

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



Photo #103097

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

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

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Terminals and Splices

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 AWG	Standard Quantities	
	Loose Piece	Tape Mounted
26 - 14	1,000	5,000
26 - 22	—	2,500
12 - 10	500	2,500
8, 6, 4	100	—
2, 1/2	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.

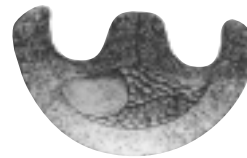
All types, except the STRATO-THERM PIDG terminals, splices and pre-insulated spare wire caps, employ the famous "W" crimp which creates the precise electromechanical properties necessary for solid and/or stranded conductor combinations. A proper crimp will provide a uniform attachment. When mechanical pressure is applied to the terminal barrel, the wire inside is forced into the serrations or dimples of the barrel.

Shown are four typical photomicrographs 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



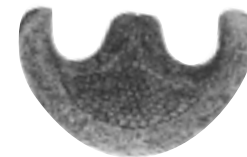
One Solid



**One Solid
Two Stranded**

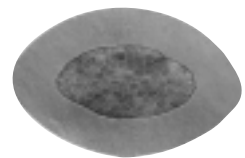


Two Solid



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 photomicrograph 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



Insulated Terminals and Splices

PIDG (Pre-Insulated DIAMOND GRIP) Ring Tongue Terminals

Temperature Rating,
Material and Finish

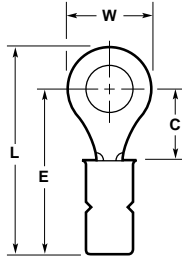
Insulation — TEFLON

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 — page 615 & 616

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Body Plating ¹	Part Number Loose Piece
			W	C Min.	E Max.	L Max.				
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)

Temperature Rating,
Material and Finish

Insulation — TEFLON

Ring — Copper per ASTM B152

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

Related Product Data

Application Tooling — shown to the
right



Tool Part Number
69272-1

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

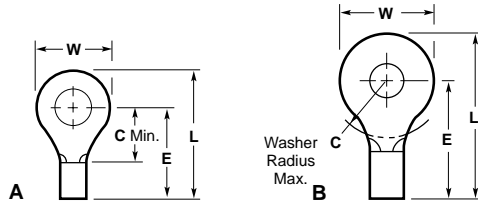
Temperature Rating, Material and Finish

Terminal Body — Copper per
ASTM B152

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

Related Product Data

Application Tooling — pages 615
and 616



Non-Insulation Support

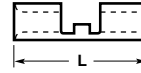
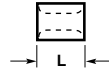
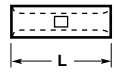
**Non-Insulation Support
(Wire Range 2 & 1/0)**

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Part Number Loose Piece
				W	C	E Max.	L Max.	
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
			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.

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

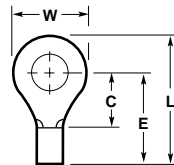
Plating — Nickel per QQ-N-290, 650°F [343°C]

Related Product Data

Application Tooling — pages 615 and 616

Wire Size Circular Mills [mm ²]	Material Thickness Max.	Style	Dimensions			Part Number Loose Piece
			L Max.	ID Min.	OD Max.	
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 615 and 616

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

*Available in small packaging quantities.

Uninsulated Terminals and Splices (Continued)

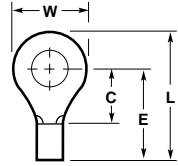
SOLISTRAND High Temperature Ring Tongue Terminals

Temperature Rating and Material

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

Related Product Data

Application Tooling — pages 615
and 616



Non-Insulation Support

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Color Code	Stud Size	Dimensions				Part Number Loose Piece
				W	C Min.	E Max.	L Max.	
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.

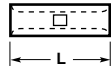
SOLISTRAND High Temperature Splices

Temperature Rating and Material

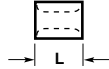
Splice Body — Nickel per
ASTM B162, 1200°F [649°C]

Related Product Data

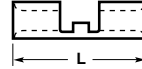
Application Tooling — pages 615
and 616



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 [mm ²]	Material Thickness Max.	Color Code	Style	Dimensions			Part Number Loose Piece
				L Max.	ID Min.	OD Max.	
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

