Introduction

Product Facts

- **Product available in temperature ranges of 500°F [260°C], 550°F [288°C], 650°F [343°C] and 1200°F [649°C]**
- **Product employs the famous "W" and "C" crimp**
- **Wide range of wire sizes**
- **Complete line of related application tooling**
- **Accommodates solid and/or stranded conductors**

Heat…extreme heat… searing temperatures up to 1200°F [649°C]. This is one of the most challenging environments that electrical/electronic circuitry has ever entered.

If heat is an unavoidable dimension in your circuit design and production, this product is an important ally. In this line of STRATO-THERM terminals and splices, you'll find high temperature circuit hardware. You'll also find solutions to other more familiar circuit problems such as vibration, corrosion and flash-over, when they occur at high temperatures.

Different types of high temperature terminals and splices found in this catalog are as follows:

PIDG Terminals and Splices, and Pre-Insulated Spare Wire Caps — 550°F [288°C] Range

PIDG Insulation Restriction Terminals — 550°F [288°C] Range

Post-Insulated Terminals and Splices — 550°F [288°C] Range

Uninsulated Terminals and Splices — 650°F [343°C] Range

Uninsulated Terminals and Splices — 1200°F [649°C] Range

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Revised 9-14

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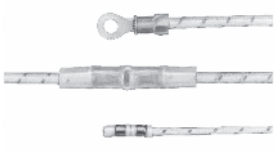
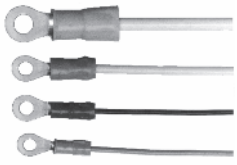
Introduction (Continued)

PIDG Terminals and Splices, and Pre-Insulated Spare Wire Caps 550°F [288°C] Range



Designed for reliable performance up to 550°F [288°C], this line of ring-tongue terminals, butt splices and spare wire caps features a pre-insulation sleeve of PTFE TFE insulation material. A special funnel entry feature has been added to promote easy entry and proper seating of wire. The body is copper with a choice of gold over nickel plating or nickel plating. The terminal and splice barrel accommodates stranded wire conductors only. The spare wire caps are designed for unstripped wire.

PIDG Insulation Restriction Terminals 550°F [288°C] Range



These pre-insulated insulation restriction terminals better prevent the insulation of thin-wall insulation wire from entering the terminal's wire crimp area during the crimping process.

Designed for reliable performance up to 550°F [288°C], these terminals feature a pre-insulation sleeve of PTFE (TFE) insulation material.

Because of features such as a one-piece constructed inner sleeve and a wide funnel entry design which facilitates wire entry, standard STRATO-THERM PIDG tooling may be used to terminate this product.

Post-Insulated Terminals and Splices 550°F [288°C] Range

The temperature range of these terminals and splices is 550°F [288°C] for nickel plating and gold over nickel plated copper, and 500°F [260°C] for silver plating, These terminals and splices accommodate solid and/or stranded conductors.

Uninsulated Terminals and Splices 650°F [343°C] Range

These terminals and splices are available with and without wire insulation support. Both types are manufactured from electrolytic copper, plated with nickel. In the insulation support type, the support sleeve is fabricated from nickel-silver alloy. Both types accommodate solid or stranded conductors in various combinations. Wire size range is listed in the tabular data section.

Uninsulated Terminals and Splices 1200°F [649°C] Range

Nickel material is used for the body of both the terminal and splice. They are available with or without wire insulation support sleeve of nickel-silver alloy material. Accommodating either solid or stranded conductors in different combinations, these terminals and splices are made to cover a broad wire size range, listed in the tabular data section.

Terminals made of alumel and chromel material with nickel-silver alloy sleeves are available for thermocouple applications. When using either alumel or chromel conductors, a terminal of the same material should be selected.

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Dimensions are shown for reference purposes only. Specifications subject to change.

Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

Introduction (Continued)

Ordering Information

All terminals and splices are listed according to wire size and type of terminal or splice. If the part number of the terminal or splice is known, refer to the Numerical Index, at the back of this catalog, for page location of tabular data.

In the Tabular Data Section, part numbers are available in either loose piece or tape mounted form.

When ordering tape mounted part numbers, specify the terminal or splice part number, the total quantity of parts desired (if applicable). The chart to the right lists by wire size the type of packaging available and the quantity per package.

Wire Range	Standard Quantities	
AWG	Loose Piece	Tape Mounted
26 – 14	1,000	5,000
26 – 22	—	2,500
12 – 10	500	2,500
8, 6, 4	100	—
2, 1/0	50	—

Note: Package quantities may vary with specific part numbers.

