

# AMP Standard Terminals and Splices

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### Product Facts

- Solderless terminals and splices performs up to today's standards for reliable termination in applications ranging from control circuits to heavy duty power wiring
- This catalog describes only standard terminals and splices accommodating wire sizes from 26 AWG through 4/0 AWG
- These terminals are pre-insulated and color coded by wire size for easy identification
- Funnel entry on many terminals allows for easy wire insertion for high speed production
- Nylon or vinyl insulation provides high dielectric strength
- The serration or dimple feature inside the terminal barrel provides exceptional barrel contact and tensile strength
- Special plating process creates a high resistance to corrosion
- Use of AMP application tooling is designed for uniform high quality terminations
- UL, CSA, Military Approved

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### Numerical values

To convert U.S. customary unit values in this catalog to their metric equivalents, use the following formulas:

To convert from	to	Multiply by
inch	millimeter (mm)	2.540000 x 10
inch	metre (m)	2.540000 x 10 <sup>-2</sup>
inch	centimeter (cm)	2.540000
foot	metre (m)	3.0480000 x 10 <sup>-1</sup>
pound-force	newton (N)	4.448222
bar	pascal (Pa)	1.000000 x 10 <sup>5</sup>
pound-force/inch <sup>2</sup>	pascal (Pa)	6.894757 x 10 <sup>3</sup>
pound-mass	kilogram (kg)	4.535924 x 10 <sup>-1</sup>
ounce-mass	kilogram (kg)	2.834952 x 10 <sup>-2</sup>

To convert wire size (AWG) to the equivalent metric value using the circular mil area of the wire, use the following formula:

$$\text{circular mil area (CMA)} / 1550.003 = \text{square millimeter (mm}^2\text{)}$$

**Note:** Dimensions in this catalog are for reference purposes only. Customer drawings are available on request.

**Specifications subject to change. Consult Tyco Electronics for latest design specifications.**

### Need more information?

Call Technical Support:  
1-800-522-6752

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- Technical Support
- Catalogs
- Technical Documents
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**Terminals and Splices**



**PIDG Terminals and Splices**  
**Page 7**  
(Insulation Restricting  
Terminals also)



**PIDG FASTON Terminals and**  
**Splices Page 33**  
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**TERMINYL Terminals and**  
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**CERTI-SEAL Splices**  
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**Terminals and Spices** (Continued)

**Ordering Information**

This catalog is designed for easy selection of terminal type to meet your needs. All terminals and splices are cataloged by tongue type and wire size.

If the part number is known, refer to the numerical index at the back of this catalog for page location of tabular information. In many instances the part is available in loose piece as well as tape mounted. FASTON terminals are available in strip form. When ordering tape mounted parts, specify the terminal or splice part number, the total quantity of parts required, the part number of the tooling to be used and the type of packaging desired (if applicable). The table shown at top right, lists the wire sizes available and the quantity per package for tape mounted and loose piece.

Insulated terminals and splices are color coded to indicate wire range and to help match the terminal with the appropriate tool. The table shown at right identifies the specific wire range insulation color.

**Standard Packaging Quantities**

Wire Size Range AWG	Packaging Quantity Loose Piece	Tape Mounted
26-22	1M/Box	2,500/Reel
22-14	1M/Box	5,000/Reel
16-14 H.D.	500/Box	2,500/Reel
12-10	500/Box	2,500/Reel
8 thru 4	100/Box	—
2 thru 4/0	50/Box	—

**Note:** Package quantities may vary with specific part numbers.

**Insulation Color Code**

Insulation Color Code	Wire Size Range AWG	Comments
Yellow	26-22	—
Transparent	24-20	—
Red	22-16	—
Blue	16-14	—
Yellow/Black	16-14	Heavy Duty
Yellow	12-10	—
Red	8	—
Blue	6	—
Yellow	4	—
Red	2	—
Blue	1/0	—
Yellow	2/0	—
Red	3/0	—
Blue	4/0	—

**Terminals and Splices Performance Specifications**

For detailed test information and product specifications, request appropriate report or refer to the applicable specification listed in the following table.

Product Type	Test Report Number	Application Specification
PIDG Terminals Nylon Insulation	501-31	MIL-T-7928
PIDG Insulation Restriction Terminals	GPR-575-69 110-236	MIL-T-7928/1
PIDG FASTON Terminals	—	UL310
PLASTI-GRIP Terminals	110-11514	UL486
TERMINYL Terminals	110-178	MIL-T-7928
CERTI-SEAL Terminals	—	—

**Terminal and Splices Performance Specifications** (Continued)

The many millions of AMP terminals and splices that have given ten, fifteen and twenty years of service are ample proof of the testing and research that went into their design and manufacturing. Like all AMP solderless wiring devices, they are thoroughly tested to conform to standards of performance under heavy usage. Tests conducted in Tyco Electronics laboratories and research facilities, some of the best-equipped in their field, indicate that these terminals and splices meet or exceed applicable industrial requirements and military specifications. The result of some of the most popular tests are tabulated here.

Upon request, a formal test report will be supplied to support these values and document additional performance requirements not listed.

**MIL-T-7928**

Wire Size	Spec. Min. lb.	Group III Tensile Strength After Vibration - Lb.	Group VI Tensile Strength After Corrosion - Lb.
		Terminal Type	Terminal Type
		PIDG	PIDG
26	7	11.7	10.7
24	10	19.8	19.2
22	15	29.0	23.5
20	19	37.7	46.5
18	38	58.9	70.5
16	50	78.5	81.9
14	70	100	105
12	110	209	213
10	150	247	282
		TERMINYL	TERMINYL
8	225	299	310
6	300	600	609
4	400	784	835
2	550	1,035	1,136
1/0	700	1,781	1,767
2/0	750	1,787	1,721
3/0	825	2,845	2,880
4/0	875	3,048	3,268

**MIL-T-7928**

Wire Size	Specification Maximum Millivolt Drop <sup>1</sup>	Group II Millivolt Drop After Current Cycling <sup>2</sup>	Group III Millivolt Drop After Vibration <sup>2</sup>	Group VI Millivolt Drop After Corrosion <sup>2</sup>
		Terminal Type	Terminal Type	Terminal Type
		PIDG	PIDG	PIDG
26	9.2	3.2	3.1	3.3
24	7.9	2.6	4.9	2.9
22	9.0	4.5	3.8	6.0
20	7.5	3.6	3.8	3.6
18	7.2	3.1	3.6	3.1
16	7.7	3.6	3.7	3.9
14	7.7	3.7	4.0	3.6
12	8.4	4.0	4.6	4.2
10	7.5	3.3	3.6	3.3
		TERMINYL	TERMINYL	TERMINYL
8	5.2	3.7	3.8	4.2
6	5.7	4.3	4.1	4.1
4	5.4	4.1	4.0	4.1
2	5.5	4.2	4.2	4.2
1/0	6.8	4.4	4.3	4.4
2/0	6.7	4.2	4.2	4.2
3/0	6.3	4.2	4.1	4.1
4/0	6.4	4.0	4.1	4.1

<sup>1</sup>Value is millivolt drop permitted after test plus equal length of wire.  
<sup>2</sup>Value includes equal length of wire.



## Terminal Stud Hole Size















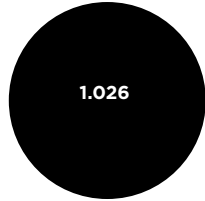



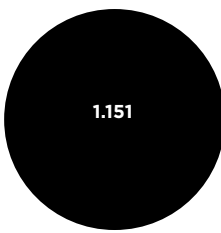


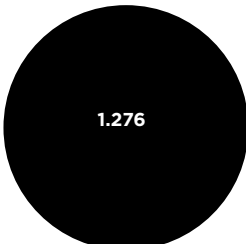
### Use to Select Proper Size Terminal

The chart shows sizes and dimensions of various studs and the corresponding terminal stud hole sizes used with AMP devices.

For example, with stud #5 (.125 Diameter), use AMP device listed for #5 stud (.129 Hole Diameter).

Terminal stud hole sizes may easily be checked by fitting sample terminal to black circle.

Terminal Stud Hole Sizes

Stud Size		Stud Dia.	Minimum Terminal Hole Diameter		Stud Size		Stud Dia.	Minimum Terminal Hole Diameter	
U.S. Cust.	Metric				U.S. Cust.	Metric			
#0		.060		.064					
#1		.073		.077	5/8"	M16	.625		.651
#2	M2	.086		.090					
#3		.099		.103					
#4		.112		.116	3/4"		.750		.776
#5	M3	.125		.129					
#6	M3.5	.138		.142					
#8	M4	.164		.168	7/8"	M22	.875		.901
#10		.190		.194					
#12		.216		.220					
#14		.242		.245	1"		1.000		1.026
1/4"	M6	.250		.260					
5/16"	M8	.312		.323					
3/8"		.375		.385	1 1/8"		1.125		1.151
7/16"		.437		.448					
1/2"	M12	.500		.510	1 1/4"		1.250		1.276

## PIDG Terminals and Splices

### Product Facts

- Pre-insulated terminal designed for uniform reliability in most difficult circuit environments
- PIDG Terminals consist of tin plated copper or tin plated phosphor bronze for spring spades with a copper sleeve and insulation sleeve fitted over terminal barrel
- Design of the tool dies and construction of the terminal allows for uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area

### The AMP Mated Tool/Terminal Concept

- AMP compression crimping produces crimps for a given size wire and terminal that are alike in appearance and performance
- Terminal and crimping tool are designed as uniform matched devices
- Dies are precision-engineered from the finest hard-metal alloys
- Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of AMP automated crimping machines

### The Crimp

- When done properly, crimping pressure can neither overstress nor under stress the terminal barrel—machined dies fully bottom to the precise crimp height
- Resulting termination is free of contamination
- Resistant to shock and critical environments
- Tensile strength approaches that of the wire itself
- PIDG Terminals meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2
- Refer to AMP Qualified Products for Military Application, Catalog 73-159 for Military Specification Number to AMP Part Number cross reference

**Nylon Insulation.** Nylon sleeve has high dielectric strength.

**Color Coding.** Terminal insulation is color-coded by wire range to prevent errors during installation.

**Basic Terminal Material.** The basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per ASTM B-545. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per ASTM B-545. Tyco Electronics' special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

**Copper Sleeve.** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor.

**Serrations.** Serrations inside barrel provide maximum contact and tensile strength after crimping.

**Funnel Ramp Entry.** Prevents a turned back strand and permits rapid wire insertion during high speed production.

**Temperature Rating: 105°C Max.** **Note:** Over size expansions are provided in vinyl insulation only.

AMP PIDG Terminals (Use PIDG Tooling)		AMP PIDG Nylon Butt Window Splice (Use PIDG Tooling)			
AMP Wire Range	UL LISTED	SR <sup>®</sup> LR7189 Certified	AMP Wire Range	UL LISTED	SR <sup>®</sup> LR7189 Certified
22-16 22-16 Solid or Stranded			22-16 22-16 Stranded or Solid		
16-14 16-14 Solid or Stranded		300 V Max., 105°C. Max. <sup>1</sup>	16-14 16-14 Stranded or Solid		300 V Max., 105°C. Max.
12-10 12-10 Solid or Stranded			12-10 12-10 Stranded or Solid		

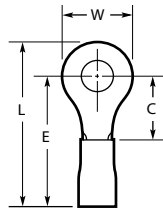
**Note: 22-16 terminals are stamped 22-18 in accordance with MIL-T-7928.** **Note: 22-16 splices are stamped 22-18 in accordance with MIL-T-7928.**

<sup>1</sup>UL & CSA — Nylon

PIDG Terminals and Splices

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**



**Material**  
**Insulation**-Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve**-Copper per ASTM B-152  
**Plating**-Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
26-24 238-475 [0.12-0.24]	.029 0.74	2 M2	.203 5.16	.211 5.36	.632 16.05	.739 18.77	Yellow	.105 2.67	54310-1'	—
		4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow	.105 2.67	52189'	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow	.105 2.67	53073'	—
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow	.105 2.67	54311-1'	—
		10	.312 7.92	.281 7.14	.702 17.83	.868 22.05	Yellow	.105 2.67	54312-1'	54312-2'
26-22 202-810 [0.10-0.41]	.020 0.51	0	.140 3.56	.121 3.07	.452 11.48	.525 13.34	Yellow	.082 2.08	321013	—
		2 M2	.140 3.56	.121 3.07	.452 11.48	.525 13.34	Yellow	.082 2.08	323912*	2-323912-1
			.140 3.56	.211 5.36	.542 13.77	.615 15.62	Yellow	.082 2.08	329951*	—
			.165 4.19	.211 5.36	.542 13.77	.617 15.67	Yellow/Br.	.082 2.08	321620*	1-321620-0
		4	.203 5.16	.211 5.36	.542 13.77	.646 16.41	Yellow	.082 2.08	323913	2-323913-1
			.203 5.16	.211 5.36	.542 13.77	.646 16.41	Yellow	.082 2.08	323914*	2-323914-1
		6 M3.5	.198 5.03	.308 7.82	.643 16.33	.745 18.92	Yellow	.082 2.08	321617	—
			.203 5.16	.211 5.36	.542 13.77	.646 16.41	Yellow	.082 2.08	323915*	2-323915-2
		8 M4	.250 6.35	.281 7.14	.612 15.54	.740 18.80	Yellow	.082 2.08	326875*	2-326875-1
			.250 6.35	.281 7.14	.612 15.54	.740 18.80	Yellow	.082 2.08	323916*	2-323916-1
		10	.300 7.62	.281 7.14	.612 15.54	.765 19.43	Yellow	.082 2.08	52124	52124-2
			.250 6.35	.281 7.14	.612 15.54	.740 18.80	Yellow	.082 2.08	324075*	2-324075-1
0	.160 4.06	.125 3.18	.506 12.85	.589 14.96	Natural	.100 2.54	—	2-328489-1		
	.160 4.06	.125 3.18	.506 12.85	.589 14.96	Natural	.100 2.54	329636	2-329636-1		
24-20 320-1,290 [0.16-0.65]	.025 0.64	4	.203 5.16	.250 6.35	.631 16.03	.735 18.67	Natural	.100 2.54	50534	—
			.281 7.14	.250 6.35	.631 16.03	.774 19.66	Natural	.100 2.54	323985	—
		6 M3.5	.281 7.14	.250 6.35	.631 16.03	.774 19.66	Natural	.100 2.54	323986	2-323986-1
		8 M4	.312 7.92	.281 7.14	.662 16.81	.821 20.85	Natural	.100 2.54	323989	1-323989-0
		10	.312 7.92	.281 7.14	.662 16.81	.821 20.85	Natural	.100 2.54	323990	2-323990-1

\*Available in small packaging quantities.

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

†Must be crimped with 22-18 or 22-16 PIDG (red) Tooling.



**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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	1	.160 4.06	.156 3.96	.560 14.22	.643 16.33	Red	.125 3.18	327174	2-327174-1
			.182 4.62	.172 4.37	.576 14.63	.669 16.99	Red	.125 3.18	324158	2-324158-1
		2 M2	.182 4.62	.172 4.37	.576 14.63	.669 16.99	Red	.140 3.56	320773	—
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	328657*	2-328657-1
		4	.182 4.62	.172 4.37	.576 14.63	.669 16.99	Red/Green	.125 3.18	327654*	—
			.182 4.62	.172 4.37	.576 14.63	.669 16.99	Red	.140 3.56	320882*	2-320882-1
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	320553*	2-320553-2
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	36254 <sup>1</sup>	—
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.140 3.56	31880*	2-31880-1
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Black	.140 3.56	35229	—
			.250 6.35	.312 7.92	.716 18.19	.844 21.44	Red	.125 3.18	323758	2-323758-1
			.250 6.35	.312 7.92	.716 18.19	.844 21.44	Red	.140 3.56	330648	2-330648-1
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	36149*	2-36149-2
			.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.140 3.56	36150*	2-36150-1
		6 M3.5	.250 6.35	.250 6.35	.654 16.61	.782 19.86	Red	.125 3.18	51863*	51863-1
			.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.125 3.18	36151*	2-36151-2
			.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.140 3.56	36152*	2-36152-1
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.125 3.18	323008	2-323008-1
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.140 3.56	326878	2-326878-1
			.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.125 3.18	320554*	2-320554-1
			.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.140 3.56	31886*	2-31886-2
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.125 3.18	320551*	1-320551-1
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.140 3.56	31890*	2-31890-1
			.344 8.74	.297 7.54	.701 17.81	.876 22.25	Red	.140 3.56	32835	2-32835-2
8 M4	.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.125 3.18	320552*	2-320552-1		
	.281 7.14	.250 6.35	.654 16.61	.797 20.24	Red	.140 3.56	31887*	2-31887-1		
	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.125 3.18	36153*	2-36153-2		
	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.140 3.56	36154*	2-36154-2		
	.344 8.74	.297 7.54	.701 17.81	.876 22.25	Red	.125 3.18	32836*	—		
	.344 8.74	.297 7.54	.701 17.81	.876 22.25	Red	.140 3.56	32837*	32837-1		

\*Available in small packaging quantities.