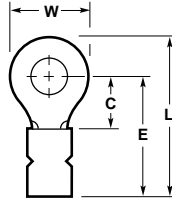
Terminal Body — Copper per
ASTM B152

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

Metallic Sleeve — Nickel Silver per
ASTM B122

Related Product Data

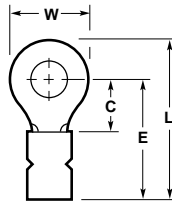
Application Tooling — pages 615
and 616



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

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

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 615
and 616

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Body Material	Sleeve Color Code	Wire Insulation Diameter Max.	Part Number Loose Piece		
			W	C Min.	E Max.	L Max.						
22-16 509-3,260 [0.26-1.65]	.033 0.84	6 M3.5	.281	.250	.611	.749	Nickel	Orange	.140 3.56	321892		
			7.14	6.35	15.52	19.02						
		8 M4	.281	.250	.611	.749	Nickel	Orange	.140 3.56	321893		
			7.14	6.35	15.52	19.02						
		10	.312	.281	.637	.796	Nickel	Orange	.140 3.56	321897		
			7.92	7.14	16.18	20.22						
		1/4 M6	.033 0.84	1/4 M6	.312	.281	.637	.796	Chromel	Gray	.140 3.56	1-321897-0
					7.92	7.14	16.18	20.22				
		10	.042 1.07	10	.281	.250	.611	.749	Nickel	Orange	.140 3.56	321894
					7.14	6.35	15.52	19.02				
		1/4 M6	.042 1.07	1/4 M6	.312	.281	.637	.796	Nickel	Orange	.140 3.56	321898
					7.92	7.14	16.18	20.22				
1/4 M6	.042 1.07	1/4 M6	.312	.281	.637	.796	Alumel	Green	.140 3.56	1-321898-0		
			7.92	7.14	16.18	20.22						
1/4 M6	.042 1.07	1/4 M6	.468	.437	.793	1.031	Nickel	Orange	.140 3.56	322320		
			11.89	11.10	20.14	26.19						

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

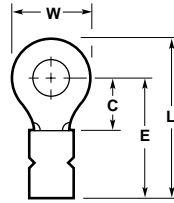
Uninsulated Terminals and Splices (Continued)

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



Insulation Support

Related Product Data

Application Tooling — pages 615 and 616

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

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

PIDG Terminals and Splices for Thin Wall Cables

Product Facts

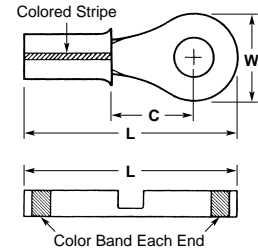
- All high and low temperature PIDG STRATO-THERM Terminals and Splices conform to BS 5G 178 — crimped joints for aircraft cables and wires — and meets the requirements of BS G 204, class II
- Temperature Range — -55° – +105° / +150°
- NATO stock reference available
- European military & civil program cross references available, i.e. Pannavia, Eurofighter, Concorde, Airbus and other customer platforms
- 150°C — High temperature
 - D.D.P. No.: GP 10 D
 - Nickel plating over copper barrel
 - TEFLON sleeve
 - Not tested up to 190° C and 260° C as set out in BS 5G 178
- 105°C — Low temperature
 - D.D.P. No.: GP 17
 - Tin plating over copper barrel
 - Nylon sleeve
 - Compatible with all BS 5G 178 fluids, except BS 3150 and BS M 26
- Dot code feature for additional visual verification of correct cavity to terminal association after crimp possible

- Instruction Sheet — 408-1049
- Insulated sleeves are color coded for easy identification
- Used for thin wall cable with tin or nickel plated conductors
- Inner serrated wire barrel for improved electrical conductivity and high tensile strength

The special PIDG STRATO-THERM Terminal & Splice line for thin wall aircraft cables and wires is used in nearly every Aerospace & Defense platform in Europe. We do offer this line in a low temperature

(105° C) and high temperature (150° C) profile.

Tooling is also available with a reduced overall length for improved handling in a narrow aircraft platform electronic cabinet. In addition the crimp range of one tool has been extended to provide more flexibility to the user.