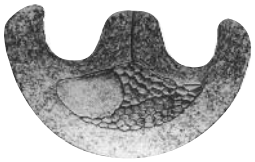
The Crimp

All five types of STRATO-THERM terminals and splices provide optimum corrosion and vibration resistance plus outstanding tensile characteristics.

All types, except the STRATO-THERM PIDG terminals, splices and pre-insulated spare wire caps, employ the famous “W” crimp which creates the precise electromechanical properties necessary for solid and/or stranded conductor combinations. A proper crimp will provide a uniform attachment. When mechanical pressure is applied to the terminal barrel, the wire inside is forced into the serrations or dimples of the barrel. Shown are four typical photomacrographs of the “W” crimp, illustrating the results of crimping various conductor combinations. In each case, the action of the crimp has compressed the conductors and the barrel into a homogenous mass.

“W” Crimp

One Solid

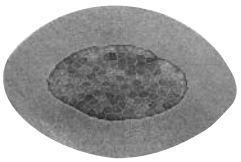


One Solid
Two Stranded

Two Solid

STRATO-THERM PIDG terminals and splices employ the equally reliable confined “C” crimp plus multiple position insulation support crimp for today’s smaller insulated wires. This “C” crimp is especially suited to crimping the terminal barrel and insulation sleeve to stranded wire conductors. The photomacrograph shows the results of “C” crimping. Virtually the same electromechanical properties are obtained as in the “W” crimp. Pre-insulated spare wire caps and post-insulated splices are crimped with an “O” crimp configuration.

Confined C



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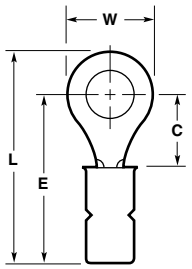
Insulated Terminals and Splices

PIDG (Pre-Insulated DIAMOND GRIP) Ring Tongue Terminals



Temperature Rating, Material and Finish

Insulation — PTFE

Terminal Body — Copper per ASTM B152

Plating — Nickel per QQ-N-290, 550°F [288°C]. Gold per MIL-G-45204 over Nickel per QQ-N-290 500°F [260°C]

Metallic Sleeve — Copper per ASTM B152

Plating — Nickel per QQ-N-290, 550°F [288°C]

Related Product Data

Application Tooling — pages 10-21 and 10-22

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Body Plating[1]	Part Number Loose Piece
18-16 1,600-2,800 [0.81-1.42]	**.033** 0.84	4	**.218** 5.54	**.156** 3.96	**.560** 14.22	**.672** 17.07	Orange	**.135** 3.43	Nickel	50834
		8 M4	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.844** 21.44	Orange	**.135** 3.43	Nickel	50836
		10	**.312** 7.92	**.281** 7.14	**.685** 17.40	**.844** 21.44	Orange	**.135** 3.43	Nickel	50836-1
12-10 5,180-13,100 [2.62-6.64]	**.042** 1.07	8 M4	**.375** 9.53	**.302** 7.67	**.893** 22.68	**1.083** 27.51	Black	**.214** 5.44	Nickel	50845-1
		10	**.375** 9.53	**.302** 7.67	**.893** 22.68	**1.083** 27.51	Black	**.214** 5.44	Nickel	50845-2
		1/4 M6	**.531** 13.49	**.437** 11.10	**1.012** 25.70	**1.280** 32.51	Black	**.214** 5.44	Nickel	50846

[1] Nickel plated parts are to be used with nickel plated wire. Gold plated parts are to be used with silver plated wire.
Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

Pre-Insulated Spare Wire Caps (For Unstripped Wire)

Tool Part Number 69272-1

Temperature Rating, Material and Finish

Insulation — PTFE

Ring — Copper per ASTM B152

Plating — Nickel per QQ-N-290, 550°F [288°C]

Related Product Data

Application Tooling — shown to the right

Wire Insulation Diameter Range	Dimension L Max.	Ring Color	Tool Color Guide	Part Number
.075 – .087 1.91 – 2.21	**.500** 12.70	Black and Orange	Orange	328859

Uninsulated Terminals and Splices

SOLISTRAND Heat Resistant Ring Tongue Terminals

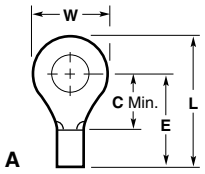
Temperature Rating, Material and Finish

Terminal Body — Copper per ASTM B152

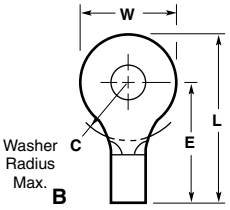
Plating — Nickel per QQ-N-290, 650°F [343°C]

