1 3/8"	1 1/2"	024
2826	1 5/8"	1 1/2"	1 5/8"	026
2827	1 3/4"	1 5/8"	1 3/4"	028
2829	1 7/8"	1 3/4"	1 7/8"	030
2832	2"	1 7/8"	2"	032
2836	2 1/4"	2 1/8"	2 1/4"	036
2840	2 1/2"	2 3/8"	2 1/2"	040
2849	3"	2 7/8"	3"	048



Zinc Plated SPCC-5D Steel Clamps (EPDM removable jacket)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.		size closed I.D.	bundle O.D.		SAE size
1/2" width	5/8" width		min.	max.	
2004*	2004625*	1/4"	3/16"	1/4"	004
2006*	2006625*	3/8"	1/4"	3/8"	006
2008*	2008625*	1/2"	3/8"	1/2"	008
2010*	2010625*	5/8"	1/2"	5/8"	010
2012*	2012625*	3/4"	5/8"	3/4"	012
2014*	2014625*	7/8"	3/4"	7/8"	014
2016*	2016625*	1"	7/8"	1"	016
2018	2018625	1 1/8"	1"	1 1/8"	018
2020	2020625	1 1/4"	1 1/8"	1 1/4"	020
2022	2022625	1 3/8"	1 1/4"	1 3/8"	022
2024	2024625	1 1/2"	1 3/8"	1 1/2"	024

part no.		size closed I.D.	bundle O.D.		SAE size
1/2" width	5/8" width		min.	max.	
2026	2026625	1 5/8"	1 1/2"	1 5/8"	026
2028	2028625	1 3/4"	1 5/8"	1 3/4"	028
2030	2030625	1 7/8"	1 3/4"	1 7/8"	030
2032	2032625	2"	1 7/8"	2"	032
2034	—	2 1/8"	2"	2 1/8"	034
2036	2036625	2 1/4"	2 1/8"	2 1/4"	036
2038	2038625	2 3/8"	2 1/4"	2 3/8"	038
2040	2040625	2 1/2"	2 3/8"	2 1/2"	040
2048	2048625	3"	2 7/8"	3"	048
2050	2050625	3 1/2"	3 3/8"	3 1/2"	056

* Min qty: 100; all others min qty: 10



SUS304 Stainless Steel Clamps (EPDM removable jacket)

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.		size closed I.D.	bundle lines O.D.		SAE size
1/2" width	5/8" width		min.	max.	
200409	20409625	1/4"	3/16"	1/4"	004
200609	20609625	3/8"	1/4"	3/8"	006
200809	20809625	1/2"	3/8"	1/2"	008
201009	21009625	5/8"	1/2"	5/8"	010
201209	21209625	3/4"	5/8"	3/4"	012
201409	21409625	7/8"	3/4"	7/8"	014
201609	21609625	1"	7/8"	1"	016
201809	21809625	1 1/8"	1"	1 1/8"	018
202009	22009625	1 1/4"	1 1/8"	1 1/4"	020

part no.		size closed I.D.	bundle lines O.D.		SAE size
1/2" width	5/8" width		min.	max.	
202209	22209625	1 3/8"	1 1/4"	1 3/8"	022
202409	22409625	1 1/2"	1 3/8"	1 1/2"	024
202609	22609625	1 5/8"	1 1/2"	1 5/8"	026
202809	22809625	1 3/4"	1 5/8"	1 3/4"	028
203009	23009625	1 7/8"	1 3/4"	1 7/8"	030
203209	23209625	2"	1 7/8"	2"	032
204009	24009625	2 1/2"	2 3/8"	2 1/2"	040
204809	24809625	3"	2 7/8"	3"	048
205009	25009625	3 1/2"	3 3/8"	3 1/2"	056