Low Temperature Range

Related Product Data

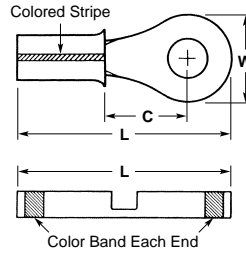
Application Tooling — page 616

Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Part Number			
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C						
22-24	.093 2.36	M2	8	2	.218 5.54	.652 16.56	.166 4.22	Black	.035-.075 0.90-1.90	151435			
	.119 3.02	M2.5	6	4	.218 5.54	.652 16.56	.166 4.22			151436			
					.281 7.14	.780 19.80	.25 6.35			151438			
	.145 3.68	M3	4	6	.218 5.54	.746 18.94	.265 6.73			151458			
					.281 7.14	.780 19.80	.25 6.35			151437			
	.171 4.34	M4	3	8	.281 7.14	.780 19.80	.25 6.35			151440			
					.197 5.00	—	2			10	.281 7.14	.780 19.80	.25 6.35
	20	.093 2.36	M2	8	2	.218 5.54	.662 16.81			.166 4.22	Purple w/ Red Stripe	.043-.079 1.10-2.00	152899
		.122 3.10	M2.5	6	4	.218 5.54	.662 16.81			.166 4.22			152898
						.240 6.09	.882 22.40			.36 9.14			154924
.148 3.76		M3	4	6	.281 7.14	.787 20.00	.25 6.35	152895					
					.250 6.35	.882 22.40	.36 9.14	152896					
.145 3.68		M3	4	6	.218 5.54	.662 16.81	.166 4.22	152897					
					.281 7.14	.787 20.00	.26 6.60	152894					
.171 4.34		M4	3	8	.312 7.92	.834 21.18	.291 7.39	152893					
					.200 5.08	—	2	10	.312 7.92	.834 21.18			.291 7.39
.199 5.06		—	2	10	.281 7.14	.787 20.00	.26 6.60	152892					
	.268 6.81				M6	0	1/4	.469 11.91	1.07 27.13	.447 11.35	152890		
.331 8.41	M8	5/15	5/16	.469 11.91	1.07 27.13	.447 11.35	152889						
				.393 9.98	M9.5	3/8	3/8	.469 11.91	1.07 27.13	.447 11.35	152888		

PIDG Terminals and Splices for Thin Wall Cables (Continued)

Low Temperature Range (Continued)

Related Product Data
Application Tooling — page 616



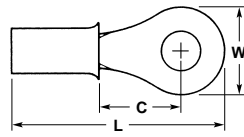
Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Part Number			
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C						
18-16	.122 3.10	M2.5	6	4	.218 5.54	.680 17.27	.166 4.22	Orange w/ Red Stripe	.055-.106 1.40-2.70	152887			
	.125 3.18	M2.5	6	4	.240 6.09	.90 22.86	.360 9.14			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			
					.312 7.92	.852 21.64	.291 7.39			152880			
	.197 5.00	—	2	10	.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 w/ Red Stripe	.091-.126 2.30-3.20	154930
		.145 3.68	M3	4	6	.250 6.35	.711 18.05			.181 4.59			152876
.343 8.71						.867 22.02	.291 7.39	152874					
.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

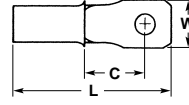
Wire Size	Stud Size				Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Part Number
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L	C			
24-22	—	—	—	—	1.125 28.58	—	—	Black	.035-.075 0.90-1.90	153400
20	—	—	—	—	1.135 28.82	—	—	Purple w/ Red Stripe	.043-.079 1.10-2.00	153401
18-16	—	—	—	—	.996 25.30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

PIDG Ring Tongue Terminals for Thin Wall Cables

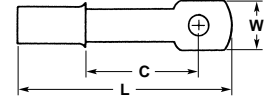
High Temperature Range
Related Product Data
Application Tooling — page 616



Style A



Style B



Style C

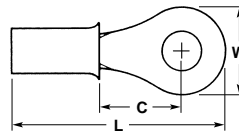
Wire Size	Stud Size			Dimensions (Max.)			Color Code	Wire Insulation Outside Dia.	Style	Part Number	
	+/- .03 [+/- 0.8]	Metric	BA #	UN #	W	L					C
22-24	.119 3.02	M2.5	6	4	.218 5.54	.657 16.68	.166 4.22	Brown	.035-.075 0.90-1.90	A	152642
					.281 7.14	.787 19.98	.25 6.35				152644
	.218 5.54	.751 19.08	.25 6.35	152648							
	.145 3.68	M3	4	6	.218 5.54	.657 16.68	.166 4.22				152643
	.281 7.14	.787 19.98	.25 6.35	152645							
.171 4.34	M4	3	8	.281 7.14	.787 19.98	.25 6.35	152646				
.197 5.00	—	2	10	.281 7.14	.787 20.0	.244 6.20	152647				
20	.093 2.36	M2	8	2	.218 5.54	.680 17.27	.166 4.22	Grey	.043-.079 1.10-2.00	A	152660
	.122 3.10	M2.5	6	4	.281 7.14	.787 19.98	.26 6.60				152654
					.218 5.54	.680 17.27	.166 4.22				152659
	.148 3.76	M3	4	6	.281 7.14	.787 19.98	.25 6.35				152655
					.218 5.54	.680 17.27	.166 4.22				152658
	.171 4.34	M4	3	8	.281 7.14	.787 19.98	.26 6.60				152656
	.199 5.06	—	2	10	.281 7.14	.787 19.98	.26 6.60				152657
	.268 6.81	M6	0	1/4	.469 11.91	1.08 27.58	.447 11.35				152661
	.331 8.41	M8	5/16	5/16	.469 11.91	1.08 27.58	.447 11.35				152662
	.393 9.98	M9.5	3/8	3/8	.469 11.91	1.08 27.58	.447 11.35				152663
.122 3.10	M2.5	6	4	.218 5.54	.746 18.94	.26 6.60	B	153493			
18-16	.122 3.10	M3	6	4	.218 5.54	.681 17.30	.166 4.22	Orange	.055-.106 1.40-2.70	A	153103
	.145 3.68	M3	4	6	.281 7.10	.807 20.50	.26 6.60				153104
	.171 4.34	M4	3	8	.312 7.92	.854 21.70	.291 7.39				153105
	.197 5.00	—	2	10	.312 7.92	.854 21.70	.291 7.39				153106
	.265 6.73	M6	0	1/4	.469 11.91	1.09 27.70	.447 11.35				153107
	.328 8.33	M8	5/16	5/16	.469 11.91	1.09 27.70	.447 11.35				153108
	.390 9.90	M9.5	3/8	3/8	.531 13.48	1.21 30.79	.531 13.48				153109
	.125 3.17	—	—	—	.223 5.66	.902 22.90	.359 9.11				C