Related Product Data

Application Tooling — pages 10-21 and 10-22



Non-Insulation Support



Non-Insulation Support (Wire Range 2 & 1/0)

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions W	Dimensions C	Dimensions E Max.	Dimensions L Max.	Part Number Loose Piece
22-16 509-3,260 [0.26-1.65]	.033 0.84	6 M3.5	A	.218 5.54	.156 3.96	.337 8.56	.449 11.40	322797
			A	.281 7.14	.250 6.35	.436 11.07	.574 14.58	323219
		8 M4	A	.281 7.14	.250 6.35	.436 11.07	.574 14.58	322798
		10	A	.281 7.14	.250 6.35	.436 11.07	.574 14.58	322799
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	10	A	.343 8.71	.281 7.14	.462 11.73	.636 16.15	322695*
		1/4 M6	A	.469 11.91	.437 11.10	.618 15.70	.855 21.72	322733
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	10	A	.375 9.53	.302 7.67	.575 14.61	.765 19.43	323062
		5/16 M8	A	.531 13.49	.468 11.89	.736 18.69	1.004 25.50	323064
8 13,100-20,800 [6.64-10.5]	.051 1.30	10	A	.406 10.31	.359 9.12	.743 18.87	.949 24.10	323165
		1/4 M6	A	.469 11.91	.359 9.12	.696 17.68	.933 23.70	323166
		5/16 M8	A	.562 14.27	.406 10.31	.790 20.07	1.074 27.28	323167
6 20,800-33,100 [10.5-16.8]	.060 1.52	10	A	.468 11.89	.531 13.49	.931 23.65	1.168 29.67	323169
		3/8	A	.625 15.88	.531 13.49	.931 23.65	1.246 31.65	323172
4 33,100-52,600 [16.8-26.7]	.073 1.85	1/4 M6	A	.500 12.70	.437 11.10	.946 24.03	1.199 30.45	323173
2 52,600-83,700 [26.7-42.4]	.073 1.85	3/8	B	.625 15.88	.540 13.72	1.212 30.78	1.527 38.79	323177

*Available in small packaging quantities.

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Revised 9-14

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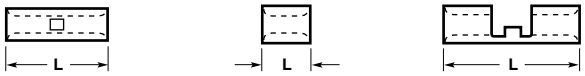
Dimensions are in millimeters unless otherwise specified.

USA: +1 800 522 6752
Asia Pacific: +86 0 400 820 6015
UK: +44 800 267 666

For additional support numbers please visit www.te.com

Uninsulated Terminals and Splices (Continued)

SOLISTRAND Heat Resistant Splices



Style-A Non-Insulation Support Butt Splice | **Style-B Non-Insulation Support Parallel Splice** | **Style-C Non-Insulation Support Butt Splice**

Temperature Rating, Material and Finish

Splice Body — Copper per ASTM B152

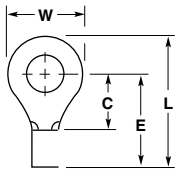
Plating — Nickel per QQ-N-290, 650°F [343°C]

Related Product Data

Application Tooling — pages 10-21 and 10-22

Wire Size Circular Mils [mm²]	Material Thickness Max.	Style	Dimensions L Max.	Dimensions ID Min.	Dimensions OD Max.	Part Number Loose Piece
22-16 509-3,260 [0.26-1.65]	.033 0.84	A	.578 14.68	.061 1.55	.141 3.58	323796
		B	.301 7.65	.061 1.55	.141 3.58	323030
		C	.591 15.01	.061 1.55	.141 3.58	322822
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	A	.567 14.40	.085 2.16	.165 4.19	323795
		B	.301 7.65	.085 2.16	.165 4.19	323794
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	A	.565 14.35	.129 3.28	.226 5.74	323755
		B	.333 8.46	.129 3.28	.226 5.74	323754
8 13,100-20,800 [6.64-10.5]	.051 1.30	B	.375 9.53	.172 4.37	.296 7.52	2-34318-1

SOLISTRAND High Temperature Ring Tongue Terminals



Non-Insulation Support

Temperature Rating and Material

Terminal Body — Nickel per ASTM B162, 1200°F [649°C]