Min qty: 10



Vinyl-Coated SPCC-5D Steel Clamps - 1/2" metal width

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	size closed I.D.	bundle O.D.		SAE size
		min.	max.	
2904*	1/4"	3/16"	1/4"	004
2906*	3/8"	1/4"	3/8"	006
2908*	1/2"	3/8"	1/2"	008
2910*	5/8"	1/2"	5/8"	010
2912*	3/4"	5/8"	3/4"	012
2914*	7/8"	3/4"	7/8"	014
2916*	1"	7/8"	1"	016
2918	1 1/8"	1"	1 1/8"	018
2920*	1 1/4"	1 1/8"	1 1/4"	020
2922	1 3/8"	1 1/4"	1 3/8"	022

part no.	size closed I.D.	bundle O.D.		SAE size
		min.	max.	
2924	1 1/2"	1 3/8"	1 1/2"	024
2926	1 5/8"	1 1/2"	1 5/8"	026
2928	1 3/4"	1 5/8"	1 3/4"	028
2930	1 7/8"	1 3/4"	1 7/8"	030
2932	2"	1 7/8"	2"	032
2940	2 1/2"	2 3/8"	2 1/2"	040
2942	3"	2 7/8"	3"	048

* Min qty: 100; all others min qty: 10



Carbon Steel Plated Loom Clamps

Carbon steel plated cable clamps with zinc/gold chromate have a removable EPDM jacket. Mounting hole is .406" with .375" stud. Carbon steel has a higher ductility and is less susceptible to fatigue.

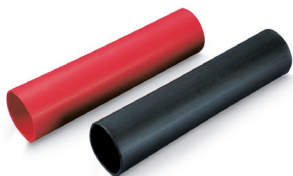
⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	1/2" width	5/8" width	size closed I.D.	bundle lines O.D.		SAE size
				min.	max.	
20403500	200403	1/4"	3/16"	1/4"	004	
20603500	200603	3/8"	1/4"	3/8"	006	
20803500	200803	1/2"	3/8"	1/2"	008	
21003500	201003	5/8"	1/2"	5/8"	010	
21203500	201203	3/4"	5/8"	3/4"	012	
21403500	201403	7/8"	3/4"	7/8"	014	
21603500	201603	1"	7/8"	1"	016	
21803500	201803	1 1/8"	1"	1 1/8"	018	
22003500	202003	1 1/4"	1 1/8"	1 1/4"	020	

part no.	1/2" width	5/8" width	size closed I.D.	bundle lines O.D.		SAE size
				min.	max.	
22203500	202203	1 3/8"	1 1/4"	1 3/8"	022	
22403500	202403	1 1/2"	1 3/8"	1 1/2"	024	
22603500	202603	1 5/8"	1 1/2"	1 5/8"	026	
22803500	202803	1 3/4"	1 5/8"	1 3/4"	028	
23003500	203003	1 7/8"	1 3/4"	1 7/8"	030	
23203500	203203	2"	1 7/8"	2"	032	
23503500	203503	2 1/2"	2 3/8"	2 1/2"	040	
23603500	203603	3"	2 7/8"	3"	048	
23803500	203803	3 1/2"	3 3/8"	3 1/2"	056	

Min qty: 10

Adhesive Lined Heat Shrink



Dual Wall 3:1 Heat Shrink – Adhesive-lined, Semi Rigid

Complies with the requirements of MIL-25053/4. Class 3 shrink temperature is 100°C (212°F). Operating temperature range is -45°C to 125°C (-49°F to 257°F). UL component certified.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

color		length	pkg. qty	nom. size	I.D.	I.D. after recovery maximum	wall thickness after recovery nominal		
red	black								
—	91062005	1 ¼"	100	⅜"	.1875"	.063"	.043"		
—	91062505			¼"	.250"	.078"	.047"		
—	91063005			⅜"	.375"	.118"	.053"		
—	91063505			½"	.500"	.157"	.055"		
—	96061505	6"	10	⅛"	.125"	.032"	.038"		
—	96062005			⅜"	.1875"	.063"	.043"		
—	96062505			¼"	.250"	.078"	.047"		
—	96063005			⅜"	.375"	.118"	.053"		
—	96063505			½"	.500"	.157"	.055"		
—	96064505			¾"	.750"	.315"	.065"		
—	96065505			1"	1.000"	.400"	.075"		
—	96066505			1 ½"	1.500"	.598"	.083"		
98061501	98061505			4'	1	⅛"	.125"	.032"	.038"
98062001	98062005					⅜"	.1875"	.063"	.043"
98062501	98062505	¼"	.250"			.078"	.047"		
98063001	98063005	⅜"	.375"			.118"	.053"		
98063501	98063505	½"	.500"			.157"	.055"		
98064501	98064505	¾"	.750"			.315"	.065"		
98065501	98065505	1"	1.000"			.400"	.075"		
98066501	98066505	1 ½"	1.500"			.598"	.083"		
98001501	98001505	1,000' spool				⅛"	.125"	.036"	.900"
98002001	98002005	500' spool				⅜"	.1875"	.063"	1.05"
98002501	98002505	500' spool		¼"	.25"	.078"	1.25"		
98003001	98003005	200' spool		⅜"	.375"	.118"	1.45"		
98003501	98003505	200' spool		½"	.5"	.157"	1.70"		
98004501	98004505	100' spool		¾"	.75"	.315"	1.95"		