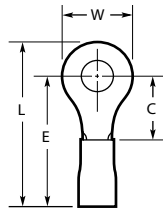
<sup>1</sup>Slightly larger than standard #4 stud hole. (.128 in./3.25 mm.)

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)



**Material**

**Insulation**-Nylon, UL 94V-2

**Terminal Body and Metallic Sleeve**-Copper per ASTM B-152

**Plating**-Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling**-pg. 66

PIDG Terminals and Splices

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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	1/4 M6	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.125 3.18	320571*	2-320571-2		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Black	.125 3.18	55936-1	55936-2		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.140 3.56	31894*	2-31894-2		
		5/16 M8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.125 3.18	320572*	2-320572-1		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.140 3.56	31895*	2-31895-1		
			.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Red	.125 3.18	324123	—		
		3/8	.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Red	.125 3.18	320573*	2-320573-4		
			.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Red	.140 3.56	31897*	2-31897-2		
			.656 16.66	.437 11.10	.841 21.36	1.171 29.74	Red	.125 3.18	321522	—		
		1/2 M12	.713 18.11	.530 13.46	.934 23.72	1.293 32.84	Red	.125 3.18	328975*	—		
		20-16HD <sup>1</sup> 992-2,800 [0.50-1.42]	.042 1.07	10	.469 11.91	.312 7.92	.718 18.24	.955 24.26	Blue	.150 3.81	150247	—
				2 M2	.180 4.57	.171 4.34	.575 14.61	.668 16.97	Blue	.170 4.32	324993	—
.250 6.35	.171 4.34				.575 14.61	.703 17.86	Blue	.150 3.81	324159*	2-324159-2		
4	.250 6.35			.171 4.34	.575 14.61	.703 17.86	Blue	.170 4.32	328996*	2-328996-1		
	.250 6.35			.281 7.14	.685 17.40	.813 20.65	Blue	.150 3.81	323676	—		
	.250 6.35			.171 4.34	.575 14.61	.703 17.86	Blue	.150 3.81	320561*	2-320561-2		
6 M3.5	.250 6.35			.171 4.34	.575 14.61	.703 17.86	Blue	.170 4.32	320619*	2-320619-1		
	.250 6.35			.281 7.14	.685 17.40	.813 20.65	Blue	.170 4.32	50881	50881-2		
	.312 7.92			.250 6.35	.654 16.61	.813 20.65	Blue	.170 4.32	326882*	2-326882-1		
	.312 7.92			.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	51864*	51864-3		
	.343 8.71			.281 7.14	.685 17.40	.859 21.82	Blue	.150 3.81	36157*	2-36157-2		
	.343 8.71			.281 7.14	.685 17.40	.859 21.82	Blue	.170 4.32	36158*	2-36158-1		
8 M4	.312 7.92	.250 6.35	.654 16.61	.813 20.65	Blue	.170 4.32	53941-1*	53941-2				
	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	51864-1*	51864-5				
	.343 8.71	.281 7.14	.685 17.40	.859 21.82	Blue	.150 3.81	320560*	2-320560-1				
	.343 8.71	.281 7.14	.685 17.40	.859 21.82	Blue	.170 4.32	320565*	2-320565-1				

\*Available in small packaging quantities.

<sup>1</sup>Heavy duty for extra mechanical strength.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Continued)

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted		
16-14 2,050-5,180 [1.04-2.62]	<b>.033</b> 0.84	10	.312 7.92	.250 6.35	.654 16.61	.813 20.65	Blue	.170 4.32	53942-1	53942-2		
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	51864-2*	51864-4		
			.343 8.71	.281 7.14	.685 17.40	.859 21.82	Blue	.150 3.81	320574*	2-320574-2		
			.343 8.71	.281 7.14	.685 17.40	.859 21.82	Blue	.170 4.32	36160*	2-36160-1		
		12	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.170 4.32	324533	2-324533-2		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.170 4.32	324086	2-324086-1		
		14	.468 11.89	.312 7.92	.716 18.19	.953 24.21	Blue	.170 4.32	35274	—		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.150 3.81	320563*	2-320563-2		
		1/4 M6	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.170 4.32	321045*	2-321045-1		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Black	.170 4.32	325034	2-325034-1		
		5/16 M8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.150 3.81	320575*	2-320575-1		
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.170 4.32	328998*	2-328998-1		
		3/8	.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Blue	.150 3.81	320564*	2-320564-3		
			.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Blue	.170 4.32	328999*	2-328999-1		
		1/2 M12	.713 18.11	.530 13.46	.934 23.72	1.293 32.84	Blue	.150 3.81	328976	—		
			.713 18.11	.530 13.46	.934 23.72	1.293 32.84	Blue	.170 4.32	328849*	—		
		16-14HD <sup>1</sup> 2,050-5,180 [1.04-2.62]	<b>.050</b> 1.27	4	.281 7.14	.219 5.56	.810 20.57	.953 24.21	Yellow/Blk.	.230 5.84	33734	—
					.281 7.14	.219 5.56	.810 20.57	.953 24.21	Yellow/Blk.	.230 5.84	320631*	2-320631-1
				6 M3.5	.281 7.14	.219 5.56	.810 20.57	.953 24.21	Yellow/Blk.	.250 6.35	35634*	—
					.343 8.71	.281 7.14	.872 22.15	1.046 26.57	Yellow/Blk.	.230 5.84	33724	—
8 M4	.343 8.71			.281 7.14	.872 22.15	1.046 26.57	Yellow/Blk.	.230 5.84	320627*	1-320627-0		
	.343 8.71			.281 7.14	.872 22.15	1.046 26.57	Yellow/Blk.	.250 6.35	35106*	2-35106-1		
10	.343 8.71			.281 7.14	.872 22.15	1.046 26.57	Yellow/Blk.	.230 5.84	320630*	2-320630-2		
	.343 8.71			.281 7.14	.872 22.15	1.046 26.57	Yellow/Blk.	.250 6.35	34805*	2-34805-1		
1/4 M6	.500 12.70			.344 8.74	1.179 29.95	1.432 36.37	Yellow/Blk.	.220 5.59	329391	—		
	.500 12.70			.344 8.74	.935 23.75	1.188 30.18	Yellow/Blk.	.230 5.84	34974*	2-34974-1		
5/16 M8	.500 12.70			.344 8.74	.935 23.75	1.188 30.18	Yellow/Blk.	.250 6.35	323682	2-323682-1		
	.531 13.49			.437 11.10	1.028 26.11	1.296 32.92	Yellow/Blk.	.230 5.84	327743	1-327743-1		
1/4 M6	.531 13.49			.437 11.10	1.028 26.11	1.296 32.92	Yellow/Blk.	.250 6.35	34806*	2-34806-3		
	.531 13.49			.437 11.10	1.028 26.11	1.296 32.92	Blue	.250 6.35	—	2-34806-2		
5/16 M8	.531 13.49			.437 11.10	1.028 26.11	1.296 32.92	Yellow/Blk.	.250 6.35	34810	1-34810-1		

\*Available in small packaging quantities.

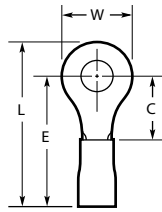
<sup>1</sup>Heavy duty for extra mechanical strength.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)



**Material**

**Insulation**-Nylon, UL 94V-2

**Terminal Body and Metallic Sleeve**-Copper per ASTM B-152

**Plating**-Tin per ASTM B-545 except where noted.

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling**-pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers		
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted	
16-14HD <sup>1</sup> 2,050-5,180 [1.04-2.62]	.050 1.27	3/8	.531 13.49	.437 11.10	1.028 26.11	1.296 32.92	Yellow/Blk.	.230 5.84	330896	—	
			1/2 M12	.750 19.05	.625 15.88	1.216 30.89	1.594 40.49	Yellow/Blk.	.250 6.35	35316*	—
				1.250 31.75	1.000 25.40	1.591 40.41	2.219 56.36	Yellow/Blk.	.250 6.35	36203	—
		3/4	1.250 31.75	1.000 25.40	1.591 40.41	2.219 56.36	Yellow/Blk.	.250 6.35	322724	—	
			4	.281 7.14	.219 5.56	.810 20.57	.953 24.21	Yellow	.250 6.35	35148*	1-35148-1
				.281 7.14	.219 5.56	.810 20.57	.953 24.21	Yellow	.230 5.84	320634*	2-320634-1
		.281 7.14		.219 5.56	.810 20.57	.953 24.21	Yellow	.250 6.35	35149*	2-35149-1	
		6 M3.5	.312 7.92	.302 7.67	.893 22.68	1.052 26.72	Yellow	.230 5.84	326886	326886-1	
			.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.230 5.84	320567*	2-320567-2	
			.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	35107*	2-35107-1	
			.312 7.92	.281 7.14	.872 22.15	1.031 26.19	Yellow	.230 5.84	35787*	1-35787-0	
			.312 7.92	.302 7.67	.893 22.68	1.052 26.72	Yellow	.230 5.84	324915*	—	
.375 9.53	.302 7.67		.893 22.68	1.083 27.51	Yellow	.230 5.84	320568*	2-320568-1			
8 M4	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	35108*	2-35108-1			
	.312 7.92	.302 7.67	.893 22.68	1.052 26.72	Yellow	.230 5.84	324918*	1-324918-0			
	.343 8.71	.281 7.14	.872 22.15	1.046 26.57	Yellow	.230 5.84	32883*	1-32883-0			
	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.230 5.84	36161*	2-36161-2			
	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	35109*	2-35109-1			
	.500 12.70	.344 8.74	.935 23.75	1.188 30.18	Yellow	.230 5.84	2-323762-1	2-323762-3			
10	.500 12.70	.344 8.74	1.179 29.95	1.432 36.37	Yellow	.220 5.59	329389	—			
	.500 12.70	.344 8.74	.935 23.75	1.188 30.18	Yellow	.230 5.84	35273*	2-35273-2			
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	320569*	2-320569-3			
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	—	2-32545-4 <sup>2</sup>			
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.250 6.35	35110*	2-35110-1			
	.500 12.70	.344 8.74	.935 23.75	1.188 30.18	Yellow	.230 5.84	35273*	2-35273-2			
1/4 M6	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	320569*	2-320569-3			
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	—	2-32545-4 <sup>2</sup>			
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.250 6.35	35110*	2-35110-1			

\*Available in small packaging quantities.

<sup>1</sup>Heavy duty for extra mechanical strength.

<sup>2</sup>Terminal body plating — Gold per MIL-G-45204 Type II over Nickel per QQ-N-290.

<sup>3</sup>Terminal body plating — Nickel per QQ-N-290.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Continued)

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	M5	.375 9.53	.302 7.67	.967 24.56	1.160 29.46	Yellow	.300 7.62	—	55157-2 <sup>1</sup>
		5/16 M8	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	320576*	2-320576-1
			.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.250 6.35	35111*	2-35111-1
		3/8	.593 15.06	.531 13.49	1.115 28.32	1.414 35.92	Yellow	.230 5.84	320577*	2-320577-3
			.593 15.06	.531 13.49	1.115 28.32	1.414 35.92	Yellow	.250 6.35	35112*	—
			.750 19.05	.625 15.88	1.216 30.89	1.594 40.49	Yellow	.250 6.35	35150	—
		1/2 M12	.715 18.16	.474 12.04	1.065 27.05	1.414 35.92	Yellow	.230 5.84	52077	—
			.715 18.16	.560 14.22	1.151 29.24	1.511 38.38	Yellow	.230 5.84	331467	—
			.750 19.05	.625 15.88	1.216 30.89	1.594 40.49	Yellow	.230 5.84	323784	—
			.750 19.05	.625 15.88	1.216 30.89	1.594 40.49	Yellow	.250 6.35	35151*	—
			.750 19.05	.625 15.88	1.216 30.89	1.594 40.49	Yellow	.250 6.35	35151*	—
		5/8 M16	1.250 31.75	1.000 25.40	1.591 40.41	2.219 56.36	Yellow	.230 5.84	324615	—

\*Available in small packaging quantities.

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

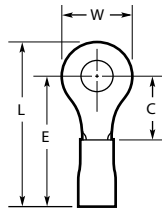
<sup>1</sup>Vinyl insulation material



**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Vinyl)



**Material**

**Insulation**-Vinyl, UL 94V-0

**Terminal Body and Metallic Sleeve**-Copper per ASTM B-152

**Plating**-Tin per ASTM B-545 except where noted.

PIDG Terminals and Splices

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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]	<b>.033</b> 0.84	6 M3.5	<b>.281</b> 7.14	<b>.250</b> 6.35	<b>.654</b> 16.61	<b>.797</b> 20.24	Red	<b>.140</b> 3.56	31885	—	
		8 M4	<b>.312</b> 7.92	<b>.281</b> 7.14	<b>.685</b> 17.40	<b>.844</b> 21.44	Red	<b>.125</b> 3.18	31888	—	
			<b>.312</b> 7.92	<b>.281</b> 7.14	<b>.685</b> 17.40	<b>.844</b> 21.44	Red	<b>.125</b> 3.18	2-31888-1 <sup>2</sup>	—	
		10	<b>.281</b> 7.14	<b>.250</b> 6.35	<b>.654</b> 16.61	<b>.797</b> 20.24	Red	<b>.125</b> 3.18	31884	—	
			<b>.312</b> 7.92	<b>.281</b> 7.14	<b>.685</b> 17.40	<b>.844</b> 21.44	Red	<b>.140</b> 3.56	31891	—	
		16-14 2,050-5,180 [1.04-2.62]	<b>.033</b> 0.84	10	<b>.312</b> 7.92	<b>.250</b> 6.35	<b>.654</b> 16.61	<b>.813</b> 20.65	Blue	<b>.170</b> 4.32	—
<b>.312</b> 7.92	<b>.281</b> 7.14				<b>.685</b> 17.40	<b>.844</b> 21.44	Blue	<b>.150</b> 3.81	—	51861-4	
<b>.343</b> 8.71	<b>.281</b> 7.14				<b>.685</b> 17.40	<b>.859</b> 21.82	Blue	<b>.170</b> 4.32	31903	—	
10	<b>.343</b> 8.71			<b>.281</b> 7.14	<b>.961</b> 24.41	<b>1.135</b> 28.83	Yellow/Blk.	<b>.300</b> 7.62	35363*	—	
	1/4 M6			<b>.531</b> 13.49	<b>.437</b> 11.10	<b>1.117</b> 28.37	<b>1.385</b> 35.18	Yellow/Blk.	<b>.300</b> 7.62	35362*	—
	5/16 M8			<b>.531</b> 13.49	<b>.437</b> 11.10	<b>1.117</b> 28.37	<b>1.385</b> 35.18	Yellow/Blk.	<b>.300</b> 7.62	35538	—
16-14HD <sup>1</sup> 2,050-5,180 [1.04-2.62]	<b>.050</b> 1.27	1/2 M12	<b>1.250</b> 31.75	<b>1.000</b> 25.40	<b>1.680</b> 42.67	<b>2.308</b> 58.62	Yellow/Blk.	<b>.300</b> 7.62	36485	—	
		6 M3.5	<b>.375</b> 9.53	<b>.302</b> 7.67	<b>.982</b> 24.94	<b>1.172</b> 29.77	Yellow	<b>.300</b> 7.62	35604	—	
		8 M4	<b>.375</b> 9.53	<b>.302</b> 7.67	<b>.982</b> 24.94	<b>1.172</b> 29.77	Yellow	<b>.300</b> 7.62	35605*	2-35605-2	
		10	<b>.375</b> 9.53	<b>.302</b> 7.67	<b>.982</b> 24.94	<b>1.172</b> 29.77	Yellow	<b>.300</b> 7.62	35364*	2-35364-1	
		5mm <sup>3</sup>	<b>.375</b> 9.53	<b>.302</b> 7.67	<b>.967</b> 24.56	<b>1.160</b> 29.46	Yellow	<b>.300</b> 7.62	—	55157-2	
		1/4 M6	<b>.500</b> 12.70	<b>.344</b> 8.74	<b>1.024</b> 26.01	<b>1.277</b> 32.44	Yellow	<b>.300</b> 7.62	323763	2-323763-2	
<b>.531</b> 13.49	<b>.468</b> 11.89		<b>1.148</b> 29.16	<b>1.416</b> 35.97	Yellow	<b>.300</b> 7.62	35345*	2-35345-1			
5/16 M8	<b>.531</b> 13.49	<b>.468</b> 11.89	<b>1.148</b> 29.16	<b>1.416</b> 35.97	Yellow	<b>.300</b> 7.62	35346*	2-35346-1			
	<b>.593</b> 15.06	<b>.531</b> 13.49	<b>1.211</b> 30.76	<b>1.510</b> 38.35	Yellow	<b>.300</b> 7.62	35478	1-35478-0			

\*Available in small packaging quantities.

<sup>1</sup>Heavy duty for extra mechanical strength.

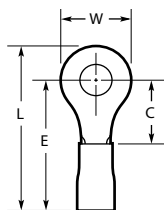
<sup>2</sup>Terminal body plating — Gold per MIL-G-45204 Type II over Nickel per QQ-N-290.