Related Product Data

Application Tooling — pages 10-21 and 10-22

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Color Code	Stud Size	Dimensions W	Dimensions C Min.	Dimensions E Max.	Dimensions L Max.	Part Number Loose Piece
22-16 509-3,260 [0.26-1.65]	.033 0.84	Orange	4	.218 5.54	.156 3.96	.337 8.56	.449 11.40	321884
			5 M3	.218 5.54	.156 3.96	.337 8.56	.449 11.40	321885
			6 M3.5	.281 7.14	.250 6.35	.431 10.95	.574 14.58	321889*
			8 M4	.281 7.14	.250 6.35	.431 10.95	.574 14.58	321890*
			10	.281 7.14	.250 6.35	.431 10.95	.574 14.58	321891*
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	Orange	6 M3.5	.250 6.35	.171 4.34	.352 8.94	.480 12.19	322329
			8 M4	.343 8.71	.281 7.14	.462 11.73	.636 16.15	322334*
			10	.343 8.71	.281 7.14	.462 11.73	.636 16.15	322335*
			1/4 M6	.468 11.89	.437 11.10	.618 15.70	.855 21.72	322339

*Available in small packaging quantities.

Uninsulated Terminals and Splices (Continued)

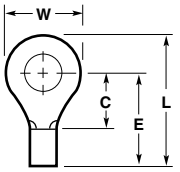
SOLISTRAND High Temperature Ring Tongue Terminals

Temperature Rating and Material

Terminal Body — Nickel per ASTM B162, 1200°F [649°C]

Related Product Data

Application Tooling — pages 10-21 and 10-22



Non-Insulation Support

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Color Code	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Part Number Loose Piece
12-10 5,180-13,100 [2.62-6.64]	**.042** 1.07	Orange	8 M4	**.375** 9.53	**.281** 7.14	**.549** 13.94	**.739** 18.77	323745*
			10	**.375** 9.53	**.281** 7.14	**.549** 13.94	**.739** 18.77	323680*
			1/4 M6	**.531** 13.49	**.468** 11.89	**.736** 18.69	**1.004** 25.50	323683*
8 13,100-20,800 [6.64-10.5]	**.051** 1.30	Orange	10	**.406** 10.31	**.359** 9.12	**.743** 18.87	**.949** 24.10	328822

*Available in small packaging quantities.

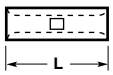
SOLISTRAND High Temperature Splices

Temperature Rating and Material

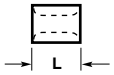
Splice Body — Nickel per ASTM B162, 1200°F [649°C]

Related Product Data

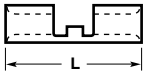
Application Tooling — pages 10-21 and 10-22



Style-A Non-Insulation Support Butt Splice



Style-B Non-Insulation Support Parallel Splice



Style-C Non-Insulation Support Butt Splice

Wire Size Circular Mils [mm²]	Material Thickness Max.	Color Code	Style	Dimensions L Max.	ID Min.	OD Max.	Part Number Loose Piece
22-16 509-3,260 [0.26-1.65]	**.033** 0.84	Orange	A	**.578** 14.68	**.061** 1.55	**.141** 3.58	322324*
			B	**.301** 7.65	**.061** 1.55	**.141** 3.58	322326
16-14 2,050-5,180 [1.04-2.62]	**.033** 0.84	Orange	A	**.567** 14.40	**.085** 2.16	**.165** 4.19	322345
			B	**.301** 7.65	**.085** 2.16	**.165** 4.19	322347
			C	**.529** 13.44	**.085** 2.16	**.165** 4.19	323878
12-10 5,180-13,100 [2.62-6.64]	**.042** 1.07	Orange	A	**.567** 14.40	**.129** 3.28	**.226** 5.74	323696*
			B	**.333** 8.46	**.129** 3.28	**.226** 5.74	323672
			C	**.703** 17.86	**.129** 3.28	**.226** 5.74	323698

*Available in small packaging quantities.

Uninsulated Terminals and Splices (Continued)

DIAMOND GRIP Heat Resistant Ring Tongue Terminals

Temperature Rating, Material and Finish

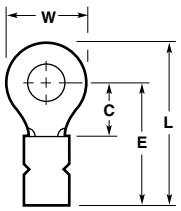
Terminal Body — Copper per ASTM B152

Plating — Nickel per QQ-N-290, 650°F [343°C]