Dual Wall 3:1 Heat Shrink Kit – Over-Armor™

UL listed and meets MIL-DTL-23053/4.

⚠ WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov.

part no.	case size	pieces
554	7" x 3" x 1 ½"	30

part no. 554 contents	qty
98061505 3:1 dual wall adhesive-lined ⅛" black 6"	5
98061501 3:1 dual wall adhesive-lined ⅛" red 6"	5
98062505 3:1 dual wall adhesive-lined ¼" black 6"	5
98062501 3:1 dual wall adhesive-lined ¼" red 6"	5
98063505 3:1 dual wall adhesive-lined ½" black 6"	5
98063501 3:1 dual wall adhesive-lined ½" red 6"	5



Dual Wall 3:1 Heat Shrink Kit – The Brute™

UL listed and meets MIL-DTL-23053/4.

⚠ WARNING: Cancer and Reproductive Harm
- www.P65Warnings.ca.gov.

part no.	case size	pieces
551	11" x 6 ¾" x 1 ¾"	66

part no. 551 contents	qty
98061505 3:1 dual wall adhesive-lined ⅛" black 6"	20
98061501 3:1 dual wall adhesive-lined ⅛" red 6"	10
98062505 3:1 dual wall adhesive-lined ¼" black 6"	10
98062501 3:1 dual wall adhesive-lined ¼" red 6"	10
98063505 3:1 dual wall adhesive-lined ½" black 6"	4
98063501 3:1 dual wall adhesive-lined ½" red 6"	4
98064505 3:1 dual wall adhesive-lined ¾" black 6"	2
98064501 3:1 dual wall adhesive-lined ¾" red 6"	2
98065505 3:1 dual wall adhesive-lined 1" black 6"	2
98065501 3:1 dual wall adhesive-lined 1" red 6"	2

Battery Accessories



Special Note

Please specify a color by applying a 2-digit suffix to the part number (corresponding to your color preference):

01 – red **05** – black

Example: when ordering a 25-ft spool of 6-Ga Battery Cable, **56162**, in red please order **5616201**.

Battery Cable – Type SGX

Battery cable is manufactured to SAE J-1127 specification. Rated to 60V DC. RoHS. Please specify color with a 2-digit suffix; see special note box below.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	ga.	length	lbs per spool/coil	spool dia.
56162	6	25'	3	coil
56142	4		4	
56122	2		6	
56112	1		8	
56102	1/0		10	
56002	2/0		12	
56302	3/0		16	
56402	4/0		19	
56161	6		100'	
56141	4	15		10 1/2"
56121	2	25		10 1/2"
56111	1	31		10 1/2"
56101	1/0	38		10 1/2"
56001	2/0	46		10 1/2"
56301	3/0	62		10 1/2"
56401	4/0	76		11 1/2"
56168	6	500'		54
56148	4		77	16"
56128	2		124	16"

part no.	ga.	length	lbs per spool/coil	spool dia.
56118	1	500'	124	16"
56108	1/0		189	16"
56008	2/0		229	18"
56308	3/0		311	24"
56408	4/0		379	24"

specification guide

gauge	stranding	nominal O.D.
6	7x19/.0137	0.310"
4	7x19/.0170	.0375"
2	7x19/.0218	0.438"
1	7x19/.0243	0.48"
1/0	19x54/.010	0.52"
2/0	19x66/.010	0.56"
3/0	19x85/.010	0.641"
4/0	19x108/.010	0.706"

All spool weights (lbs per spool) are approximate.