<sup>3</sup>#10 stud may be substituted.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Insulation Restricting)



**Material**  
**Insulation**-Nylon, UL 94V-2  
**Terminal Body**-Copper per ASTM B-152  
**Plating**-Tin per ASTM B-545  
**Metallic Sleeve**-Copper per ASTM B-152  
**Plating**-Nickel per QQ-N-290 or Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Range	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
26 304 [0.15]	.029 0.74	2 M2	.203 5.16	.211 5.36	.632 16.05	.739 18.77	Yellow/Black	.026-.055 0.66-1.40	53078'	—
		4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow/Black	.026-.055 0.66-1.40	53049'	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow/Black	.026-.055 0.66-1.40	53050'	—
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow/Black	.026-.055 0.66-1.40	53051'	—
		10	.312 7.92	.281 7.14	.702 17.83	.863 21.92	Yellow/Black	.026-.055 0.66-1.40	53052'	—
24 475 [0.24]	.020 0.51	4	.203 5.16	.211 5.36	.587 14.91	.691 17.55	Yellow/Blue	.031-.055 0.79-1.40	2-323914-2	—
		6 M3.5	.250 6.35	.281 7.14	.657 16.69	.785 19.94	Yellow/Blue	.031-.055 0.79-1.40	2-326875-4	—
		8 M4	.250 6.35	.281 7.14	.657 16.69	.785 19.94	Yellow/Blue	.031-.055 0.79-1.40	2-323916-3	—
		10	.250 6.35	.281 7.14	.657 16.69	.785 19.94	Yellow/Blue	.031-.055 0.79-1.40	2-326875-5	—
		2 M2	.203 5.16	.211 5.36	.632 16.05	.739 18.77	Yellow/Blue	.031-.055 0.79-1.40	53053'	—
22 754 [0.38]	.029 0.74	4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow/Blue	.031-.055 0.79-1.40	53054'	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow/Blue	.031-.055 0.79-1.40	53055'	53055-1'
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow/Blue	.031-.055 0.79-1.40	53056'	—
		10	.312 7.92	.281 7.14	.702 17.83	.860 21.84	Yellow/Blue	.031-.055 0.79-1.40	53057'	53057-1'
		2 M2	.182 4.62	.172 4.37	.638 16.21	.731 18.57	Red/Green	.038-.110 0.97-2.79	52307	—
22 754 [0.38]	.033 0.84	4	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Green	.038-.110 0.97-2.79	52273*	—
		6 M3.5	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Green	.038-.110 0.97-2.79	2-36149-3*	—
			.250 6.35	.250 6.35	.716 18.19	.844 21.44	Red/Green	.038-.110 0.97-2.79	51863-2*	51863-5
		8 M4	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Green	.038-.110 0.97-2.79	1-320551-2*	1-320551-5
		10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Green	.038-.110 0.97-2.79	2-36153-3*	2-36153-6
		1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Green	.038-.110 0.97-2.79	2-320571-3	—
		5/16 M8	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Green	.038-.110 0.97-2.79	2-320572-2	—
3/8	.531 13.49	.546 13.87	1.012 25.70	1.280 32.51	Red/Green	.038-.110 0.97-2.79	2-320573-1	—		
1/2 M12	.713 18.11	.530 13.46	.996 25.30	1.355 34.42	Red/Green	.038-.110 0.97-2.79	2-328975-1	—		

\*Available in small packaging quantities.

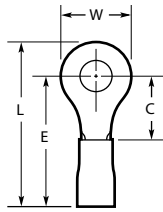
**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole.

'Must be crimped with 22-18 or 22-16 PIDG (red) Tooling.

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Insulation Restricting)

(Continued)



**Material**

**Insulation**-Nylon, UL 94V-2

**Terminal Body**-Copper per ASTM B-152

**Plating**-Tin per ASTM B-545

**Metallic Sleeve**-Copper per ASTM B-152

**Plating**-Nickel per QQ-N-290 or Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code**-pg. 4

**Packaging Quantities**-pg. 4

**Performance Specifications**-pgs. 4 & 5

**Application Tooling**-pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Range	Part Numbers			
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted		
20 1,186 [0.60]	.033 0.84	2 M2	.182 4.62	.172 4.37	.638 16.21	.731 18.57	Red/Red	.046-.110 1.17-2.79	52307-1	—		
		4	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Red	.046-.110 1.17-2.79	52273-1*	—		
		6 M3.5	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Red	.046-.110 1.17-2.79	2-36149-4*	—		
			.250 6.35	.250 6.35	.716 18.19	.844 21.44	Red/Red	.046-.110 1.17-2.79	51863-3	51863-6		
		8 M4	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Red	.046-.110 1.17-2.79	1-320551-3*	1-320551-7		
		10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Red	.046-.110 1.17-2.79	2-36153-4*	—		
		1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Red	.046-.110 1.17-2.79	2-320571-4	—		
		5/16 M8	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Red	.046-.110 1.17-2.79	2-320572-3	—		
		3/8	.531 13.49	.546 13.87	1.012 25.70	1.280 32.51	Red/Red	.046-.110 1.17-2.79	2-320573-2	—		
		1/2 M12	.713 18.11	.530 13.46	.996 25.30	1.355 34.42	Red/Red	.046-.110 1.17-2.79	2-328975-2	—		
		18 1,900 [0.96]	.033 0.84	4	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/White	.056-.110 1.42-2.79	52273-2*	—
				6 M3.5	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/White	.056-.110 1.42-2.79	2-36149-5*	—
.250 6.35	.250 6.35				.716 18.19	.844 21.44	Red/White	.056-.110 1.42-2.79	51863-4*	51863-7		
8 M4	.312 7.92			.281 7.14	.747 18.97	.906 23.01	Red/White	.056-.110 1.42-2.79	1-320551-4*	1-320551-8		
10	.312 7.92			.281 7.14	.747 18.97	.906 23.01	Red/White	.056-.110 1.42-2.79	2-36153-5*	2-36153-9		
1/4 M6	.469 11.91			.437 11.10	.903 22.94	1.140 28.96	Red/White	.056-.110 1.42-2.79	2-320571-5	—		
5/16 M8	.469 11.91			.437 11.10	.903 22.94	1.140 28.96	Red/White	.056-.110 1.42-2.79	2-320572-4	2-320574-7		
3/8	.531 13.49			.546 13.87	1.012 25.70	1.280 32.51	Red/White	.056-.110 1.42-2.79	2-320573-3	—		
1/2 M12	.713 18.11			.530 13.46	.996 25.30	1.355 34.42	Red/White	.056-.110 1.42-2.79	2-328975-3	—		
16 2,800 [1.42]	.033 0.84			4	.250 6.35	.171 4.34	.637 16.18	.765 19.43	Blue/Blue	.063-.130 1.60-3.30	52274	—
				6 M3.5	.250 6.35	.171 4.34	.637 16.18	.765 19.43	Blue/Blue	.063-.130 1.60-3.30	2-320561-3*	2-320561-5
					.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Blue	.063-.130 1.60-3.30	51864-6*	1-51864-2
		8 M4	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Blue	.063-.130 1.60-3.30	1-51864-0*	1-51864-6		
		10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Blue	.063-.130 1.60-3.30	51864-7*	—		
		1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Blue/Blue	.063-.130 1.60-3.30	2-320563-3	—		
		5/16 M8	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Blue/Blue	.063-.130 1.60-3.30	2-320575-2	—		
		3/8	.531 13.49	.546 13.87	1.012 25.70	1.280 32.51	Blue/Blue	.063-.130 1.60-3.30	2-320564-1	—		
		1/2 M12	.713 18.11	.530 13.46	.996 25.30	1.355 34.42	Blue/Blue	.063-.130 1.60-3.30	2-328976-1	—		

\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Insulation Restricting)

(Continued)

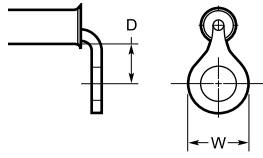
Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Range	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
14 4,234 [2.15]	.033 0.84	4	.250 6.35	.171 4.34	.637 16.18	.765 19.43	Blue/Green	.078-.130 1.98-3.30	52274-1	—
		6 M3.5	.250 6.35	.171 4.34	.637 16.18	.765 19.43	Blue/Green	.078-.130 1.98-3.30	2-320561-4	—
			.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Green	.078-.130 1.98-3.30	51864-8*	1-51864-4
		8 M4	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Green	.078-.130 1.98-3.30	1-51864-1*	1-51864-7
		10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Blue/Green	.078-.130 1.98-3.30	51864-9*	1-51864-5
		1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Blue/Green	.078-.130 1.98-3.30	2-320563-4	—
		5/16 M8	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Blue/Green	.078-.130 1.98-3.30	2-320575-3	—
		3/8	.531 13.49	.546 13.87	1.012 25.70	1.280 32.51	Blue/Green	.078-.130 1.98-3.30	2-320564-2	—
		1/2 M12	.713 18.11	.530 13.46	.996 25.30	1.355 34.42	Blue/Green	.078-.130 1.98-3.30	2-328976-2	—
		12 6,654 [3.37]	.042 1.07	6 M3.5	.375 9.53	.302 7.67	.958 24.33	1.148 29.16	Yellow/Yellow	.095-.200 2.41-5.08
8 M4	.375 9.53			.302 7.67	.958 24.33	1.148 29.16	Yellow/Yellow	.095-.200 2.41-5.08	2-320568-2*	—
10	.375 9.53			.302 7.67	.958 24.33	1.148 29.16	Yellow/Yellow	.095-.200 2.41-5.08	2-36161-3*	—
1/4 M6	.531 13.49			.468 11.89	1.124 28.55	1.392 35.36	Yellow/Yellow	.095-.200 2.41-5.08	2-320569-5	—
5/16 M8	.531 13.49			.468 11.89	1.124 28.55	1.392 35.36	Yellow/Yellow	.095-.200 2.41-5.08	2-320576-2	—
3/8	.593 15.06			.531 13.49	1.187 30.15	1.486 37.74	Yellow/Yellow	.095-.200 2.41-5.08	2-320577-1	—
1/2 M12	.715 18.16			.474 12.04	1.130 28.70	1.490 37.85	Yellow/Yellow	.095-.200 2.41-5.08	52077-1	—
6 M3.5	.375 9.53			.302 7.67	.958 24.33	1.148 29.16	Yellow/Brown	.119-.200 3.02-5.08	2-36161-6	3-36161-0
8 M4	.375 9.53			.302 7.67	.958 24.33	1.148 29.16	Yellow/Brown	.119-.200 3.02-5.08	2-320568-3*	—
10	.375 9.53			.302 7.67	.958 24.33	1.148 29.16	Yellow/Brown	.119-.200 3.02-5.08	2-36161-4	2-36161-8
10 12,066 [6.11]	.042 1.07	1/4 M6	.531 13.49	.468 11.89	1.124 28.55	1.392 35.36	Yellow/Brown	.119-.200 3.02-5.08	2-320569-6	2-320569-8
		5/16 M8	.531 13.49	.468 11.89	1.124 28.55	1.392 35.36	Yellow/Brown	.119-.200 3.02-5.08	2-320576-3	—
		3/8	.593 15.06	.531 13.49	1.187 30.15	1.486 37.74	Yellow/Brown	.119-.200 3.02-5.08	2-320577-2	—
		1/2 M12	.715 18.16	.474 12.04	1.130 28.70	1.490 37.85	Yellow/Brown	.119-.200 3.02-5.08	52077-2	—

\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
90° Bend



**Material**  
**Insulation**-Vinyl, UL 94V-0  
**Terminal Body and Metallic Sleeve**-Copper per ASTM B-152  
**Plating**-Tin per ASTM B-545

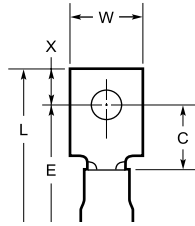
**Related Product Data**  
**Insulation Color Code**-pg. 4  
**Packaging Quantities**-pg. 4  
**Performance Specifications**-pgs. 4 & 5  
**Application Tooling**-pg. 66

	Wire Size Cicular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number
				W	D Min.			Loose Piece
Vinyl	22-16 509-3,260 [0.26-1.65]	<b>.033</b> 0.84	10	<b>.312</b> 7.92	<b>.157</b> 3.99	Red	<b>.140</b> 3.56	55148-1
Nylon	12-10 5,180-13,100 [2.62-6.64]	<b>.040</b> 1.02	6	<b>.375</b> 9.53	<b>.206</b> 5.23	Yellow	<b>.250</b> 6.35	696020-1



**PIDG Terminals and Splices** (Continued)

**Rectangular Tongue Terminals**



**Material**

**Insulation** -Nylon except where noted.

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152 except where noted.

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted		
26-22 202-810 [0.10-0.41]	<b>.020</b> 0.51	2 M2	.182 4.62	.211 5.36	.542 13.77	.647 16.43	.100 2.54	Yellow	.082 2.08	321206 <sup>2</sup>	—		
		6 M3.5	.277 7.04	.308 7.82	.643 16.33	.783 19.89	.130 3.30	Yellow	.082 2.08	330250	—		
		2 M2	.182 4.62	.203 5.16	.607 15.42	.727 18.47	.115 2.92	Red	.125 3.18	325148	—		
		4	.237 6.02	.237 6.02	.643 16.33	.796 20.22	.143 3.63	Red	.140 3.56	2-327968-1	—		
			.237 6.02	.404 10.26	.810 20.57	1.015 25.78	.195 4.95	Red	.140 3.56	327962	—		
		5 M3	.250 6.35	.187 4.75	.591 15.01	.736 18.69	.140 3.56	Red	.140 3.56	55777-1	—		
			.277 7.04	.277 7.04	.702 17.83	.855 21.72	.143 3.63	Red	.140 3.56	2-327950-1	—		
		22-16 509-3,260 [0.26-1.65]	<b>.033</b> 0.84	6 M3.5	.237 6.02	.404 10.26	.810 20.57	1.015 25.78	.195 4.95	Red	.140 3.56	2-327956-1	—
					.250 6.35	.312 7.92	.716 18.19	.846 21.49	.125 3.18	Red	.125 3.18	320629	2-320629-1
				8 M4	.250 6.35	.312 7.92	.716 18.19	.846 21.49	.125 3.18	Red	.140 3.56	33476*	2-33476-1
					.302 7.67	.465 11.81	.872 22.15	1.109 28.17	.227 5.77	Red	.140 3.56	2-327938-1	2-327938-2
				10	.302 7.67	.465 11.81	.872 22.15	1.109 28.17	.227 5.77	Red	.140 3.56	327944*	2-327944-2
.390 9.91	.621 15.77				1.039 26.39	1.359 34.52	.310 7.87	Red	.140 3.56	327932	—		
16-14 2,050-5,180 [1.04-2.62]	<b>.033</b> 0.84	4	.312 7.92	.281 7.14	.685 17.40	.893 22.68	.203 5.16	Red	.140 3.56	320209*	—		
			.237 6.02	.237 6.02	.643 16.33	.796 20.22	.143 3.63	Blue	.150 3.81	2-327970-4	—		
		5 M3	.237 6.02	.404 10.26	.810 20.57	1.015 25.78	.195 4.95	Blue	.150 3.81	2-327964-4	—		
			.244 6.20	.312 7.92	.716 18.19	.856 21.74	.125 3.18	Blue	.150 3.81	—	55694-1 <sup>1</sup>		
		5 M3	.277 7.04	.277 7.04	.702 17.83	.855 21.72	.143 3.63	Blue	.150 3.81	2-327952-2	—		

\*Available in small packaging quantities.

<sup>1</sup>Insulation - Vinyl

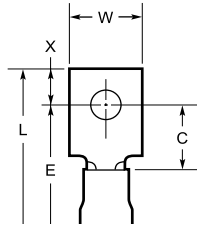
<sup>2</sup>Terminal Body - Brass per MIL-C-50.