Metallic Sleeve — Nickel Silver per ASTM B122

Related Product Data

Application Tooling — pages 10-21 and 10-22

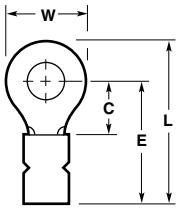


Insulation Support

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Wire Insulation Diameter Max.	Part Numbers Loose Piece	Part Numbers Tape Mounted
22-16 509-3,260 [0.26-1.65]	.033 0.84	4	.218 5.54	.156 3.96	.512 13.00	.624 15.85	.140 3.56	322363	—
		6 M3.5	.218 5.54	.156 3.96	.530 13.46	.645 16.38	.110 2.79	323151	—
			.281 7.14	.250 6.35	.611 15.52	.749 19.02	.140 3.56	323199	—
		8 M4	.281 7.14	.250 6.35	.611 15.52	.749 19.02	.140 3.56	322365	—
			.281 7.14	.250 6.35	.629 15.98	.770 19.56	.110 2.79	323152	—
		10	.281 7.14	.250 6.35	.611 15.52	.749 19.02	.140 3.56	322366	—
			.281 7.14	.250 6.35	.629 15.98	.770 19.56	.110 2.79	323153	—
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	10	.343 8.71	.281 7.14	.637 16.18	.811 20.60	.170 4.32	322375	—
			.343 8.71	.281 7.14	.659 16.74	.836 21.23	.130 3.30	323161	—
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6 M3.5	.375 9.53	.302 7.67	.841 21.36	1.034 26.26	.230 5.84	323066	—
		10	.375 9.53	.302 7.67	.841 21.36	1.034 26.26	.230 5.84	323068	323068-1
		1/4 M6	.531 13.49	.468 11.89	1.002 25.45	1.273 32.33	.230 5.84	323069	—

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

DIAMOND GRIP High Temperature Ring Tongue Terminals



Insulation Support

Temperature Rating and Material

Terminal Body — See table, 1200°F [649°C], Nickel per ASTM B162, Alumel —, Chromel —

Metallic Sleeve — Nickel Silver per ASTM B122

Related Product Data

Application Tooling — pages 10-21 and 10-22

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Body Material	Sleeve Color Code	Wire Insulation Diameter Max.	Part Number Loose Piece
22-16 509-3,260 [0.26-1.65]	.033 0.84	6 M3.5	.281 7.14	.250 6.35	.611 15.52	.749 19.02	Nickel	Orange	.140 3.56	321892
		8 M4	.281 7.14	.250 6.35	.611 15.52	.749 19.02	Nickel	Orange	.140 3.56	321893
			.312 7.92	.281 7.14	.637 16.18	.796 20.22	Nickel	Orange	.140 3.56	321897
			.312 7.92	.281 7.14	.637 16.18	.796 20.22	Chromel	Gray	.140 3.56	1-321897-0
		10	.281 7.14	.250 6.35	.611 15.52	.749 19.02	Nickel	Orange	.140 3.56	321894
			.312 7.92	.281 7.14	.637 16.18	.796 20.22	Nickel	Orange	.140 3.56	321898
			.312 7.92	.281 7.14	.637 16.18	.796 20.22	Alumel	Green	.140 3.56	1-321898-0
		1/4 M6	.468 11.89	.437 11.10	.793 20.14	1.031 26.19	Nickel	Orange	.140 3.56	322320

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

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Uninsulated Terminals and Splices (Continued)

DIAMOND GRIP High Temperature Ring Tongue Terminals

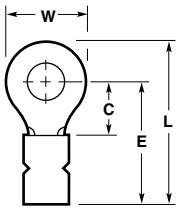
Temperature Rating and Material

Terminal Body — See table, 1200°F [649°C], Nickel per ASTM B162, Alumel —, Chromel —

Metallic Sleeve — Nickel Silver per ASTM B122

Related Product Data

Application Tooling — pages 10-21 and 10-22



Insulation Support

Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Body Material	Sleeve Color Code	Wire Insulation Diameter Max	Part Number Loose Piece
16-14 2,050-5,180 [1.04-2.62]	**.033** 0.84	8 M4	**.343** 8.71	**.281** 7.14	**.637** 16.18	**.811** 20.60	Nickel	Orange	**.170** 4.32	322337
		10	**.343** 8.71	**.281** 7.14	**.637** 16.18	**.811** 20.60	Nickel	Orange	**.170** 4.32	322338
12-10 5,180-13,100 [2.62-6.64]	**.042** 1.07	8 M4	**.375** 9.53	**.281** 7.14	**.815** 20.70	**1.008** 25.60	Nickel	Orange	**.230** 5.84	323749
			.375 9.53	**.281** 7.14	**.815** 20.70	**1.008** 25.60	Chromel	Gray	**.230** 5.84	2-323749-1
		10	**.375** 9.53	**.281** 7.14	**.815** 20.70	**1.008** 25.60	Nickel	Orange	**.230** 5.84	323750
			.375 9.53	**.281** 7.14	**.815** 20.70	**1.008** 25.60	Alumel	Green	**.230** 5.84	2-323750-1
		1/4 M6	**.531** 13.49	**.468** 11.89	**1.002** 25.45	**1.273** 32.33	Nickel	Orange	**.230** 5.84	323751

Note: "C" dimension applies from edge of metal wire barrel to center of stud hole.