Special Note

Please specify a color by applying a 2-digit suffix to the part number (corresponding to your color preference):

01 – red **05** – black

Example: when ordering a 25-ft spool of 6-Ga welding cable, **57162**, in red please order **5716201**.

Welding Cable – Class K

Welding cable is manufactured to meet the National Electrical Code article 63 electric welders. Rated to 600V AC.

Please specify color with a 2-digit suffix; see special note box below.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	ga.	length	lbs per spool/coil	spool dia.
57162	6	25'	3	coil
57142	4		4	
57122	2		6	
57112	1		8	
57102	1/0		11	
57002	2/0		12	
57302	3/0		16	
57402	4/0		19	
57161	6		100'	
57141	4	18		10 1/2"
57121	2	26		10 1/2"
57111	1	39		10 1/2"
57101	1/0	47		10 1/2"
57001	2/0	56		10 1/2"
57301	3/0	68		10 1/2"
57401	4/0	85		10 1/2"
57168	6	500'		56
57148	4		77	12 1/2"
57128	2		122	14 3/4"

part no.	ga.	length	lbs per spool/coil	spool dia.
57118	1	500'	159	17 3/4"
57108	1/0		196	17 3/4"
57008	2/0		241	24"
57308	3/0		300	24"
57408	4/0		378	24"

specification guide

gauge	stranding	nominal O.D.
6	7/37/0.010	.320"
4	7/52/0.010	.348"
2	12/52/0.010	.420"
1	12/65/0.010	.503"
1/0	19/52/0.010	.533"
2/0	19/65/0.010	.586"
3/0	19/81/0.010	.625"
4/0	19/106/0.010	.720"

All spool weights (lbs per spool) are approximate.



Tinned Copper Wire – Marine Grade

Tinned copper wire is manufactured to meet or exceed UL1426, US Coast Guard Charterboat (CRF Title 46), ABYC and CSA TEW standards. Rated to 600V.

Please specify color with a 2-digit suffix; see special note box below.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Special Note

Please specify a color by applying a 2-digit suffix to the part number (corresponding to your color preference):

01 – red **05** – black

Example: when ordering a 100-ft spool of 18-Ga Tinned wire, **47181**, in red please order **4718101**.

part no.	ga.	reel size	lbs per spool	spool dia.
47122	12	25'	0.5	4"
47121		100'	3	3½"
47125		400'	12	10½"
47120#		1000'	30	10½"

part no.	ga.	reel size	lbs per spool	spool dia.
47102	10*	25'	1.3	4"
47101		100'	5	6½"
47105		500'	22	10½"
47100		1000'	43	10½"

* Only available in: red & black.

specification guide		
AWG size	conductor / stranding	nominal O.D.
12 ga	65/30	.156"
10 ga	105/30	.219"

Tin Plated Copper Lugs

Reduce corrosion caused by harsh environments. They can be installed by crimping or soldering. Rated up to 600V. UL.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



part no.	stud	amp	cable size
916505	1/4"	40	6 ga
916515		70	4 ga
916525		90	2 ga
916535		125	1 ga
916545		150	1/0 ga
916555	5/16"	175	2/0 ga
916605		40	6 ga
916615		70	4 ga
916625		90	2 ga
916635		125	1 ga
916645		150	1/0 ga
916655		175	2/0 ga
916665	225	3/0 ga	
916675	225	4/0 ga	

min. 5 pcs.

part no.	stud	amp	cable size
916805	3/8"	40	6 ga
916815		70	4 ga
916825		90	2 ga
916835		125	1 ga
916845		150	1/0 ga
916855		175	2/0 ga
916865		225	3/0 ga
916875	1/2"	225	4/0 ga
918815		70	4 ga
918825		90	2 ga
918835		125	1 ga
918845		150	1/0 ga
918855		175	2/0 ga
918865		225	3/0 ga
918875	225	4/0 ga	

Angled Copper Lugs

Install by crimping or soldering. Burr-free for a professional look. Rated up to 600V.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



45° Tin Plated Copper Lugs

part no.	stud	amp	cable size
928605	1/4"	40	6 ga
928615		70	4 ga
928625		90	2 ga
928635		125	1 ga
928645		150	1/0 ga
928655		175	2/0 ga
928665		225	3/0 ga
928675		225	4/0 ga

min. 5 pcs.