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

**PIDG Terminals and Splices** (Continued)

**Rectangular Tongue Terminals**

(Continued)



**Material**

**Insulation** -Nylon except where noted.

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** - pg. 66

PIDG Terminals and Splices

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted		
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.237 6.02	.404 10.26	.810 20.57	1.015 25.78	.195 4.95	Blue	.150 3.81	2-327958-4	—		
			.237 6.02	.404 10.26	.810 20.57	1.015 25.78	.195 4.95	Blue	.170 4.32	2-327958-1	—		
			.244 6.20	.312 7.92	.716 18.19	.856 21.74	.125 3.18	Blue	.150 3.81	33172	—		
			.244 6.20	.312 7.92	.716 18.19	.856 21.74	.125 3.18	Blue	.170 4.32	33173*	—		
			.296 7.52	.203 5.16	.607 15.42	.752 19.10	.140 3.56	Blue	.150 3.81	33168	—		
			.302 7.67	.465 11.81	.872 22.15	1.109 28.17	.227 5.77	Blue	.150 3.81	2-327940-4	—		
		8 M4	.244 6.20	.312 7.92	.716 18.19	.856 21.74	.125 3.18	Blue	.170 4.32	35279	—		
			.296 7.52	.343 8.71	.747 18.97	.939 23.85	.187 4.75	Blue	.170 4.32	321283*	—		
			.302 7.67	.465 11.81	.872 22.15	1.109 28.17	.227 5.77	Blue	.150 3.81	2-327946-4	—		
			.390 9.91	.621 15.77	1.039 26.39	1.359 34.52	.310 7.87	Blue	.150 3.81	2-327934-2	—		
			10	.312 7.92	.281 7.14	.685 17.40	.940 23.88	.250 6.35	Blue	.170 4.32	324603	—	
				.237 6.02	.237 6.02	.831 21.11	.984 24.99	.143 3.63	Yellow	.230 5.84	327972	—	
		12-10 5,180-13,100 [2.62-6.64]	.042 1.07	4	.237 6.02	.404 10.26	.998 25.35	1.203 30.56	.195 4.95	Yellow	.230 5.84	327966	—
					.277 7.04	.277 7.04	.889 22.58	1.042 26.47	.143 3.63	Yellow	.230 5.84	327954	2-327954-2
6 M3.5	.237 6.02			.404 10.26	.998 25.35	1.203 30.56	.195 4.95	Yellow	.230 5.84	2-327960-1-2-327960-2	—		
	.250 6.35			.302 7.67	.893 22.68	1.085 27.56	.187 4.75	Yellow	.230 5.84	329697	—		
	.290 7.37			.218 5.54	.809 20.55	.954 24.23	.140 3.56	Yellow	.230 5.84	34512	—		
	.302 7.67			.465 11.81	1.044 26.52	1.281 32.54	.227 5.77	Yellow	.230 5.84	327942	—		
	.302 7.67			.465 11.81	1.044 26.52	1.281 32.54	.227 5.77	Yellow	.230 5.84	327948	—		
	.302 7.67			.465 11.81	1.077 27.36	1.247 31.67	.160 4.06	Yellow	.230 5.84	331268	2-331268-1		
8 M4	.390 9.91			.621 15.77	1.211 30.76	1.531 38.89	.310 7.87	Yellow	.230 5.84	327936	—		

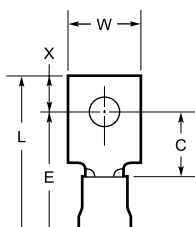
\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Rectangular Tongue Terminals**

(Continued)



**Material**

**Insulation** -Nylon, UL 94V-2

**Terminal Body** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Metallic Sleeve** -Copper per ASTM B-152

**Plating** - Nickel per QQ-N-290

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

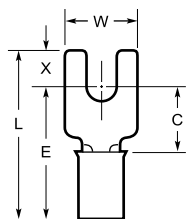
**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Range	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
24 475 [0.24]	.020 0.51	6 M3.5	.312 7.92	.308 7.82	.683 17.35	.875 22.23	.187 4.75	Yellow/Blue	.031-.055 0.79-1.40	2-326876-2	
10 12,066 [6.11]	.042 1.07	5 M3	.277 7.04	.277 7.04	.934 23.72	1.087 27.61	.143 3.63	Yellow/Brown	.119-.200 3.02-5.08	53912-2	
		8 M4	.390 9.91	.621 15.77	1.276 32.41	1.596 40.54	.310 7.87	Yellow/Brown	.119-.200 3.02-5.08	53914-2	

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

**Spade Tongue Terminals**



**Material**

**Insulation** -Nylon, UL 94V-2

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
26-24 238-475 [0.12-0.24]	.029 0.74	6 M3.5	.250 6.35	.211 5.36	.632 16.05	.709 18.01	.072 1.83	Yellow	.095 2.41	—	53115-2
26-22 202-810 [0.10-0.41]	.020 0.51	0	.125 3.18	.078 1.98	.409 10.39	.476 12.09	.062 1.57	Yellow	.082 2.08	322001	—
		4	.203 5.16	.211 5.36	.542 13.77	.627 15.93	.076 1.93	Yellow	.082 2.08	321035*	2-321035-1
22-16 509-3,260 [0.26-1.65]	.033 0.84	2 M2	.182 4.62	.203 5.16	.607 15.42	.727 18.47	.115 2.92	Red	.140 3.56	328394*	2-328394-1
			4	.218 5.54	.156 3.96	.560 14.22	.674 17.12	.109 2.77	Red	.125 3.18	1-327717-0
		4		.218 5.54	.156 3.96	.560 14.22	.674 17.12	.109 2.77	Red	.140 3.56	327717*
			6 M3.5	.250 6.35	.312 7.92	.716 18.19	.846 21.49	.125 3.18	Red	.140 3.56	34541*
		6 M3.5		.297 7.54	.203 5.16	.607 15.42	.753 19.13	.141 3.58	Red	.125 3.18	34080*
			6 M3.5	.297 7.54	.203 5.16	.607 15.42	.753 19.13	.141 3.58	Red	.140 3.56	326861*
		6 M3.5		.344 8.74	.218 5.54	.622 15.80	.783 19.89	.156 3.96	Red	.125 3.18	32403
			6 M3.5	.344 8.74	.218 5.54	.622 15.80	.783 19.89	.156 3.96	Red	.140 3.56	32404
		8 M4		.375 9.53	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Red	.125 3.18	32050*
			8 M4	.375 9.53	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Red	.140 3.56	32053*
		10		.375 9.53	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Red	.125 3.18	32051*
			10	.375 9.53	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Red	.140 3.56	32054*

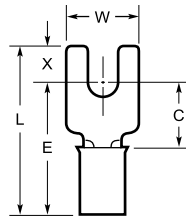
\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Spade Tongue Terminals**

(Continued)



**Material**

**Insulation** -Nylon, UL 94V-2

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pg. 66

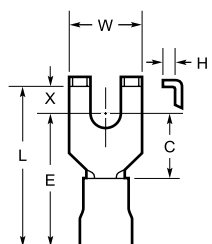
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted		
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.244 6.20	.312 7.92	.716 18.19	.846 21.49	.125 3.18	Blue	.170 4.32	328281*	1-328281-1		
			.297 7.54	.203 5.16	.607 15.42	.753 19.13	.141 3.58	Blue	.170 4.32	35559*	2-35559-1		
			.385 9.78	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Blue	.170 4.32	32058*	—		
		8 M4	.297 7.54	.203 5.16	.607 15.42	.753 19.13	.141 3.58	Blue	.170 4.32	321233*	2-321233-1		
			.312 7.92	.375 9.53	.779 19.79	1.034 26.26	.250 6.35	Blue	.170 4.32	325199	—		
			.385 9.78	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Blue	.150 3.81	32056*	2-32056-1		
			.385 9.78	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Blue	.170 4.32	32059*	2-32059-1		
			.385 9.78	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Blue	.150 3.81	32057	—		
			.385 9.78	.312 7.92	.716 18.19	.908 23.06	.187 4.75	Blue	.170 4.32	32060*	2-32060-1		
		12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6 M3.5	.290 7.37	.218 5.54	.809 20.55	.954 24.23	.140 3.56	Yellow	.230 5.84	322985*	1-322985-0
					.312 7.92	.296 7.52	.887 22.53	1.095 27.81	.203 5.16	Yellow	.230 5.84	326859*	2-326859-1
				8 M4	.312 7.92	.468 11.89	1.059 26.90	1.314 33.38	.250 6.35	Yellow	.230 5.84	325197	—
.406 10.31	.296 7.52				.887 22.53	1.095 27.81	.203 5.16	Yellow	.230 5.84	32588*	2-32588-1		
.406 10.31	.296 7.52				.887 22.53	1.095 27.81	.203 5.16	Yellow	.250 6.35	35152*	2-35152-1		
10	.406 10.31			.296 7.52	.887 22.53	1.095 27.81	.203 5.16	Yellow	.230 5.84	32589*	2-32589-1		

\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Flanged Spade Tongue Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions						Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	C Max.	E Max.	L Max.	X Min.			H Min.	Loose Piece	Tape Mounted	
26-22 202-810 [0.10-0.41]	.020 0.51	2 M2	.182 4.62	.203 5.16	.534 13.56	.649 16.48	.110 2.79	.026 0.66	Yellow	.082 2.08	324597*	2-324597-1		
		4	.193 4.90	.203 5.16	.534 13.56	.649 16.48	.110 2.79	.026 0.66	Yellow	.082 2.08	52369*	52369-1		
		6 M3.5	.250 6.35	.203 5.16	.534 13.56	.649 16.48	.110 2.79	.026 0.66	Yellow	.082 2.08	51874*	51874-1		
22-16 509-3,260 [0.26-1.65]	.033 0.84	2 M2	.182 4.62	.203 5.16	.607 15.42	.727 18.47	.115 2.92	.041 1.04	Red	.125 3.18	2-324608-2	—		
			.182 4.62	.203 5.16	.607 15.42	.727 18.47	.115 2.92	.041 1.04	Red	.140 3.56	324608*	2-324608-1		
		6 M3.5	.250 6.35	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.125 3.18	322777*	2-322777-1		
			.265 6.73	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.140 3.56	322426	—		
		6 M3.5	.296 7.52	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.125 3.18	32561*	2-32561-1		
			.296 7.52	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.140 3.56	32562*	2-32562-1		
		8 M4	.328 8.33	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.140 3.56	324557	2-324557-1		
			.296 7.52	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.046 1.17	Red	.140 3.56	2-32562-2	2-32562-3		
		10	.416 10.57	.250 6.35	.654 16.61	.830 21.08	.171 4.34	.062 1.57	Red	.125 3.18	32497	2-32497-1		
			.416 10.57	.250 6.35	.654 16.61	.830 21.08	.171 4.34	.062 1.57	Red	.140 3.56	32498*	2-32498-1		
		16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.294 7.47	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.047 1.19	Blue	.150 3.81	2-320861-2	2-320861-3
					.294 7.47	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.047 1.19	Blue	.170 4.32	320861*	2-320861-1
8 M4	.328 8.33			.203 5.16	.607 15.42	.737 18.72	.125 3.18	.047 1.19	Blue	.170 4.32	324567*	—		
	.294 7.47			.203 5.16	.607 15.42	.737 18.72	.125 3.18	.047 1.19	Blue	.170 4.32	320862*	2-320862-1		
10	.416 10.57			.250 6.35	.654 16.61	.830 21.08	.171 4.34	.062 1.57	Blue	.150 3.81	33155*	—		
	.416 10.57			.250 6.35	.654 16.61	.830 21.08	.171 4.34	.062 1.57	Blue	.170 4.32	33156	2-33156-1		
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6 M3.5	.294 7.47	.203 5.16	.607 15.42	.737 18.72	.125 3.18	.052 1.32	Yellow	.230 5.84	320863*	2-320863-2		
			.296 7.52	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.230 5.84	324577*	1-324577-0		
		8 M4	.296 7.52	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.250 6.35	325150*	—		
			.328 8.33	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.230 5.84	324587	—		
		10	.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.230 5.84	32510*	2-32510-1		
			.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.230 5.84	326865	2-326865-1		
10	.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.250 6.35	324015*	2-324015-1				
	.416 10.57	.250 6.35	.841 21.36	1.017 25.83	.171 4.34	.052 1.32	Yellow	.250 6.35	324015*	2-324015-1				

\*Available in small packaging quantities.

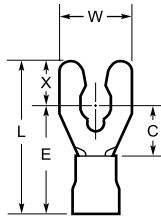
**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole.

PIDG Terminals and Splices



**PIDG Terminals and Splices** (Continued)

**Short Spring Spade  
Tongue Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body** -Phosphor Bronze per ASTM B-139  
**Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

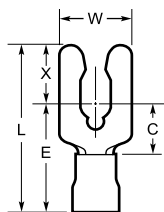
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted		
26-22 202-810 [0.10-0.41]	.020 0.51	2 M2	.171 4.34	.206 5.23	.537 13.64	.651 16.54	.109 2.77	Yellow	.082 2.08	52921*	52921-1		
		4	.203 5.16	.219 5.56	.550 13.97	.695 17.65	.140 3.56	Yellow	.082 2.08	52922*	52922-1		
		5 M3	.250 6.35	.203 5.16	.534 13.56	.679 17.25	.140 3.56	Yellow	.082 2.08	52923	52923-1		
		6 M3.5	.250 6.35	.203 5.16	.534 13.56	.679 17.25	.140 3.56	Yellow	.082 2.08	52924*	52924-1		
		8 M4	.375 9.53	.281 7.14	.612 15.54	.787 19.99	.170 4.32	Yellow	.082 2.08	52925	52925-1		
		4	.203 5.16	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Red	.125 3.18	52927*	52927-1		
		5 M3	.250 6.35	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Red	.125 3.18	52928*	52928-1		
		6 M3.5	.250 6.35	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Red	.125 3.18	52929*	52929-1		
22-16 509-3,260 [0.26-1.65]	.033 0.84	8 M4	.244 6.20	.281 7.14	.725 18.42	.895 22.73	.170 4.32	Red	.140 3.56	—	55768-1		
			.375 9.53	.281 7.14	.685 17.40	.860 21.84	.170 4.32	Red	.125 3.18	52930*	52930-1		
		10	.375 9.53	.281 7.14	.685 17.40	.860 21.84	.170 4.32	Red	.140 3.56	—	52930-3		
			.406 10.31	.281 7.14	.685 17.40	.908 23.06	.218 5.54	Red	.125 3.18	52931*	52931-1		
		1/4 M6	.406 10.31	.281 7.14	.685 17.40	.908 23.06	.218 5.54	Red	.140 3.56	—	52931-3		
			.625 15.88	.343 8.71	.747 18.97	1.033 26.24	.281 7.14	Red	.125 3.18	52933*	—		
		16-14 2,050-5,180 [1.04-2.62]	.033 0.84	5 M3	.250 6.35	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Blue	.170 4.32	52934*	52934-1
				6 M3.5	.250 6.35	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Blue	.170 4.32	52935*	52935-1
					.250 6.35	.250 6.35	.654 16.61	.799 20.29	.140 3.56	Blue	.182 4.62	52935-2*	52935-3
				8 M4	.375 9.53	.281 7.14	.685 17.40	.860 21.84	.170 4.32	Blue	.170 4.32	52936*	52936-1
.375 9.53	.281 7.14				.685 17.40	.860 21.84	.170 4.32	Blue	.182 4.62	52936-2	52936-3		
10	.406 10.31			.281 7.14	.685 17.40	.908 23.06	.218 5.54	Blue	.170 4.32	52937*	52937-1		
	.406 10.31			.281 7.14	.685 17.40	.908 23.06	.218 5.54	Blue	.182 4.62	52937-2*	52937-3		
1/4 M6	.625 15.88			.343 8.71	.747 18.97	1.033 26.24	.281 7.14	Blue	.170 4.32	52939	—		
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	5 M3	.250 6.35	.169 4.29	.770 19.56	.959 24.36	.184 4.67	Yellow	.250 6.35	52940*	52940-1		
		6 M3.5	.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	Yellow	.250 6.35	52941*	52941-1		
		8 M4	.375 9.53	.276 7.01	.877 22.28	1.052 26.72	.170 4.32	Yellow	.250 6.35	52942*	52942-1		
		10	.406 10.31	.276 7.01	.877 22.28	1.100 27.94	.218 5.54	Yellow	.250 6.35	52943*	52943-1		
		1/4 M6	.625 15.88	.338 8.59	.939 23.85	1.225 31.12	.281 7.14	Yellow	.250 6.35	52945*	—		

\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Long Spring Spade Tongue Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body** -Phosphor Bronze per ASTM B-139  
**Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

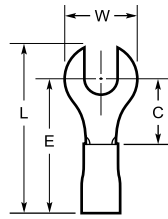
Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
26-22 202-810 [0.10-0.41]	.020 0.51	6	.250	.235	.566	.847	.276	Yellow	.082 2.08	52403	52403-1
		M3.5	6.35	5.97	14.38	21.51	7.01				
22-16 509-3,260 [0.26-1.65]	.033 0.84	4	.203	.201	.615	.896	.276	Red	.125 3.18	52408	—
		M3.5	5.16	5.11	15.62	22.76	7.01				
		6	.250	.238	.652	.933	.276	Red	.125 3.18	52409*	52409-1
		M3.5	6.35	6.05	16.56	23.70	7.01				
		8	.281	.270	.684	.979	.290	Red	.125 3.18	52410*	52410-1
		M4	7.14	6.86	17.37	24.87	7.37				
10	.343	.283	.697	1.005	.303	Red	.125 3.18	52411*	52411-1		
M4	8.71	7.19	17.70	25.53	7.70						
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6	.250	.238	.652	.933	.276	Blue	.150 3.81	52420*	52420-2
		M3.5	6.35	6.05	16.56	23.70	7.01				
		8	.281	.270	.684	.979	.290	Blue	.150 3.81	52421*	—
		M4	7.14	6.86	17.37	24.87	7.37				
		10	.343	.283	.697	1.005	.303	Blue	.170 4.32	52421-1*	52421-3
		M4	8.71	7.19	17.70	25.53	7.70				
		1/4	.437	.345	.759	1.102	.338	Blue	.150 3.81	52423	52423-2
		M6	11.10	8.76	19.28	27.99	8.59				
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6	.312	.242	.843	1.131	.283	Yellow	.230 5.84	52430	52430-2
		M3.5	7.92	6.15	21.41	28.73	7.19				
		8	.375	.273	.874	1.174	.295	Yellow	.250 6.35	52430-1	52430-3
		M4	9.53	6.93	22.20	29.82	7.49				
		10	.375	.305	.906	1.219	.308	Yellow	.230 5.84	—	52432-2
		M4	9.53	7.75	23.01	30.96	7.82				
1/4	.437	.345	.946	1.289	.338	Yellow	.250 6.35	52432-1	52432-3		
M6	11.10	8.76	24.03	32.74	8.59						

\*Available in small packaging quantities.