7
Terminals and Splices

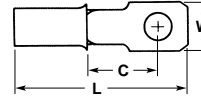
PIDG Ring Tongue Terminals for Thin Wall Cables (Continued)

High Temperature Range
(Continued)

Related Product Data
Application Tooling — page 616



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						

Application Tooling Information for STRATO-THERM Insulated Heat Resistant and High Temperature Terminals and Splices

Wire Size Range AWG 26-10

Product Type	AMP Wire Size	Hand Tools	Pneumatic Tooling	Tooling For Tape Mounted Products
			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	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	AMP Wire Size	Hand Tools	Hydraulic Tools With Interchangeable Dies		
			69097 ² "C" Head Nest	69097 ² "C" Head Indent	69099 ² "C" Head
Post Insulated Terminals and Splices	26-24	45730	—	—	—
	22-20	46467, 46468 ¹	—	—	—
	18-16	46468	—	—	—
	8	—	46146	46145	69216
	6	—	46134	46133	69217

¹ Part Number 55235-1 only

² These crimping heads are recommended for use only with AMP Hydraulic Hand Pump 314979-1, DYNA-CRIMP Hydraulic Power Units 69120-1 (115 VAC) and 69120-2 (230 VAC).

Wire Size Range AWG 22-10

Product Type	AMP Wire Size	Hand Tools	Pneumatic Tooling	Tooling For Tape Mounted Products
			Crimping Heads for 626 Pneumatic Tool 189721-1 and 189722-1 ¹	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	356744-1	69930
	16-14	46988 59294	356744-2	69931
	12-10	59461	904870-1	69932
Uninsulated Terminals and Splices with Non-Insulation Support	22-16	—	—	69954
	16-14	46447	217206-1	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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Terminals and Splices

Application Tooling Information for STRATO-THERM Insulated Heat Resistant and High Temperature Terminals and Splices (Continued)

Wire Size Range
AWG 8-1/0

Product Type	AMP Wire Size	Hand Tools	Pneumatic Tooling	Hydraulic Tools With Self Contained Dies		Hydraulic Tools with Interchangeable Dies				
			69015 Head	Hand Tool	Latch Head	59973-1 Hand Tool, 69065 ² & 69067 ² Latch Heads		69097 ² "C" Head		69099 ² "C" Head
						Nest	Indent	Nest	Indent	
Uninsulated Terminals and Splices with Non-Insulation Support	8	69355 ¹	49956			48126	48355	—	—	69216
	6	59083 No CERTI-CRIMP	48172			48128		—	—	69217
	4	—	48173	59975-1	69069 ²	48129	48127	46135		69218
	2	—	48174			48130		46136	46133	45433
	1/0	—	48183			48132	48131	46138	46137	45436

¹ CERTI-CRIMP Hand Tool.

² These crimping heads are recommended for use only with AMP Hydraulic Hand Pump 314979-1, DYNA-CRIMP Hydraulic Power Units 69120-1 (115 VAC) and 69120-2 (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 AMP manufactures is matched to

a compatible tool. By using the AMP 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			Double Die		
		AWG	Hand Tool	Dot Code	AWG	Hand Tool	Dot Code
PIDG Terminals for Thin Wall Cables High and Low Temperature	0.25-0.4	24-22	576778	2 dots	24-22	1579002-6	2 dots
	0.6	20	576779	1 dot	20		1dot
	1.0	18	576780	2 dots	18-26	1579002-7	3 dots
	1.2	16	576781	1 dot			1dot
	2.0	14	576782	2 dots	14		2 dots
	3.0	12	576783	1 dot	—		—
	6.0	10	576784	1 dot	—	—	—