part no.	stud	amp	cable size
928805	3/8"	40	6 ga
928815		70	4 ga
928825		90	2 ga
928835		125	1 ga
928845		150	1/0 ga
928855		175	2/0 ga
928865		225	3/0 ga
928875		225	4/0 ga

90° Tin Plated Copper Lugs

part no.	stud	amp	cable size
929605	5/16"	40	6 ga
929615		70	4 ga
929625		90	2 ga
929635		125	1 ga
929645		150	1/0 ga
929655		175	2/0 ga
929665		225	3/0 ga
929675		225	4/0 ga

min. 5 pcs.

part no.	stud	amp	cable size
929805	3/8"	40	6 ga
929815		70	4 ga
929825		90	2 ga
929835		125	1 ga
929845		150	1/0 ga
929855		175	2/0 ga
929865		225	3/0 ga
929870		225	4/0 ga



FUSION® Copper Lugs – Standard

Pre-measured and loaded with correctly metered flux and solder in a tin plated copper connector. Clamp connector into a vise, strip cable to expose 7/8" of wire, heat, insert, then cool to solidify. Heat shrink recommended to provide additional corrosion resistance.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	stud	cable size	part no.	stud	cable size
91912114	1/4"	2 & 1 ga	91912138	3/8"	2 & 1 ga
91911014		1/0 ga	91911038		1/0 ga
91912014		2/0 ga	91912038		2/0 ga
91913014		3/0 ga	91913038		3/0 ga
91914014		4/0 ga	91914038		4/0 ga
91912156	5/16"	2 & 1 ga	91912112	1/2"	2 & 1 ga
91911056		1/0 ga	91911012		1/0 ga
91912056		2/0 ga	91912012		2/0 ga
91913056		3/0 ga	91913012		3/0 ga
91914056		4/0 ga	91914012		4/0 ga



FUSION® Copper Lugs– Heavy Wall

Pre-measured and loaded with correctly metered flux and solder in a tin plated copper connector. Simply clamp connector into a vise, strip cable to expose 7/8" of wire, heat and insert, then cool to solidify. Heat shrink recommended to provide additional corrosion resistance.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	stud	cable size	part no.	stud	cable size
91926438	3/8"	6 & 4 ga	91926412	1/2"	6 & 4 ga
91922138		2 & 1 ga	91922112		2 & 1 ga
91921038		1/0 ga	91921012		1/0 ga
91922038		2/0 ga	91922012		2/0 ga
91923038		3/0 ga	91923012		3/0 ga
91924038		4/0 ga	91924012		4/0 ga



FUSION® Butt Splices

Pre-measured and loaded with correctly metered flux and solder in a tin plated copper connector. Simply clamp connector into a vise, strip cable to expose 7/8" of wire, heat and insert, then cool to solidify. Heat shrink recommended to provide additional corrosion resistance.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	cable size
91910100	1/0 ga
91910200	2/0 ga
91910300	3/0 ga
91910400	4/0 ga

Copper Die Cast Battery Terminals

Terminals can be crimped or soldered. All size terminals can be crimped with crimping tool 990000. Includes 1 1/4" bolts. Rated up to 48V DC.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Straight Barrel

part no.	cable size	polarity
909105	6 ga	pos. & neg.
909115	4 ga	pos. & neg.
909125	2-1 ga	positive
909135	2-1 ga	negative
909145	1/0 ga	positive
909155	1/0 ga	negative
909165	2/0 ga	positive
909175	2/0 ga	negative
909185	3/0 ga	positive
909195	3/0 ga	negative
909485	4/0 ga	positive
909495	4/0 ga	negative

Parallel (Flag)

part no.	cable size	polarity
909205	1/0 ga	positive
909215	1/0 ga	negative
909225	2/0 ga	positive
909235	2/0 ga	negative

Elbow

part no.	cable size	polarity	direction
909425	1/0 ga	positive	left
909435	1/0 ga	negative	
909445	2/0 ga	positive	
909455	2/0 ga	negative	right
909325	1/0 ga	positive	
909335	1/0 ga	negative	
909345	2/0 ga	positive	
909355	2/0 ga	negative	