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

**PIDG Terminals and Splices** (Continued)

**Slotted Ring Tongue Terminals**



**Material**

**Insulation** -Nylon except where noted.

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 66

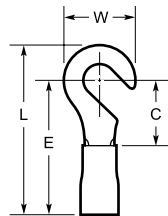
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
26-22 202-810 [0.10-0.41]	.020 0.51	6	.250	.281	.612	.719	Yellow	.082 2.08	323011	2-323011-2
		M3.5	6.35	7.14	15.54	18.26				
22-16 509-3,260 [0.26-1.65]	.033 0.84	6	.312	.281	.685	.828	Red	.140 3.56	35216*	2-35216-1
		M3.5	7.92	7.14	17.40	21.03				
		8	.281	.250	.654	.770	Red	.140 3.56	36954*	2-36954-2
		M4	7.14	6.35	16.61	19.56				
10	.312	.281	.685	.812	Red	.125 3.18	331453	1-331453-0		
M6	7.92	7.14	17.40	20.62						
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6	.343	.281	.685	.844	Blue	.170 4.32	34406	—
		M3.5	8.71	7.14	17.40	21.44				
16-14 HD 2,050-5,180 [1.04-2.62]	.048 1.22	8	.344	.281	.685	.837	Blue	.170 4.32	35440	—
		M4	8.74	7.14	17.40	21.26				
16-14 HD 2,050-5,180 [1.04-2.62]	.048 1.22	3/8	.750	.625	1.216	1.594	Yellow/Black	.250 6.35	696077-2	696077-1
		M6	19.05	15.88	30.89	40.49				
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	1/4	.531	.468	1.156	1.390	Yellow	.300 7.62	321611 <sup>1</sup>	—
		M6	13.49	11.89	29.36	35.31				
12-10 5,180-13,100 [2.62-6.64]	.040 1.02	3/8	.750	.625	1.216	1.594	Yellow	.250 6.35	696076-2	696076-1
		M6	19.05	15.88	30.89	40.49				

\*Available in small packaging quantities.

<sup>1</sup>Insulation — Vinyl.

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

**Hook Tongue Terminals**



**Material**

**Insulation** -Nylon except where noted.

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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]	0.84 .033	6	.281	.203	.607	.750	Red	.140 3.56	34313*	—
		M3.5	7.14	5.16	15.42	19.05				
22-16 509-3,260 [0.26-1.65]	0.84 .033	8	.343	.296	.705	.879	Red	.140 3.56	32456	—
		M4	8.71	7.52	17.91	22.33				
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6	.343	.281	.685	.859	Blue	.150 3.81	320381	2-320381-1
		M3.5	8.71	7.14	17.40	21.82				
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	8	.343	.281	.685	.859	Blue	.170 4.32	320306*	2-320306-1
		M4	8.71	7.14	17.40	21.82				
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	10	.343	.281	.685	.859	Blue	.170 4.32	35481 <sup>1</sup>	—
		M6	8.71	7.14	17.40	21.82				

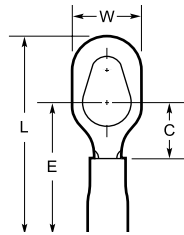
\*Available in small packaging quantities.

<sup>1</sup>Insulation — Vinyl.

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

**PIDG Terminals and Splices** (Continued)

**Multiple Stud Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545  
**Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Nickel per QQ-N-290

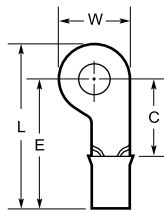
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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	6-8-10	.325 8.26	.281 7.14	.685 17.40	.957 24.31	Red	.125 3.18	54771-1*	54771-2
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6-8-10	.325 8.26	.302 7.67	.893 22.68	1.165 29.59	Yellow	.230 5.84	54773-1*	—

\*Available in small packaging quantities.

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

**Offset Ring Tongue Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

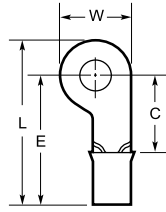
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers
			W	C Min.	E Max.	L Max.			Loose Piece
22-16 509-3,260 [0.26-1.65]	.033 0.84	6	.375 9.53	.312 7.92	.716 18.19	.906 23.01	Red	.125 3.18	323039
		M3.5	.375 9.53	.312 7.92	.716 18.19	.906 23.01	Red	.125 3.18	324011
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6	.375 9.53	.312 7.92	.716 18.19	.906 23.01	Blue	.150 3.81	323817
		10	.375 9.53	.312 7.92	.716 18.19	.906 23.01	Blue	.150 3.81	323818

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

**PIDG Terminals and Splices** (Continued)

**Offset Ring Tongue Terminals**  
(Insulation Restricting)



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

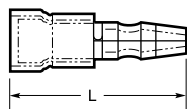
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Range	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	
22 754 [0.38]	.033 0.84	6 M3.5	.375 9.53	.312 7.92	.758 19.25	.946 24.03	Red/Green	.038-.110 0.97-2.79		52284-4
20 1,186 [0.60]	.033 0.84	6 M3.5	.375 9.53	.312 7.92	.758 19.25	.946 24.03	Red/Red	.046-.110 1.17-2.79		52284-2
		10	.375 9.53	.312 7.92	.758 19.25	.946 24.03	Red/Red	.046-.110 1.17-2.79		52284-3
16 2,800 [1.42]	.033 0.84	6 M3.5	.375 9.53	.312 7.92	.748 19.00	.938 23.83	Blue/Blue	.063-.130 1.60-3.30		52283-2
14 4,234 [2.15]	.033 0.84	10	.375 9.53	.312 7.92	.748 19.00	.938 23.83	Blue/Green	.078-.130 1.98-3.30		52283-1

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

**PIDG Terminals and Splices** (Continued)

**SHUR-PLUG Terminal**



.156 Series

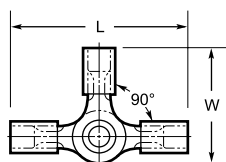
**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling**-pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Dimension	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
	L Max.			Loose Piece	Tape Mounted
16-14 2,050-5,180 [1.04-2.62]	<b>.790</b> 20.07	Blue	<b>.170</b> 4.32	324225*	2-324225-1
16-14 Receptacle 2,050-5,180 [1.04-2.62]	<b>.768</b> 19.51	Blue	<b>.157</b> 3.99	165429-1	—

\*Available in small packaging quantities.

**3-Way Connector Terminal**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152  
**Rivet** -Brass per QQ-B-626  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling**-pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number
		W Max.	L Max.			Loose Piece
16-14 2,050-5,180 [1.04-2.62]	<b>.033</b> 0.84	<b>.859</b> 21.82	<b>1.370</b> 34.80	Blue	<b>.170</b> 4.32	53222-1*

\*Available in small packaging quantities.

**PIDG Terminals and Splices** (Continued)

**Tabs**

**Material**

**Insulation** -Nylon, UL 94V-2

**Terminal Body and Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

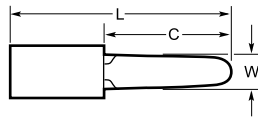
**Related Product Data**

**Insulation Color Code** -pg. 4

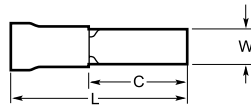
**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

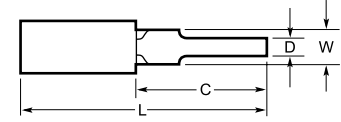
**Application Tooling** -pg. 66



Style A



Style B



Style C

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers Loose Piece
			W	C Min.	L Max.	D			
22-16 509-3,260 [0.26-1.65]	.033 0.84	A	.140 3.56	.480 12.19	.904 22.96	—	Red .140 3.56	34294*	
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	B	.156 3.96	.375 9.53	.809 20.55	—	Blue .170 4.32	327748	
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	C	.225 5.72	.600 15.24	1.194 30.33	.125 3.18	Yellow .230 5.84	324543*	

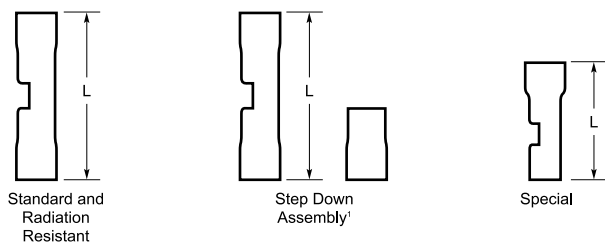
\*Available in small packaging quantities.

**Note:** "C" dimension applies from edge of metal wire barrel to end of tab.



**PIDG Terminals and Splices** (Continued)

**Butt Splices**



**Material**

**Insulation Sleeve** - Standard, Step Down Assembly and Special - Nylon Radiation Resistant - Polyvinylidene Fluoride (PVF<sub>2</sub>)

**Splice Body and Insulation Support Sleeve** - Copper per ASTM B-152

**Plating** - Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mils <sup>2</sup> [mm <sup>2</sup> ]	Style	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
					Loose Piece	Tape Mounted
26-24 <sup>3</sup> 238-475 [0.12-0.24]	Standard	.890 22.61	Yellow	.082 2.08	323994	2-323994-1
26-22 202-810 [0.10-0.41]		.890 22.61	Yellow	.082 2.08	2-323994-2*	—
24-20 320-1,290 [0.16-0.65]		1.035 26.29	Natural	.100 2.54	323975	2-323975-3
22-16 <sup>4</sup> 509-3,260 [0.26-1.65]		1.265 32.13	Red	.125 3.18	320559*	2-320559-4
16-14 2,050-5,180 [1.04-2.62]		1.265 32.13	Blue	.150 3.81	320562*	2-320562-3
12-10 5,180-13,100 [2.62-6.64]		1.656 42.06	Yellow	.220 5.59	320570*	2-320570-3 <sup>1</sup>
16-14 22-18 2,050-5,180 to 509-1,900 [1.04-2.62] [0.26-0.96]	Step Down Assembly	1.265 32.13	Blue	.150/.115 3.81/2.92	327583	2-327583-1
12-10 22-18 5,180-13,100 to 509-1,900 [2.62-6.64] [0.26-0.96]		1.656 42.06	Yellow	.220/.140 5.59/3.56	327639	—
12-10 16-14 5,180-13,100 to 2,050-5,180 [2.62-6.64] [1.04-2.62]		1.656 42.06	Yellow	.220/.170 5.59/4.32	327638	—
26-24 <sup>3</sup> 238-475 [0.12-0.24]	Radiation Resistant	.890 22.61	Natural w/ Yellow Stripes	.082 2.08	53546-1	—
26-22 202-810 [0.10-0.41]		.890 22.61	Natural w/ Yellow Stripes	.082 2.08	53546-3	—
24-20 320-1,290 [0.16-0.65]		1.035 26.29	Natural w/ White Stripes	.100 2.54	53547-1	53547-2
22-16 <sup>4</sup> 509-3,260 [0.26-1.65]		1.265 32.13	Natural w/ Red Stripes	.125 3.18	53548-1*	53548-2
16-14 2,050-5,180 [1.04-2.62]		1.265 32.13	Natural w/ Blue Stripes	.150 3.81	53549-1*	53549-2
12-10 5,180-13,100 [2.62-6.64]		1.656 42.06	Natural w/ Yellow Stripes	.220 5.59	53550-1*	—
12-10 5,180-13,100 [2.62-6.64]	Special	1.245 31.62	Yellow	.220 5.59	328961 <sup>5</sup>	—

\*Available in small packaging quantities.

<sup>1</sup>Includes adapter insert.

<sup>2</sup>When using two or more wires in either end of a butt splice, the combined cross sectional area must be within the (CMA) circular mil area range listed.

<sup>3</sup>26-24 range in accordance with MIL-T-7928.

<sup>4</sup>22-16 splices are 22-18 range in accordance with MIL-T-7928.

<sup>5</sup>12-10 butt splice, threaded 8-32 one end.

<sup>1</sup>AMP-TAPETRONIC machine tools only.

**PIDG Terminals and Splices** (Continued)

**Butt Splice Step Down Adapter Inserts<sup>1</sup>**



**Material**  
**Adapter Body** -Copper per ASTM B-152  
**Plating** -Zinc Plate/ DyeChromate

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

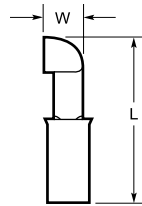
Butt Splice		Adapter Insert			
Wire Size Circular Mils [mm <sup>2</sup> ]	Part No.	Wire Size Circular Mils [mm <sup>2</sup> ]	Dimension L	Color Code	Part Numbers
16-14 2,050-5,180 [1.04-2.62]	320562	22-18 509-1,900 [0.26-0.96]	<b>.350</b> 8.89	Red	1-327635-1
			<b>.402</b> 10.21	Red	327635*
12-10 5,180-13,100 [2.62-6.64]	320570	22-18 509-1,900 [0.26-0.96]	<b>.562</b> 14.27	Red	327636*
		16-14 2,050-5,180 1.04-2.62]	<b>.562</b> 14.27	Blue	327637*

\*Available in small packaging quantities.

<sup>1</sup>Adapter inserts can be ordered separately for use in specific Standard PIDG Butt Splices.

PIDG Terminals and Splices

**Knife Disconnect Splices**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Splice Body and Metallic Sleeve** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Material Thickness	Dimensions		Splice Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
		W	L Max.			Loose Piece	Tape Mounted
22-16 509-3,260 [0.26-1.65]	<b>.031</b> 0.79	<b>.203</b> 5.16	<b>.878</b> 22.30	Red	<b>.125</b> 3.18	320555*	—
		<b>.203</b> 5.16	<b>.878</b> 22.30	Red	<b>.140</b> 3.56	32446*	2-32446-1
16-14 2,050-5,180 [1.04-2.62]	<b>.031</b> 0.79	<b>.203</b> 5.16	<b>.878</b> 22.30	Blue	<b>.150</b> 3.81	320566*	—
		<b>.203</b> 5.16	<b>.878</b> 22.30	Blue	<b>.170</b> 4.32	32448*	—
12-10 5,180-13,100 [2.62-6.64]	<b>.040</b> 1.02	<b>.281</b> 7.14	<b>1.234</b> 31.34	Yellow	<b>.230</b> 5.84	320620*	—
		<b>.281</b> 7.14	<b>1.260</b> 32.00	Yellow	<b>.250</b> 6.35	35762*	—

\*Available in small packaging quantities.

**PIDG FASTON Terminals and Splices**

**Product Facts**

- Pre-insulated terminal designed for uniformed reliability in most difficult circuit environment
- Consists of an unplated or tin-plated brass body or a tin-plated phosphor bronze body with a specially designed copper sleeve and insulation sleeve fitted over the terminal barrel
- Design of the tool dies and construction of the terminal permits uniform insulation thickness under crimping pressure, transmitting this pressure evenly to the center of the crimp area

**The AMP Mated Tool/Terminal Concept**

- AMP compression crimping produces crimps for a given size wire and terminal that are alike in appearance and performance
- Terminal and the crimping tool are designed as uniform matched devices
- Dies are precision-engineered from the finest hard-metal alloys
- Crimping pressure is controlled by a ratchet device on the hand tool or a corresponding pre-calibration in the crimping jaws of AMP automated crimping machines

**The Crimp**

- When done properly, crimping pressure can neither overstress nor under stress the terminal barrel—machined dies fully bottom to the precise crimp height
- Resulting termination is free of contamination
- Resistant to shock and critical environments
- Tensile strength approaches that of the wire itself

**Nylon Insulation.** Nylon sleeve has high dielectric strength.

**Color Coding.** Terminal insulation is color-coded by wire range to prevent errors during installation.

**Copper Sleeve.** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor.

**Funnel Ramp Entry.** Prevents a turned back strand and rapid wire insertion during high speed production.

**Serrations.** Serrations inside barrel provide maximum contact and tensile strength after crimping.

**Basic Terminal Material.** The basic terminal is constructed of fine grade high conductivity brass per ASTM B-36 or phosphor bronze per ASTM B-139. The brass terminal is either unplated or tin-plated per ASTM B-545. The phosphor bronze terminal is tin-plated per ASTM B-545. Tyco Electronics' special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

**Temperature Rating: 105°C Max.**

**AMP PIDG FASTON Terminals (Use TETRA-CRIMP Tooling)**

AMP Wire Range	Component Recognized File E 66717	UL & CSA — Nylon except where noted	LR 7189 Certified
22-18	22-18 Stranded	300 V Max., 105°C. Max. <sup>1</sup>	
16-14	16-14 Stranded		
12-10	12-10 Stranded		

**AMP PIDG FASTON Line Splice Connectors "250" Series**

Component Recognized File E 66717	105°C Max. (Vinyl)	LR 7189 Certified	105°C Max. (Vinyl)
AMP Part No. 1-321235-0 1-321235-1	600 V Max.	AMP Part No. 1-321235-0 1-321235-1	300 V Max.
321235 321688	300 V Max.	321235 321688	300 V Max.