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Sp G

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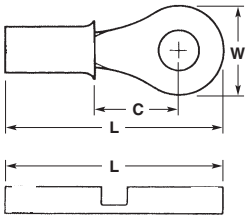
PIDG Terminals and Splices for Thin Wall Cables (Continued)

Low Temperature Range
(Continued)

Related Product Data
Application Tooling — page 10-22



Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Part Number
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C			
18-16	**.122** 3.10	M2.5	6	4	**.218** 5.54	**.680** 17.27	**.166** 4.22	Orange	**.055-.106** 1.40-2.70	152887
	.125 3.18	M2.5	6	4	**.240** 6.09	**.90** 22.86	**.360** 9.14			154927
	.145 3.68	M3	4	6	**.281** 7.14	**.805** 20.44	**.26** 6.60			152884
					.132 3.35	**.90** 22.86	**.37** 9.39			152885
					.218 5.54	**.680** 17.27	**.166** 4.22			152886
	.171 4.34	M4	3	8	**.312** 7.92	**.852** 21.64	**.291** 7.39			152882
					.281 7.14	**.805** 20.44	**.268** 6.80			152883
	.197 5.00	—	2	10	**.312** 7.92	**.852** 21.64	**.291** 7.39			152880
					.281 7.14	**.805** 20.44	**.26** 6.60			152881
	.265 6.73	M6	0	1/4	**.469** 11.91	**1.09** 27.58	**.447** 11.35			152879
	.328 8.33	M8	5/16	5/16	**.469** 11.91	**1.09** 27.58	**.447** 11.35			152878
	.390 9.90	M9.5	3/8	3/8	**.531** 13.48	**1.23** 31.14	**.556** 14.12			152877
14-12	**.199** 3.02	M2.5	6	4	**.240** 6.09	**.974** 24.73	**.447** 11.35	White	**.091-.126** 2.30-3.20	154930
					.250 6.35	**.711** 18.05	**.181** 4.59			152876
	.145 3.68	M3	4	6	**.343** 8.71	**.867** 22.02	**.291** 7.39			152874
					.250 6.35	**.711** 18.05	**.181** 4.59			152875
	.171 4.34	M4	3	8	**.343** 8.71	**.867** 22.02	**.291** 7.39			152873
	.197 5.00	—	2	10	**.343** 8.71	**.867** 22.02	**.291** 7.39			152872
	.265 6.73	M6	0	1/4	**.469** 11.91	**1.09** 27.58	**.447** 11.35			152871
	.328 8.33	M8	5/16	5/16	**.469** 11.91	**1.09** 27.58	**.447** 11.35			152870
	.390 9.90	M9.5	3/8	3/8	**.531** 13.48	**1.22** 31.04	**.556** 14.12			152869

Splices

Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Part Number
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C			
24-22	—	—	—	—	—	**1.125** 28.58	—	Black	**.035-.075** 0.90-1.90	153400
20	—	—	—	—	—	**1.135** 28.82	—	Purple	**.043-.079** 1.10-2.00	153401
18-16	—	—	—	—	—	**.996** 25.30	—	Orange	**.055-.106** 1.40-2.70	153402
14-12	—	—	—	—	—	**.996** 25.30	—	White	**.091-.126** 2.30-3.20	153403

mnNflnNmjfmdkNfNfNmdkNlfNjidkmgkNTf1fdjjioNfNTYn[]fdhhgoNfNTYo[]NfNTYr[]fdiihnNfNTYe[]

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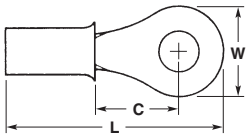
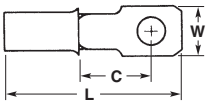
PIDG Ring Tongue Terminals for Thin Wall Cables (Continued)

High Temperature Range
(Continued)