Pure Copper RoHS Battery Terminals

Environmentally friendly, 100% copper battery terminals. Manufactured with C11000 ETP copper and completely lead free and RoHS Compliant, making them exempt from CA Proposition 65 Requirements. Tin plated for corrosion resistance and color and die coded for crimp settings as well as polarity. Exceed SAE Standard J-1811, and provide the highest conductivity rating compared with any competing copper design. Chamfered barrels allow for easy cable insertion. Supplied with installed tin plated nuts & bolts.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Straight Barrel

part no.	cable size	polarity
918120	6 ga	negative
918121	6 ga	positive
918123	4 ga	negative
918124	4 ga	positive
918128	4 ga	pos. & neg.
918143	1-2 ga	negative
918144	1-2 ga	positive
918163	1/0 ga	negative
918164	1/0 ga	positive
918173	2/0 ga	negative
918174	2/0 ga	positive
918183	3/0 ga	negative
918184	3/0 ga	positive
918193	4/0 ga	negative
918194	4/0 ga	positive

Parallel (Flag)

part no.	cable size	polarity
918463	1/0 ga	negative
918464	1/0 ga	positive
918473	2/0 ga	negative
918474	2/0 ga	positive
918483	3/0 ga	negative
918484	3/0 ga	positive
918493	4/0 ga	negative
918494	4/0 ga	positive

Elbow

part no.	cable size	polarity	direction
918363	1/0 ga	negative	left
918364	1/0 ga	positive	
918373	2/0 ga	negative	
918374	2/0 ga	positive	
918383	3/0 ga	negative	
918384	3/0 ga	positive	
918393	4/0 ga	negative	
918394	4/0 ga	positive	
918263	1/0 ga	negative	right
918264	1/0 ga	positive	
918273	2/0 ga	negative	
918274	2/0 ga	positive	
918283	3/0 ga	negative	
918284	3/0 ga	positive	
918293	4/0 ga	negative	
918294	4/0 ga	positive	

FUSION® Battery Terminals

FUSION® battery terminals provide consistent quality, faster installation, less confusion and an overall reduced cost of installation process. Fusion® terminals and lugs come loaded with pre-measured flux and solder in a tin plated copper connector. Simply clamp connector into a vise, strip cable to expose 7/8" of wire, heat and insert, then cool to solidify.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Straight Barrel

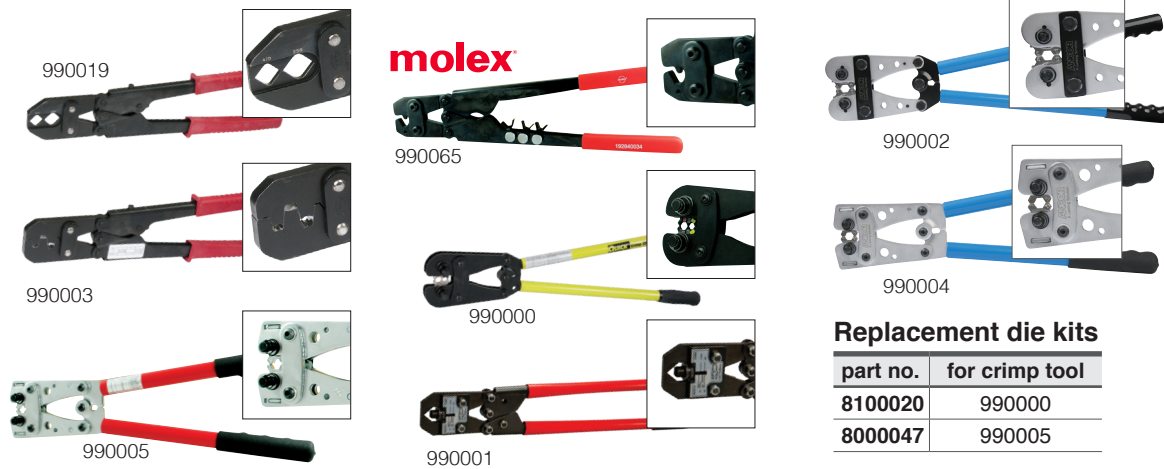
part no.	cable size	polarity
91940164	6 & 4 ga	positive
91940121	2 & 1 ga	
91940110	1/0 ga	
91940120	2/0 ga	
91940130	3/0 ga	
91940140	4/0 ga	
91940264	6 & 4 ga	negative
91940221	2 & 1 ga	
91940210	1/0 ga	
91940220	2/0 ga	
91940230	3/0 ga	
91940240	4/0 ga	