PIDG FASTON Terminals and Splices

**PIDG FASTON Terminals and Splices** (Continued)

**Receptacles**

**Receptacle Style:**

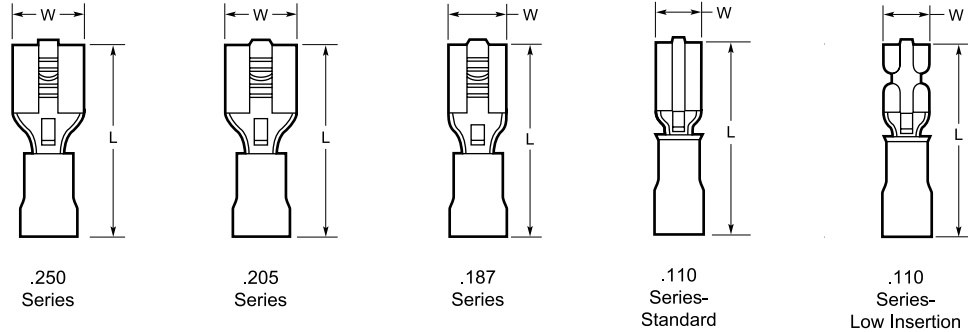
- A** - No dimple with wire stop
- B** - Dimple with wire stop
- C** - No dimple, no wire stop

**Material**

- Insulation** -Nylon, UL 94V-2
- Receptacle Body** -Brass per ASTM B-36 or Phosphor Bronze per ASTM B-139
- Plating** -Tin per ASTM B-545 except where noted.
- Metallic Sleeve** -Copper per ASTM B-152
- Plating** -Tin per ASTM B-545

**Related Product Data**

- Insulation Color Code** -pg. 4
- Packaging Quantities** -pg. 4
- Performance Specifications** -pgs. 4 & 5
- Application Tooling** -pg. 67



Series	Wire Size Circular Mils [mm <sup>2</sup> ]	Style	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers			
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form	
.250	22-18 509-1,900 [0.26-0.96]	B	.300	.900	Red	.140	Brass	.018	.032	640903-1*	640903-2	640902-1	
			7.62	22.86	Red	3.56	Brass	0.46	0.81	55675-1 <sup>2</sup>	55675-2 <sup>2</sup>	—	
	16-14 2,050-5,180 [1.04-2.62]	B	.300	.900	Blue	.170	Brass	.018	.032	640905-1*	640905-2	640904-1	
			7.62	22.86	Blue	4.32	Brass	0.46	0.81	—	—	—	
	14-12 3,831-6,470 <sup>1</sup> [1.94-3.28]	B	.300	1.012	Green	.250	Brass	.018	.032	42844-1**	42844-3*	60544-3*	
			7.62	25.70	Green	6.35	Phos. Brz.	0.46	0.81	42844-2**	—	—	
		12-10 5,180-13,100 [2.62-6.64]	B	.300	1.012	Yellow	.250	Brass	.018	.032	640907-1*	640907-2	640906-1
				7.62	25.70	Yellow	6.35	Phos. Brz.	0.46	0.81	61198-2	61198-4	—
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	B	.300	.900	Red	.145	Brass	.016	.032	184262-1	184262-2	184261-1	
			7.62	22.86	Red	3.68	Brass	.406	.813	—	—	—	
.205	16-14 2,050-5,180 [1.04-2.62]	B	.250	.800	Red	.135	Brass	.016	.020	696018-1	696018-2	—	
			6.35	20.32	Red	3.43	Brass	0.41	0.51	—	—	—	
.205	22-18 509-1,900 [0.26-0.96]	B	.250	.800	Red	.140	Brass	.016	.020	640909-1*	640909-2	640908-1	
			6.35	20.32	Red	3.56	Brass	0.41	0.51	640917-1	—	—	
		16-14 2,050-5,180 [1.04-2.62]	B	.250	.800	Red/Black	.140	Brass	.016	.020	640911-1*	640911-2	640910-1
				6.35	20.32	Red/Black	3.56	Brass	0.41	0.51	—	—	—
.187	26-24 238-475 [0.12-0.24]	B	.230	.700	Yellow	.082	Brass	.016	.020	641321-1**	641321-2*	641320-1*	
			5.84	17.78	Yellow	2.08	Brass	0.41	0.51	—	—	—	
	22-18 509-1,900 [0.26-0.96]	B	.230	.800	Red	.140	Brass	.016	.020	640917-1*	640917-2	640916-1	
			5.84	20.32	Red	3.56	Brass	0.41	0.51	—	—	—	
.187	22-18 509-1,900 [0.26-0.96]	B	.230	.800	Red	.140	Brass	.016	.040	—	640578-2*	—	
			5.84	20.32	Red	3.56	Brass	0.41	1.02	—	—	—	

<sup>1</sup>Not UL or CSA approved or listed.

\*Available in small packaging quantities.

<sup>1</sup>Wire range is limited as noted.

<sup>2</sup>Unplated receptacle body.

## PIDG FASTON Terminals and Splices (Continued)

### Receptacles

(Continued)

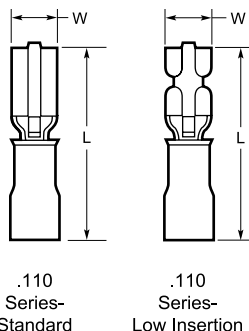
Series	Wire Size Circular Mils [mm <sup>2</sup> ]	Style	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.187	16-14 2,050-5,180 [1.04-2.62]	B	.230 5.84	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640919-1*	640919-2	640918-1
			.230 5.84	.900 22.86	Blue	.250 6.35	Brass	.016 0.41	.020 0.51	696108-1	696108-2	—
.187 Low Insertion	22-18 509-1,900 [0.26-0.96] 16-14 2,050-5,180 [1.04-2.62]		.230 5.84	.800 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184268-1	184268-2	184267-1
			.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184235-1	184235-2	184234-1
.110 Standard	22-18 509-1,900 [0.26-0.96]	B	.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.016 0.41	61048-1**	61048-2 <sup>†</sup>	—
			.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.020 0.51	61060-1**	61060-2 <sup>†</sup>	61059-2 <sup>†</sup>
			.148 3.76	.734 18.64	Natural	.110 2.79	Brass	.012 0.30	.032 0.81	60894-1**	60894-2 <sup>†</sup>	60893-2 <sup>†</sup>
			.148 3.76	.734 18.64	Black	.110 2.79	Brass	.012 0.30	.032 0.81	—	61678-2 <sup>†</sup>	—
.110 Low Insertion	26-24 238-475 [0.12-0.24]	A	.160 4.06	.700 17.78	Yellow	.082 2.08	Brass	.016 0.41	.020 0.51	641324-1 <sup>†</sup>	641324-2 <sup>†</sup>	—
			.160 4.06	.796 20.22	Red	.140 3.56	Brass	.016 0.41	.012 0.30	—	—	350871-1 <sup>†</sup>
	22-18 509-1,900 [0.26-0.96]	A	.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.016 0.41	640921-1	640921-2	—
			.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.020 0.51	640923-1*	640923-2	640922-1
			.160 4.06	.800 20.32	Red	.140 3.56	Brass	.016 0.41	.032 0.81	640925-1*	640925-2	640924-1
	16-14 2,050-5,180 [1.04-2.62]	A	.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.020 0.51	640929-1*	640929-2	—
			.160 4.06	.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	640931-1*	640931-2	—
.160 4.06			.800 20.32	Blue	.170 4.32	Brass	.016 0.41	.016 0.41	640927-1	640927-2	—	
		C	.160 4.06	.796 20.19	Blue	.170 4.32	Brass	.016 0.41	.032 0.81	641317-1	—	—

\*Not UL or CSA approved or listed.

\*\*Available in small packaging quantities.

### Receptacles

(Insulation Restricting)



#### Material

**Insulation** -Nylon, UL 94V-2

**Receptacle Body** -Brass per ASTM B-36

**Receptacle Style B**-Dimple with wire stop

**Plating** -Tin per ASTM B-545

**Metallic Sleeve** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545 or Nickel per QQ-N-290

#### Related Product Data

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

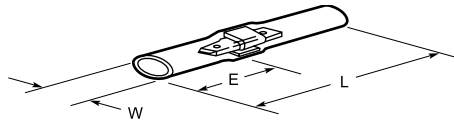
**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 67

Series	Wire Size Circular Mils [mm <sup>2</sup> ]	Style	Dimensions		Terminal Insulation Color Solid / Stripe	Wire Insulation Diameter Range	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
			W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.110 Standard	22 754 [0.38]	B	.148 3.76	.780 19.81	Red/ Green	.040-.080 1.02-2.03	Brass	.012 0.30	.016 0.41	55319-1	55319-3	—

**PIDG FASTON Terminals and Splices** (Continued)

**Line Splice Connector for "250" Series Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Color** -Natural  
**Splice Body** -Brass per ASTM B-36  
**Plating** -Tin per ASTM B-545 except where noted.

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5

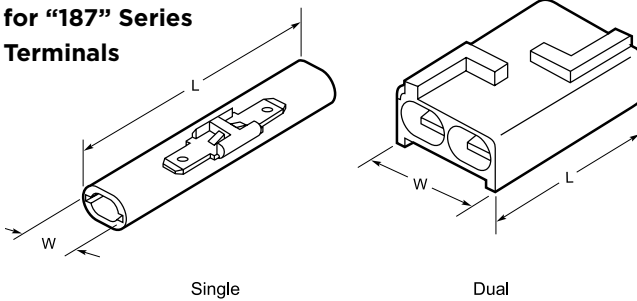
Wire Size	Plating	Dimensions			Part Numbers Loose Piece
		W	L Max.	E Min.	
22-10	Unplated	.391 9.93	2.093 53.16	.860 21.84	321235*
	Tin	.391 9.93	2.093 53.16	.860 21.84	321688
	Unplated	.409 10.39	2.625 66.68	1.151 29.24	1-321235-0
	Tin	.409 10.39	2.625 66.68	1.151 29.24	1-321235-1
	Unplated	.409 10.39	2.451 62.26	.970 <sup>2</sup> 24.64	1-321235-3 <sup>1</sup>

\*Available in small packaging quantities.

<sup>1</sup>Oval expansion at end opposite "w". (.380 x .320 inside diameter.)

<sup>2</sup>E min. on expansion end only.

**Line Splice Connector for "187" Series Terminals**



**Material**  
**Housing** -Nylon, UL 94V-2  
**Splice Body** -Brass per ASTM B-36

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5

Type	Housing Color	Dimensions		Temperature Rating	Part Numbers Loose Piece
		W	L		
Single	Natural	.345 8.76	1.750 44.45	—	360035-1 <sup>1</sup>
Dual	Natural	.650 16.51	1.750 44.45	105°C	360025-1 <sup>1</sup>
Dual	Black	.650 16.51	1.750 44.45	150°C	360025-2 <sup>1</sup>

<sup>1</sup>UL File E66717  
600 V Max

**Receptacle (Low Insertion Force)**

Series	Wire Size Circular Mils [mm <sup>2</sup> ]	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Recept. Matl.	Stock Thk.	Fits Tab Thk.	Part Numbers		
		W Nom.	L Max.						Loose Piece	Tape Mounted	Strip Form
.250 Low Insertion	22-18 509-1,900 [0.26-0.96]	.300 7.62	.900 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184262-1	184262-2	184261-1
.250 Low Insertion	16-14 2,050-5,180 [1.04-2.62]	.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184265-1	184265-2	184264-1
.187 Low Insertion	22-18 509-1,900 [0.26-0.96]	.230 5.84	.800 22.86	Red	.145 3.68	Brass	.016 .406	.032 .813	184268-1	184268-2	184267-1
.187 Low Insertion	16-14 2,050-5,180 [1.04-2.62]	.300 7.62	.900 22.86	Blue	.173 4.39	Brass	.016 .406	.032 .813	184235-1	184235-2	184234-1

**PLASTI-GRIP Terminals and Splices**

**Product Facts**

- Pre-insulated PLASTI-GRIP solderless terminals and splices
- Designed specifically to answer the need for inexpensive, insulated electrical terminations
- Can be used in almost every type of commercial application
- Accommodate wire sizes from 22 AWG through 2/0 AWG

**The Crimp**

- Carefully engineered application tooling has been developed to ensure uniformly high quality terminations
- Tool and terminal have been designed as a team to promote ease and speed of application and at the same time to provide precise crimping pressure for every wire size
- The wire and the terminal barrel form a homogeneous mass of metal, providing a connection of maximum conductivity, tensile strength, and high resistance to corrosion
- The quality performance, the facility of installation and the inherent simplicity make them well-suited for many industrial applications

**Basic Terminal Material.** The basic terminal is constructed of fine grade high conductivity copper per ASTM B-152 and tin-plated per ASTM B-545. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per ASTM B-545. Tyco Electronics' special plating process creates durable corrosion resistance to salt spray and most chemical fumes.

**Color Coding.** Terminal insulation is color-coded by wire size range to eliminate errors during installation.

**Funnel Entry.** Assures rapid wire insertion during high speed production. (Except 8 to 2/0 range.)

**Serrations.** Serrations inside barrel provide maximum contact and tensile strength after crimping. Dimples on 8 to 2/0 range.

**Insulation.** Vinyl insulation sleeve provides good dielectric strength and supports the wire insulation so that no bare wire is exposed.

**Temperature Rating: 90°C Max.**

**AMP PLASTI-GRIP Terminals and Splices (Use PLASTI-GRIP or PIDG Tooling)**

AMP Wire Range	UL Listed	SP® LR 7189 Certified	UL 8 thru 4/0 600V
Except as noted with individual part number listing.			
22-16	Terminals, Butt & Parallel Splices 22-16 Solid or Stranded <sup>1</sup>	600 V Max. (1000 V Fixture or Sign) 90°C Max.	Recognized under the component program of Underwriters Laboratories Incorporated File No. E13288
16-14	Terminals, Butt & Parallel Splices 16-14 Solid or Stranded <sup>1</sup>		
12-10	Terminals, Butt & Parallel Splices 12-10 Solid or Stranded <sup>1</sup>		

**Note: 22-16 terminals and splices are stamped 22-18 in accordance with MIL-T-7928.**

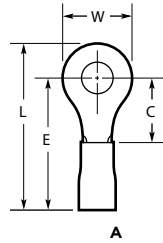
<sup>1</sup>Stranded wire only using TETRA-CRIMP tooling.

PLASTIC-GRIP Terminals and Splices



**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	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	2 M2	A	.218 5.54	.156 3.96	.572 14.53	.684 17.37	Red	.140 3.56	34140*	2-34140-1
				.218 5.54	.156 3.96	.572 14.53	.684 17.37	Red	.125 3.18	32944*	2-32944-1
		4	A	.218 5.54	.156 3.96	.572 14.53	.684 17.37	Red	.140 3.56	34141*	2-34141-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.140 3.56	34143	2-34143-1
				.218 5.54	.156 3.96	.572 14.53	.684 17.37	Red	.125 3.18	32945*	2-32945-1
				.218 5.54	.156 3.96	.572 14.53	.684 17.37	Red	.140 3.56	34142*	1-34142-1
		6 M3.5	A	.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.125 3.18	32947*	2-32947-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.140 3.56	34144*	2-34144-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Black	.140 3.56	326819	2-326819-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.170 4.32	—	2-35449-1
				.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.125 3.18	32950	2-32950-1
				.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.140 3.56	34147*	2-34147-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.125 3.18	32948*	2-32948-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.140 3.56	34145*	2-34145-1
		8 M4	A	.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.125 3.18	32951*	2-32951-1
				.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.140 3.56	34148*	2-34148-1
				.312 7.92	.281 7.14	.746 18.95	.905 22.99	Red	.200 5.08	—	2-34148-4
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.125 3.18	32949*	2-32949-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.140 3.56	34146*	2-34146-1
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Black	.140 3.56	2-34146-4	2-34146-5
				.281 7.14	.250 6.35	.666 16.92	.809 20.55	Red	.170 4.32	35451	2-35451-1
				.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.125 3.18	32952*	2-32952-1
		10	A	.312 7.92	.281 7.14	.697 17.70	.856 21.74	Red	.140 3.56	34149*	2-34149-1
				.312 7.92	.281 7.14	.746 18.95	.905 22.99	Red	.200 5.08	—	2-34149-3
.469 11.91	.437 11.10			.853 21.67	1.090 27.69	Red	.125 3.18	32953*	2-32953-1		
.469 11.91	.437 11.10			.853 21.67	1.090 27.69	Red	.140 3.56	34150*	2-34150-1		
.469 11.91	.437 11.10			.853 21.67	1.090 27.69	Black	.140 3.56	—	2-34150-3		
1/4 M6	A			.469 11.91	.437 11.10	.853 21.67	1.090 27.69	Red	.125 3.18	32953*	2-32953-1
				.469 11.91	.437 11.10	.853 21.67	1.090 27.69	Red	.140 3.56	34150*	2-34150-1
				.469 11.91	.437 11.10	.853 21.67	1.090 27.69	Black	.140 3.56	—	2-34150-3
		.469 11.91	.437 11.10	.853 21.67	1.090 27.69	Black	.140 3.56	—	2-34150-3		

\*Available in small packaging quantities.