Related Product Data
Application Tooling — page 10-22



Style A



Style D

Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Style	Part Number
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C				
14-12	**.119** 3.02	M2.5	6	4	**.25** 6.35	**.711** 18.06	**.181** 4.59	White	**.091-.126** 2.30-3.20	A	153110
	.145 3.68	M3	4	6	**.25** 6.35	**.711** 18.06	**.181** 4.59				153111
	.171 4.34	M4	3	8	**.343** 8.71	**.867** 22.02	**.291** 7.39				153112
	.197 5.00	—	2	10	**.343** 8.71	**.867** 22.02	**.291** 7.39				153113
	.265 6.73	M6	0	1/4	**.469** 11.91	**1.08** 27.58	**.448** 11.39				153114
	.328 8.33	M8	5/16	5/16	**.469** 11.91	**1.08** 27.58	**.448** 11.39				153115
	.390 9.90	M9.5	3/8	3/8	**.531** 13.48	**1.21** 30.76	**.531** 13.48				153116
	.119 3.02	M2.5	6	4	**.218** 5.44	**.798** 20.26	**.291** 7.39			D	153476
10	**.119** 3.02	M2.5	6	4	**.280** 7.10	**.937** 23.79	**.213** 5.40	Black	**.102-.150** 2.60-3.80	A	50844
	.145 3.68	M3	4	6	**.374** 9.50	**1.08** 27.50	**.295** 7.50				50845
	.171 4.34	M4	3	8	**.374** 9.50	**1.08** 27.50	**.295** 7.50				50845-1
	.197 5.00	—	2	10	**.374** 9.50	**1.08** 27.50	**.295** 7.50				50845-2
	.265 6.73	M6	0	1/4	**.531** 13.48	**1.28** 32.51	**.429** 10.90				50846
	.328 8.33	M8	5/16	5/16	**.531** 13.48	**1.33** 33.70	**.461** 11.70				50847
	.390 9.90	M9.5	3/8	3/8	**.593** 15.06	**1.40** 35.68	**.531** 13.48				50848

NSA936501	Part Number PEEK	Color	Size	PTFE Equivalent	Hand Tool
TA 2201	1577616-1	Brown	24-22	152642	AWG 24 and AWG 22 576778
TA 2202	1577617-1	Brown	24-22	152643	
TA 2203	1577618-1	Brown	24-22	152644	
TA 2204	1577619-1	Brown	24-22	152645	
TA 2205	1577620-1	Brown	24-22	152646	
TA 2206	1577621-1	Brown	24-22	152647	
TA 2001	1577622-1	Grey	20	152654	AWG 20 576779
TA 2003	1577623-1	Grey	20	152656	
TA 2004	1577624-1	Grey	20	152657	
TA 2005	1577625-1	Grey	20	152658	
TA 2006	1577626-1	Grey	20	152659	
TA 2008	1577627-1	Grey	20	152661	
TA 2009	1577628-1	Grey	20	152662	
TA 2010	1577629-1	Grey	20	152663	

NSA936501	Part Number PEEK	Color	Size	PTFE Equivalent	Hand Tool
TA 1601	1577630-1	Orange	18-16	153103	AWG 18 576780 AWG 16 576781
TA 1602	1577631-1	Orange	18-16	153104	
TA 1603	1577632-1	Orange	18-16	153105	
TA 1604	1577633-1	Orange	18-16	153106	
TA 1605	1577634-1	Orange	18-16	153107	
TA 1606	1577635-1	Orange	18-16	153108	
TA 1607	1577636-1	Orange	18-16	153109	
TA 1401	1577637-1	Beige	14-12	153110	AWG 14 576782 AWG 12 576783
TA 1402	1577638-1	Beige	14-12	153111	
TA 1403	1577639-1	Beige	14-12	153112	
TA 1404	1577640-1	Beige	14-12	153113	
TA 1405	1577641-1	Beige	14-12	153114	
TA 1406	1577642-1	Beige	14-12	153115	
TA 1407	1577643-1	Beige	14-12	153116	
TA 1001	1577644-1	Black	10	50844	AWG 10 576784
TA 1002	1577645-1	Black	10	50845	
TA 1003	1577646-1	Black	10	50845-1	
TA 1004	1577647-1	Black	10	134265-1	
TA 1005	1577648-1	Black	10	50846	
TA 1006	1577649-1	Black	10	50847	
TA 1007	1577650-1	Black	10	50848	

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Application Tooling

Wire Size Range AWG 26-10

Product Type	Wire Size	Hand Tools	Pneumatic Tooling: Dies for 626 Pneumatic Tools 189721-[ ] and 189722-[ ] require Straight Action Adapter[1] 217200-1 or "C" Head Adapter 318161-1 Dies also fit 69710-1 Hand Tool	Tooling For Tape Mounted Products: Dies for 69875 AMP-TAPETRONIC AMP-O-LECTRIC[2] Requires Applicator AMPOMATOR CLS IV[2] Requires Applicators
Pre-Insulated Terminals	26-24	69692-1	69731	—
	22-20		69732	69936
	18-16	69693-1	69733	69937
	14		69734	—
	12-10	—	69735	—
Pre-Insulated Splices	22-20	—	69327	—
	18-16	—	69328	—
	14-12	—	69329	—

[1] Straight Action Adapter 217200-1 is used with Tools 189721-1 or 189722-1. "C" Head Adapter 318161-1 is used with Tools 189721-2 or 189722-2. Both adapters require the use of non-ratchet tool holder 189928-1 or ratchet tool holder 356304-1.
[2] Call Technical Support for Machine and Applicator part numbers.