Parallel (Flag)

part no.	cable size	polarity
91941121	2 & 1 ga	positive
91941110	1/0 ga	
91941120	2/0 ga	
91941130	3/0 ga	
91941140	4/0 ga	
91941221	2 & 1 ga	negative
91941210	1/0 ga	
91941220	2/0 ga	
91941230	3/0 ga	
91941240	4/0 ga	

Elbow

part no.	cable size	polarity	direction	
91944121	2 & 1 ga	positive	left	
91944110	1/0 ga			
91944120	2/0 ga			
91944130	3/0 ga			
91944140	4/0 ga			
91944221	2 & 1 ga	negative	left	
91944210	1/0 ga			
91944220	2/0 ga			
91944230	3/0 ga			
91944240	4/0 ga			
91945121	2 & 1 ga	positive	right	
91945110	1/0 ga			
91945120	2/0 ga			
91945130	3/0 ga			
91945140	4/0 ga	negative		right
91945221	2 & 1 ga			
91945210	1/0 ga			
91945220	2/0 ga			
91945230	3/0 ga	negative	right	
91945240	4/0 ga			



part no.	description	length	gauges	dies	crimp
990019	battery crimp tool	-	4/0-3/0	fixed	square
990021	battery crimp tool	-	3/0-2		
990023	battery crimp tool	-	1-8		
990065	molex heavy-duty crimping tool	18"	copper lugs 6-4/0 ga	3 replaceable	hex
990003	open barrel b-crimp crimping tool	19"	OEM open barrel 6-1	fixed	B shape
990002	Ancor heavy duty crimp tool	24.4"	8-4/0	revolving	hex
990004	Ancor heavy duty crimp tool	15.4"	6-1/0	revolving	hex
990005	junior crimping tool	15"	copper 8-1/0 ga	replaceable	hex
990000	die cast terminal crimping tool	26"	6-4/0 ga	replaceable	hex
990001	heavy duty v-style crimping tool	20"	battery terminal 4-4/0 ga copper lug 6-4/0 ga	fixed	"V" shape

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

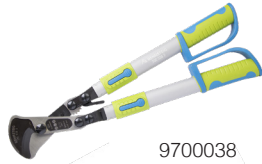


Battery Tools

part no.	size	description	handle length
9900400	5/16"	ratcheting side terminal wrench	4"
9900402	5/16"	ratcheting side terminal wrench	8"
9900404	-	battery terminal removal tool	-
9900406	10 mm	ratcheting side terminal wrench	4"
9900408	-	battery terminal spreader pliers	-
9900410	-	angle nose battery pliers	-
9900412	-	battery maintenance kit with pouch	-

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Wire and Cable Cutters & Strippers



9700038



9707020

Rennsteig® Tools

Manufactured in Germany.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

part no.	description	length	strip/cut/gauges	crimp type	use with	Rennsteig part no.
9700016	compact cable cutter D15 w/ spring action	6 11/16"	1/0 Ga	—	—	700 016 3
9700038	ratcheting cable shears, adjustable handle from 15-1/2" to 23-1/2"	30 5/16"	up to 550 MCM	—	—	700 038 3
9708212	wire stripper	7 7/8"	20-10 Ga	—	—	708 212
9707020	multistrip 10 self-adjusting wire stripper	7 11/16"	32-8 Ga	—	—	707 020

Accessories

Insulators

Battery terminal insulators provide added protection against corrosion and harmful chemicals on battery and alternator cables. They provide improved appearance and prolonged cable life. RoHS.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.



Straight Insulators

part no.	gauge	color
901645	8-6	red
901655	8-6	black
901715	1/0	red
901725	1/0	black
901735	2/0	red
901745	2/0	black



Marine Insulators

part no.	gauge	color
901555	6	red
901565	6	black
901575	3/0	red
901585	3/0	black



3/8" Stud Terminal Insulators

part no.	gauge	color
901915	2-2/0	red
901925	2-2/0	black
901935	2/0-3/0	red
901945	2/0-3/0	black



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