**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	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	5/16 M8	A	.469	.437	.853	1.090	Red	.140	34151*	2-34151-1
				11.91	11.10	21.67	27.69	Black	3.56	—	2-34151-3
		3/8	A	.531	.546	.962	1.230	Red	.140	34152*	2-34152-2
				13.49	13.87	24.43	31.24	Black	3.56	—	2-34152-4
		4	A	.250	.171	.587	.715	Blue	.170	34157*	2-34157-1
				6.35	4.34	14.91	18.16	Blue	4.32	32957*	2-32957-1
		6 M3.5	A	.250	.171	.587	.715	Blue	.145	34158*	2-34158-1
				6.35	4.34	14.91	18.16	Blue	3.68	34158*	2-34158-1
				.343	.281	.697	.871	Blue	.145	32958*	2-32958-1
				8.71	7.14	17.70	22.12	Blue	3.68	34159*	2-34159-1
		8 M4	A	.343	.281	.697	.871	Blue	.170	34159*	2-34159-1
				8.71	7.14	17.70	22.12	Blue	4.32	328527*	2-328527-1
.312	.250			.666	.825	Blue	.170	328527*	2-328527-1		
7.92	6.35			16.92	20.96	Blue	4.32	32959*	2-32959-1		
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	8 M4	A	.343	.281	.697	.871	Blue	.145	32959*	2-32959-1
				8.71	7.14	17.70	22.12	Blue	3.68	34160*	2-34160-1
				.343	.281	.697	.871	Blue	.170	34160*	2-34160-1
				8.71	7.14	17.70	22.12	Blue	4.32	2-34160-2	2-34160-3
		10	A	.343	.281	.697	.871	Blue	.145	32960*	2-32960-1
				8.71	7.14	17.70	22.12	Blue	3.68	34161*	2-34161-1
				.343	.281	.746	.920	Blue	.250	2-34161-2	2-34161-3
				8.71	7.14	18.95	23.37	Blue	6.35	—	2-34161-3
16-14HD <sup>†</sup> 2,050-5,180 [1.04-2.62]	.050 1.27	5/16 M8	A	.343	.281	.746	.920	Blue	.250	2-34161-2	2-34161-3
				8.71	7.14	18.95	23.37	Black	.250	—	2-34959-1
				.468	.312	.728	.965	Blue	.170	—	2-34954-1
				11.89	7.92	18.49	24.51	Blue	4.32	—	2-34954-1
		1/4 M6	A	.469	.437	.853	1.090	Blue	.145	32961*	2-32961-1
				11.91	11.10	21.67	27.69	Blue	3.68	32961*	2-32961-1
				.469	.437	.853	1.090	Blue	.170	34162*	2-34162-1
				11.91	11.10	21.67	27.69	Blue	4.32	34162*	2-34162-1
5/16 M8	A	.469	.437	.853	1.090	Blue	.170	34162*	2-34162-1		
		11.91	11.10	21.67	27.69	Blue	4.32	2-34162-2	2-34162-3		
		.469	.437	.853	1.090	Black	.170	2-34162-2	2-34162-3		
		11.91	11.10	21.67	27.69	Black	4.32	2-34162-2	2-34162-3		
3/8	A	.469	.437	.853	1.090	Blue	.170	34163*	2-34163-1		
		11.91	11.10	21.67	27.69	Blue	4.32	34163*	2-34163-1		
3/8	A	.531	.546	.962	1.248	Blue	.170	34164*	2-34164-2		
		13.49	13.87	24.43	31.70	Black	.170	—	2-34164-4		
6 M3.5	A	.281	.219	.810	.953	Yellow/Blk.	.200	34821	2-34821-1		
		7.14	5.56	20.57	24.21	Yellow/Blk.	5.08	34821	2-34821-1		
8 M4	A	.343	.281	.872	1.046	Yellow/Blk.	.200	34822 <sup>†</sup>	—		
		8.71	7.14	22.15	26.57	Yellow/Blk.	5.08	34822 <sup>†</sup>	—		
10	A	.343	.281	.872	1.046	Yellow/Blk.	.200	34823* <sup>†</sup>	2-34823-1 <sup>†</sup>		
		8.71	7.14	22.15	26.57	Yellow/Blk.	5.08	34823* <sup>†</sup>	2-34823-1 <sup>†</sup>		
10	A	.343	.281	.872	1.046	Yellow/Blk.	.250	321518	2-321518-1		
		8.71	7.14	22.15	26.57	Yellow/Blk.	6.35	321518	2-321518-1		

<sup>†</sup> Not UL or CSA Approved or Listed.

\*Available in small packaging quantities.

<sup>†</sup>Heavy Duty for extra mechanical strength.

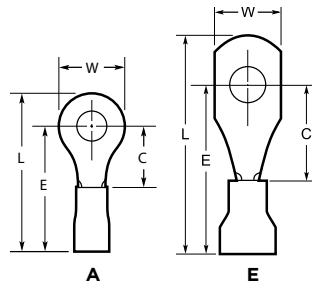
**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole. (Styles A & E).

PLASTIC-GRIP Terminals and Splices

**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)



**Material**

**Insulation** -Vinyl, UL 94V-0

**Terminal Body** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pgs. 66 & 67

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
				W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted		
16-14HD <sup>1</sup> 2,050-5,180 [1.04-2.62]	.050 1.27	1/4 M6	A	.500	.344	.935	1.188	Yellow/Blk.	.230	35349	2-35349-1		
				12.70	8.74	23.75	30.18	Yellow/Blk.	5.84	—	—		
		5/16 M8	A	.531	.437	1.028	1.296	Yellow/Blk.	.200	34824	2-34824-3		
				13.49	11.10	26.11	32.92	Yellow/Blk.	5.08	—	—		
		3/8	A	.750	.625	1.216	1.594	Yellow/Blk.	.200	34826	—		
				19.05	15.88	30.89	40.49	Yellow/Blk.	5.08	—	—		
		1/2 M12	A	.750	.625	1.216	1.594	Yellow/Blk.	.200	34827	—		
				19.05	15.88	30.89	40.49	Yellow/Blk.	5.08	—	—		
		12-10 5,180-13,100 [2.62-6.64]	.042 1.07	0	A	.281	.219	.810	.953	Yellow	.250	2-34835-4	—
						7.14	5.56	20.57	24.21	Yellow	6.35	—	—
4	A			.281	.219	.810	.953	Yellow	.250	34835	2-34835-1		
				7.14	5.56	20.57	24.21	Yellow	6.35	—	—		
6 M3.5	A			.281	.219	.810	.953	Yellow	.250	34852*	2-34852-1		
				7.14	5.56	20.57	24.21	Yellow	6.35	—	—		
				.375	.302	.893	1.098	Yellow	.230	34168*	2-34168-1		
				9.53	7.67	22.68	27.89	Yellow	5.84	—	—		
8 M4	A			.312	.302	.893	1.062	Yellow	.250	—	696047-1		
				7.92	7.67	22.68	26.97	Yellow	6.35	—	696048-1		
		.375	.302	.893	1.098	Yellow	.230	34169*	2-34169-1				
		9.53	7.67	22.68	27.89	Yellow	5.84	—	—				
10	A	.375	.302	.893	1.098	Yellow	.250	34853*	2-34853-1				
		9.53	7.67	22.68	27.89	Yellow	6.35	—	—				
		.312	.302	.893	1.052	Yellow	.230	330518	—				
		7.92	7.67	22.68	26.72	Yellow	5.84	—	—				
1/4 M6	A	E	.312	.302	.893	1.111	Yellow	.300	—	1-330518-2			
			7.92	7.67	22.68	28.22	Yellow	7.62 <sup>2-10</sup>	—	—			
		A	.375	.302	.893	1.083	Black	.250	—	2-328261-1			
			9.53	7.67	22.68	27.51	Black	6.35	—	—			
		A	.375	.302	.893	1.098	Yellow	.230	34170*	2-34170-1			
			9.53	7.67	22.68	27.89	Yellow	5.84	—	—			
		A	.375	.302	.893	1.098	Yellow	.250	34854*	2-34854-1			
			9.53	7.67	22.68	27.89	Yellow	6.35	—	—			
		5/16 M8	A	.400	.468	1.118	1.373	Yellow	.300	55678-1	55678-2		
				10.16	11.89	28.40	34.87	Yellow	7.62	—	—		
1/4 M6	A	.500	.344	.994	1.247	Black	.300	35492	—				
		12.70	8.74	25.25	31.67	Black	7.62	—	—				
		.531	.468	1.059	1.327	Yellow	.230	34171*	2-34171-1				
		13.49	11.89	26.90	33.71	Yellow	5.84	—	—				
5/16 M8	A	.531	.468	1.059	1.327	Yellow	.250	34855*	2-34855-1				
		13.49	11.89	26.90	33.71	Yellow	6.35	—	—				
3/8	A	.531	.468	1.059	1.327	Yellow	.230	34172*	2-34172-1				
		13.49	11.89	26.90	33.71	Yellow	5.84	—	—				
5/16 M8	A	.531	.468	1.059	1.327	Black	.230	—	2-34172-3				
		13.49	11.89	26.90	33.71	Black	5.84	—	—				
3/8	A	.593	.531	1.122	1.421	Yellow	.230	34856*	2-34856-1				
		15.06	13.49	28.50	36.09	Yellow	5.84	—	—				
1/2 M12	A	.750	.625	1.216	1.594	Yellow	.250	34173*	2-34173-1				
		19.05	15.88	30.89	40.49	Yellow	6.35	—	—				

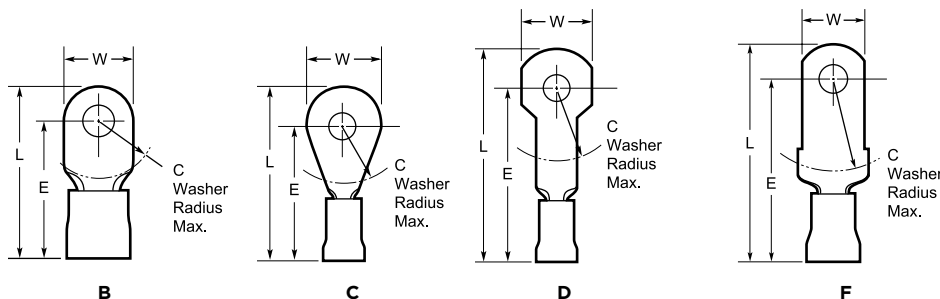
\*Available in small packaging quantities.

<sup>1</sup>Heavy Duty for extra mechanical strength.

**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole. (Styles A & E).

**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Continued)



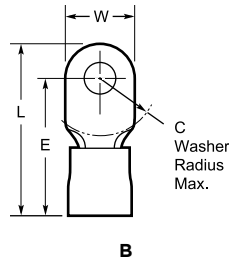
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C	E Max.	L Max.			Loose Piece	Tape Mounted
8 13,100-20,800 [6.64-10.5]	<b>.043</b> 1.09	8 M4	C	<b>.478</b> 12.14	<b>.437</b> 11.10	<b>1.344</b> 34.14	<b>1.586</b> 40.28	Red	<b>.360</b> 9.14	52041	52041-6
			D	<b>.430</b> 10.92	<b>.437</b> 11.10	<b>1.363</b> 34.62	<b>1.605</b> 40.77	Red	<b>.360</b> 9.14	—	54351-2
		10	B	<b>.431</b> 10.95	<b>.437</b> 11.10	<b>1.338</b> 33.99	<b>1.556</b> 39.52	Red	<b>.360</b> 9.14	52263	52263-2
			C	<b>.431</b> 10.95	<b>.437</b> 11.10	<b>1.338</b> 33.99	<b>1.556</b> 39.52	Red	<b>.390</b> 9.91	52263-5	52263-4
		1/4 M6	C	<b>.431</b> 10.95	<b>.437</b> 11.10	<b>1.358</b> 34.49	<b>1.576</b> 40.03	Red	<b>.330</b> 8.38	52263-1	52263-3
			C	<b>.478</b> 12.14	<b>.437</b> 11.10	<b>1.303</b> 33.10	<b>1.561</b> 39.65	Red	<b>.360</b> 9.14	55621-1	55621-2
		5/16 M8	C	<b>.478</b> 12.14	<b>.437</b> 11.10	<b>1.344</b> 34.14	<b>1.586</b> 40.28	Red	<b>.360</b> 9.14	52041-1	52041-7
			C	<b>.478</b> 12.14	<b>.437</b> 11.10	<b>1.358</b> 34.49	<b>1.600</b> 40.64	Red	<b>.330</b> 8.38	52041-3*	52041-9
		3/8	C	<b>.587</b> 14.91	<b>.500</b> 12.70	<b>1.400</b> 35.56	<b>1.696</b> 43.08	Red	<b>.360</b> 9.14	52291*	52291-4
			C	<b>.587</b> 14.91	<b>.500</b> 12.70	<b>1.400</b> 35.56	<b>1.696</b> 43.08	Red	<b>.360</b> 9.14	52291-1*	52291-5
		1/2 M12	A	<b>.875</b> 22.23	<b>.625</b> 15.88	<b>1.420</b> 36.07	<b>1.860</b> 47.24	Red	<b>.330</b> 8.38	52262-1	—
			C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.844</b> 46.84	Blue	<b>.436</b> 11.07	52042	—
6 20,800-33,100 [10.5-16.8]	<b>.048</b> 1.22	8 M4	C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.869</b> 47.47	Blue	<b>.360</b> 9.14	52042-2	—
			C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.869</b> 47.47	Blue	<b>.360</b> 9.14	52042-5*	—
		10	B	<b>.468</b> 11.89	<b>.421</b> 10.69	<b>1.482</b> 37.64	<b>1.719</b> 43.66	Blue	<b>.360</b> 9.14	—	52265-4
			C	<b>.468</b> 11.89	<b>.421</b> 10.69	<b>1.482</b> 37.64	<b>1.719</b> 43.66	Blue	<b>.436</b> 11.07	52265*	52265-3
		1/4 M6	C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.844</b> 46.84	Blue	<b>.436</b> 11.07	52042-4	—
			F	<b>.398</b> 10.11	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.846</b> 46.89	Blue	<b>.450</b> 11.43	55679-1	55679-2
		5/16 M8	C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.844</b> 46.84	Blue	<b>.436</b> 11.07	52042-1	52042-7
			C	<b>.500</b> 12.70	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.869</b> 47.47	Blue	<b>.360</b> 9.14	52042-3*	52042-9
		3/8	B	<b>.625</b> 15.88	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.906</b> 48.41	Blue	<b>.450</b> 11.43	52264*	52264-4
			B	<b>.625</b> 15.88	<b>.515</b> 13.08	<b>1.591</b> 40.41	<b>1.906</b> 48.41	Blue	<b>.450</b> 11.43	52264-1*	52264-5
		1/2 M12	C	<b>.815</b> 20.70	<b>.515</b> 13.08	<b>1.441</b> 36.60	<b>1.851</b> 47.02	Blue	<b>.436</b> 11.07	52350*	—

\*Available in small packaging quantities.

**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole. (Styles A & E).

**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue Terminals**  
(Continued)



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 67

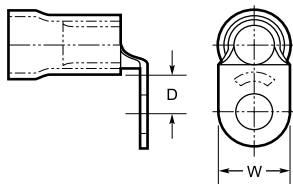
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers		
				W	C	E Max.	L Max.			Loose Piece	Tape Mounted	
4 33,100-52,600 [16.8-26.7]	.051 1.30	10	B	.546	.531	1.672	1.948	Yellow	.450	52043-2	—	
				13.87	13.49	42.47	49.48	Yellow	.515	52043	52043-4	
			.391	.531	1.672	1.927	Yellow	.450	—	55680-2		
			9.93	13.49	42.47	48.95	Yellow	11.43	—	—		
		1/4 M6	B	.546	.531	1.672	1.948	Yellow	.450	52043-3*	52043-7	
				13.87	13.49	42.47	49.48	Yellow	11.43	52043-1	52043-5	
			.679	.531	1.672	2.014	Yellow	.450	52266-3	52266-9		
			17.25	13.49	42.47	51.16	Yellow	11.43	52266	—		
		3/8	B	.679	.531	1.672	2.014	Yellow	.450	52266-4*	1-52266-0	
				17.25	13.49	42.47	51.16	Yellow	11.43	52266-1	—	
			.675	.578	1.731	2.071	Red	.560	52267-1	—		
			17.15	14.68	43.97	52.60	Red	14.22	—	—		
2 52,600-83,700 [26.7-42.4]	.060 1.52	1/4 M6	B	.675	.578	1.731	2.071	Red	.560	52267-1	—	
				17.15	14.68	43.97	52.60	Red	16.05	52267	—	
		5/16 M8	B	.711	.578	1.731	2.089	Red	.560	52044-4	—	
				18.06	14.68	43.97	53.06	Red	14.22	52044-1	—	
		3/8	B	.711	.578	1.731	2.089	Red	.560	52044-5	—	
				18.06	14.68	43.97	53.06	Red	14.22	52044-2	—	
			5/16 M8	B	.807	.625	2.041	2.447	Blue	.684	52045-1	—
					20.50	15.88	51.84	62.15	Blue	17.37	52045-5	—
3/8	B	.807	.625	2.041	2.447	Blue	.684	52045-2	—			
		20.50	15.88	51.84	62.15	Blue	17.37	—	—			
1/2 M12	B	.875	.625	2.041	2.478	Blue	.684	52289	—			
		22.23	15.88	51.84	62.94	Blue	17.37	—	—			
2/0 119,500-150,500 [60.6-76.3]	.083 2.11	5/16 M8	B	.926	.625	2.082	2.477	Yellow	.775	52046-1	—	
				23.52	15.88	52.88	62.92	Yellow	19.69	—	—	

\*Available in small packaging quantities.