Wire Size Range AWG 26-6

Product Type	Wire Size	Hand Tools	Hydraulic Tools With Interchangeable Dies: 1752868-1[2] "C" Head
Post Insulated Terminals and Splices	26-24	45730	—
	22-20	46467, 46468[1]	—
	18-16	46468	—
	8	—	69216
	6	—	69217

[1] Part Number 55235-1 only
[2] These crimping heads are recommended for use only with AMP Hydraulic Foot Pump 1583659-1, Hydraulic Hand Pump 1583661-1, DYNA-CRIMP Hydraulic Power Units 1804700-1 (115 VAC) and 1804700-2 (230 VAC).

Wire Size Range AWG 22-10

Product Type	Wire Size	Hand Tools	Pneumatic Tooling: Crimping Heads for 626 Pneumatic Tool 189721-1 and 189722-1[1]	Tooling For Tape Mounted Products: Dies for 69875 AMP-TAPETRONIC AMP-O-LECTRIC[2] Requires Applicator AMPOMATOR CLS IV[2] Requires Applicators
Uninsulated Terminals and Splices with Insulation Support	22-16	46673 46673-1	—	69930
	16-14	46988 59294	—	69931
	12-10	59461	904870-1	69932
Uninsulated Terminals and Splices with Non-Insulation Support	22-16	46447	217206-1	69954
	16-14			69955
	12-10			69956

[1] Crimping Heads require the use of non-ratchet tool holder 189767-1 or ratchet tool holder 356302-1.
[2] Call Technical Support for Machine and Applicator part numbers.

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Application Tooling (Continued)

Wire Size Range AWG 8-1/0

Product Type	Wire Size	Hand Tools	Pneumatic Tooling	Hydraulic Tools With Self Contained Dies				Hydraulic Tools with Interchangeable Dies
			69015 Head	Hand Tool	Latch Head	Hand Tools 1490748-1 and 1490749-1 or Hydraulic Heads 1490745-1, 1490746-1, and 1976230-1 Nest	Indent	1752868-1 "C" Head
Uninsulated Terminals and Splices with Non-Insulation Support	8	69355[1]	49956	59975-1	1673672-1	1490413-1	1490414-1	69216
	6	—	48172			1490413-2	1490414-2	69217
	4	—	48173			1490413-3		69218
	2	—	48174			1490413-4		45433
	1/0	—	48183	—	—	1490413-5	1490414-3	45436

[1] CERTI-CRIMP Hand Tool.
[2] These crimping heads are recommended for use only with AMP Hydraulic Hand Pump 1583661-1 and Hydraulic Foot Pump 1583659-1, DYNA-CRIMP Hydraulic Power Units 1804700-1 (115 VAC) and 1804700-2 (230 VAC).

Tooling for Insulated Terminals

In order to obtain the best results from AMP terminals and splices, it is important to choose the correct tooling. Each terminal manufactured is matched to a compatible tool. By using the guidelines, it's easy to select the correct tool for your application. Different types of tooling are available including hand, pneumatic, or hydraulic. So whether you are involved in large production runs or just maintenance and repair there is a matched tool ideal for your application.

Heavy Head Tool

Hand Tooling

For repair, general maintenance or small production runs, hand tooling is the best way to a reliable termination. Easy to use, requiring no external power source, they can be easily carried from job to job. Precision crimp dies ensure a perfect termination.

AMP hand tooling meets all these requirements and more. Our un-surpassed expertise in connection technology has been used to benefit our complete range of tooling. Take for example the CERTI-CRIMP hand tool. There is a CERTI-CRIMP tool available for each terminal range. Every precision die has been constructed to the finest engineering standards and is strong enough to be used through thousands of crimp terminations. Our ratchet device provides that the crimp cycle is completed before releasing, so it is not either under, or over-crimp any terminal.

For larger terminals a heavy duty hand tool is available which also features a similar patented ratchet device.

Terminal Type	Wire Size mm²	Single Die		
		AWG	Hand Tool	Dot Code
PIDG Terminals for Thin Wall Cables High and Low Temperature	0.25-0.4	24-22	576778	2 dots
	0.6	20	576779	1 dot
	1.0	18	576780	2 dots
	1.2	16	576781	1 dot
	2.0	14	576782	2 dots
	3.0	12	576783	1 dot
	6.0	10	576784	1 dot

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