PLASTI-GRIP Terminals and Splices

**PLASTI-GRIP Terminals and Splices** (Continued)

**Ring Tongue  
90° Bend Terminals**

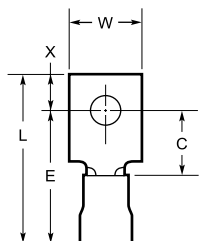


**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 67

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	D Min.			Loose Piece	
8 13,100-20,800 [6.64-10.5]	.043 1.09	10	.431 10.95	.311 7.90	Red	.360 9.14	55654-1	
		1/4 M6	.478 12.14	.435 11.05	Red		54725-1	
6 20,800-33,100 [10.5-16.8]	.048 1.22	10	.500 12.70	.310 7.87	Blue	.436 11.07	54753-1	
		1/4 M6	.500 12.70	.379 9.63	Blue		54754-1	

**Rectangular  
Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

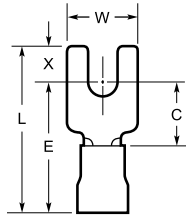
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.249 6.32	.312 7.92	.728 18.49	.868 22.05	.125 3.18	Blue	.145 3.68	34898	—

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

**PLASTI-GRIP Terminals and Splices** (Continued)

**Spade Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
22-16 509-3,260 [0.26-1.65]	<b>.033</b> 0.84	6 M3.5	<b>.250</b> 6.35	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.858</b> 21.79	<b>.125</b> 3.18	Red	<b>.140</b> 3.56	327043*	2-327043-1
			<b>.297</b> 7.54	<b>.203</b> 5.16	<b>.619</b> 15.72	<b>.765</b> 19.43	<b>.141</b> 3.58	Red	<b>.125</b> 3.18	327735*	2-327735-1
			<b>.297</b> 7.54	<b>.203</b> 5.16	<b>.619</b> 15.72	<b>.765</b> 19.43	<b>.141</b> 3.58	Red	<b>.140</b> 3.56	320665*	2-320665-1
			<b>.307</b> 7.80	<b>.245</b> 6.22	<b>.661</b> 16.79	<b>.836</b> 21.23	<b>.175</b> 4.45	Red	<b>.140</b> 3.56	696003-1	696003-2
			<b>.375</b> 9.53	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Red	<b>.120</b> 3.18		2-32981-1
			<b>.375</b> 9.53	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Red	<b>.140</b> 3.56	34155*	2-34155-1
		8 M4	<b>.375</b> 9.53	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Red	<b>.140</b> 3.56	34156*	2-34156-1
			<b>.237</b> 6.02	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.865</b> 21.97	<b>.125</b> 3.18	Blue	<b>.145</b> 3.68	696006-1 <sup>†</sup>	—
			<b>.297</b> 7.54	<b>.203</b> 5.16	<b>.619</b> 15.72	<b>.765</b> 19.43	<b>.141</b> 3.58	Blue	<b>.145</b> 3.68	322994*	2-322994-1
			<b>.297</b> 7.54	<b>.203</b> 5.16	<b>.619</b> 15.72	<b>.765</b> 19.43	<b>.141</b> 3.58	Blue	<b>.170</b> 4.32	54367-1	54367-2
			<b>.385</b> 9.78	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Blue	<b>.170</b> 4.32	34165*	—
			<b>.297</b> 7.54	<b>.203</b> 5.16	<b>.619</b> 15.72	<b>.765</b> 19.43	<b>.141</b> 3.58	Blue	<b>.170</b> 4.32	326741	2-326741-1
16-14 2,050-5,180 [1.04-2.62]	<b>.033</b> 0.84	8 M4	<b>.307</b> 7.80	<b>.245</b> 6.22	<b>.661</b> 16.79	<b>.836</b> 21.23	<b>.175</b> 4.45	Blue	<b>.170</b> 4.32	696024-1	696024-2
			<b>.385</b> 9.78	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Blue	<b>.170</b> 4.32	34166*	2-34166-1
		10	<b>.385</b> 9.78	<b>.312</b> 7.92	<b>.728</b> 18.49	<b>.920</b> 23.37	<b>.187</b> 4.75	Blue	<b>.170</b> 4.32	34167*	2-34167-1
			<b>.237</b> 6.02	<b>.296</b> 7.52	<b>.887</b> 22.53	<b>1.095</b> 27.81	<b>.203</b> 5.16	Yellow	<b>.230</b> 5.84	696007-1 <sup>†</sup>	—
12-10 5,180-13,100 [2.62-6.64]	<b>.042</b> 1.07	10	<b>.406</b> 10.31	<b>.296</b> 7.52	<b>.887</b> 22.53	<b>1.095</b> 27.81	<b>.203</b> 5.16	Yellow	<b>.230</b> 5.84	34176*	2-34176-1

\*Available in small packaging quantities.

<sup>†</sup> Gold

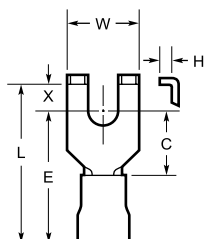
**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole.

PLASTI-GRIP Terminals and Splices



**PLASTI-GRIP Terminals and Splices** (Continued)

**Flanged Spade Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

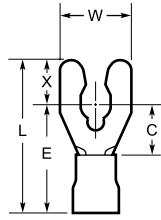
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions						Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers		
			W	C Min.	E Max.	L Max.	X	H Min.			Loose Piece	Tape Mounted	
22-16 509-3,260 [0.26-1.65]	.033 0.84	6 M3.5	.296	.203	.619	.749	.125	.045	Red	.140 3.56	322249*	1-322249-1	
			7.52	5.16	15.72	19.02	3.18	1.14					
		8 M4	.328	.203	.619	.749	.125	.045	Red	.140 3.56	324560	2-324560-1	
			8.33	5.16	15.72	19.02	3.18	1.14					
			10	.296	.203	.619	.749	.125	.045	Red	.140 3.56	1-322249-0	1-322249-9
				7.52	5.16	15.72	19.02	3.18	1.14				
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.294	.203	.619	.749	.125	.047	Blue	.170 4.32	324165*	2-324165-1	
			7.47	5.16	15.72	19.02	3.18	1.19					
		8 M4	.294	.203	.668	.798	.125	.047	Blue	.250 6.35	—	2-324165-4	
			7.47	5.16	16.92	20.27	3.18	1.19					
			10	.416	.250	.666	.842	.171	.062	Blue	.170 4.32	53874-1	53874-2
				10.57	6.35	16.92	21.39	4.34	1.57				
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6 M3.5	.296	.250	.841	1.017	.171	.052	Yellow	.230 5.84	324581*	1-324581-1	
		7.52	6.35	21.36	25.83	4.34	1.32						
		8 M4	.416	.250	.841	1.017	.171	.052	Yellow	.230 5.84	324172*	1-324172-0	
		10.57	6.35	21.36	25.83	4.34	1.32						
10	.416	.250	.841	1.017	.171	.052	Yellow	.250 6.35	52856	52856-1			

\*Available in small packaging quantities.

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

**PLASTI-GRIP Terminals and Splices** (Continued)

**Short Spring Spade  
Tongue Terminals**



**Material**

**Insulation** -Vinyl, UL 94V-0

**Terminal Body** -Phosphor Bronze per ASTM B-139 for wire sizes 24 to 14  
Brass per ASTM B-36 for wire sizes 12 to 10

**Plating** -Tin per ASTM B-545 except where noted

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
24-20 320-1,290 [0.16-0.65]	.025 0.64	4	.203 5.16	.219 5.56	.624 15.85	.744 18.90	.115 2.92	White	.125 3.18	—	53829-2
			.203 5.16	.250 6.35	.666 16.92	.811 20.60	.140 3.56	Red	.140 3.56	52947*	52947-1
		5 M3	.250 6.35	.250 6.35	.666 16.92	.811 20.60	.140 3.56	Red	.140 3.56	52948*	52948-1
			.234 5.94	.250 6.35	.666 16.92	.811 20.60	.140 3.56	Red	.140 3.56	53240-1*	53240-2
		6 M3.5	.250 6.35	.250 6.35	.666 16.92	.811 20.60	.140 3.56	Red	.140 3.56	52949*	52949-1
			.250 6.35	.250 6.35	.715 18.16	.860 21.84	.140 3.56	Red	.200 5.08	52949-2	52949-3
		8 M4	.244 6.20	.281 7.14	.697 17.70	.872 22.15	.170 4.32	Red	.140 3.56	53241-1	53241-2
			.375 9.53	.281 7.14	.697 17.70	.872 22.15	.170 4.32	Red	.140 3.56	52950*	52950-1
			.375 9.53	.281 7.14	.746 18.95	.921 23.39	.170 4.32	Red	.200 5.08	52950-2	52950-3
			.294 7.47	.281 7.14	.697 17.70	.920 23.37	.218 5.54	Red	.140 3.56	53242-1*	53242-2
		10	.294 7.47	.281 7.14	.746 18.95	.969 24.61	.218 5.54	Red	.200 5.08	53242-5	53242-6
			.406 10.31	.281 7.14	.697 17.70	.920 23.37	.218 5.54	Red	.140 3.56	52951*	52951-1
.406 10.31	.281 7.14		.746 18.95	.969 24.61	.218 5.54	Red	.200 5.08	—	52951-3		
.250 6.35	.250 6.35		.666 16.92	.811 20.60	.140 3.56	Blue	.170 4.32	52955*	52955-1		
6 M3.5	.250 6.35	.250 6.35	.715 18.16	.860 21.84	.140 3.56	Blue	.250 6.35	52955-2	52955-3		
	.250 6.35	.250 6.35	.715 18.16	.860 21.84	.140 3.56	Blue	.250 6.35	52955-4 <sup>1</sup>	—		
8 M4	.244 6.20	.281 7.14	.697 17.70	.872 22.15	.170 4.32	Blue	.170 4.32	53244-1*	53244-2		
	.244 6.20	.281 7.14	.746 18.95	.921 23.39	.170 4.32	Blue	.250 6.35	—	53244-4		
10	.375 9.53	.281 7.14	.697 17.70	.872 22.15	.170 4.32	Blue	.170 4.32	52956*	52956-1		
	.375 9.53	.281 7.14	.746 18.95	.921 23.39	.170 4.32	Blue	.250 6.35	52956-2*	52956-3		
	.294 7.47	.281 7.14	.697 17.70	.920 23.37	.218 5.54	Blue	.170 4.32	53245-1	53245-2		
	.294 7.47	.281 7.14	.746 18.95	.969 24.61	.218 5.54	Blue	.250 6.35	—	53245-6		
10	.406 10.31	.281 7.14	.697 17.70	.920 23.37	.218 5.54	Blue	.170 4.32	52957*	52957-1		
	.406 10.31	.281 7.14	.746 18.95	.969 24.61	.218 5.54	Blue	.250 6.35	52957-2	52957-3		

\*Available in small packaging quantities.

<sup>1</sup>Terminal body plating — Gold per MIL-G-45204 over Nickel per QQ-N-290.

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

**PLASTI-GRIP Terminals and Splices** (Continued)

**Short Spring Spade  
Tongue Terminals**  
(Continued)

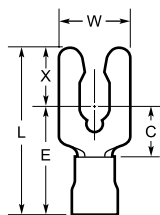
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted		
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	6 M3.5	.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	Yellow	.200 5.08	52961*	52961-1		
			.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	Yellow	.250 6.35	53246-1*	53246-2		
			.250 6.35	.174 4.42	.775 19.69	.959 24.36	.179 4.55	Yellow	.250 6.35	53246-3 <sup>1</sup>	—		
		8 M4	.312 7.92	.276 7.01	.877 22.28	1.052 26.72	.170 4.32	Yellow	.250 6.35	53247-1*	53247-2		
			.375 9.53	.276 7.01	.877 22.28	1.052 26.72	.170 4.32	Yellow	.200 5.08	52962*	52962-1		
			.375 9.53	.276 7.01	.936 23.77	1.111 28.22	.170 4.32	Yellow	.300 7.62	52962-2	52962-3		
		10	.312 7.92	.276 7.01	.877 22.28	1.100 27.94	.218 5.54	Yellow	.250 6.35	53248-1	53248-2		
			.406 10.31	.276 7.01	.877 22.28	1.100 27.94	.218 5.54	Yellow	.200 5.08	52963	52963-1		
			.406 10.31	.276 7.01	.877 22.28	1.100 27.94	.218 5.54	Yellow	.250 6.35	52963-2*	52963-3		
					.406 10.31	.276 7.01	.936 23.77	1.159 29.44	.218 5.54	Yellow	.300 7.62	52963-4	52963-5

\*Available in small packaging quantities.

<sup>1</sup>Terminal body plating — Gold per MIL-G-45204 over Nickel per QQ-N-290.

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

**Long Spring Spade  
Tongue Terminals**



**Material**

**Insulation** -Vinyl, UL 94V-0

**Terminal Body** -Phosphor Bronze per ASTM B-139 for wire sizes 22 to 14  
Brass per ASTM B-36 for wire sizes 12 to 10

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pg. 66

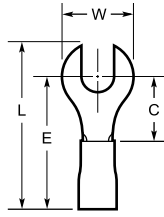
Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.	X			Loose Piece	Tape Mounted
22-16 509-3,260 [0.26-1.65]	.033 0.84	6 M3.5	.250 6.35	.238 6.05	.664 16.87	.945 24.00	.276 7.01	Red	.140 3.56	52453*	52453-1
			.281 7.14	.270 6.86	.696 17.68	.991 25.17	.290 7.37	Red	.140 3.56	52454*	52454-1
		10	.343 8.71	.283 7.19	.709 18.01	1.017 25.83	.303 7.70	Red	.140 3.56	52455*	52455-1
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6 M3.5	.250 6.35	.238 6.05	.664 16.87	.945 24.00	.276 7.01	Blue	.170 4.32	52463*	52463-1
			.281 7.14	.270 6.86	.696 17.68	.991 25.17	.290 7.37	Blue	.170 4.32	52464*	52464-1
		10	.343 8.71	.283 7.19	.709 18.01	1.017 25.83	.303 7.70	Blue	.170 4.32	52465*	52465-1
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	8 M4	.375 9.53	.273 6.93	.874 22.20	1.174 29.82	.295 7.49	Yellow	.200 5.08	52474	52474-1
			.375 9.53	.305 7.75	.906 23.01	1.219 30.96	.308 7.82	Yellow	.200 5.08	52475	52475-1
		10	.375 9.53	.305 7.75	.965 24.51	1.278 32.46	.308 7.82	Yellow	.300 7.62	—	52475-3

\*Available in small packaging quantities.

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

**PLASTI-GRIP Terminals and Splices** (Continued)

**Slotted Ring  
Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

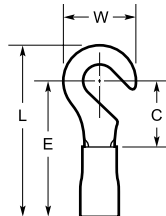
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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	6	.218	.156	.572	.658	Red	.125 3.18	34090	—
		M3.5	5.54	3.96	14.53	16.71				
		8	.281	.250	.666	.782	Red	.140 3.56	324184	2-324184-1
		M4	7.14	6.35	16.92	19.86				

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

PLASTI-GRIP Terminals and Splices

**Hook Tongue Terminals**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

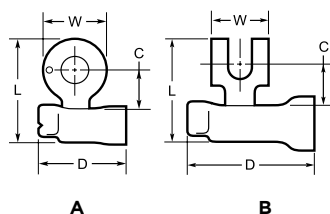
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** - pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C Min.	E Max.	L Max.			Loose Piece	Tape Mounted
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	8 M4	.343 8.71	.281 7.14	.697 17.70	.871 22.12	Blue	.170 4.32	320263	2-320263-1

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

## PLASTI-GRIP Terminals and Splices (Continued)

### Flag Tongue Terminals



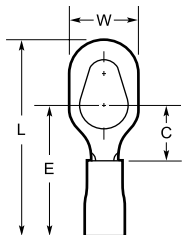
**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Color** -Natural  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Style	Stud Size	Dimensions				Terminal Insulation Stripe Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C Min.	L Max.	D Max.			Loose Piece	Tape Mounted
20-16HD <sup>1</sup> 810-3,260 [0.41-1.65]	.042 1.07	A	14	.500 12.70	.266 6.76	.749 19.02	.695 17.65	Green	.170 4.32		322307
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	B	10	.385 9.78	.272 6.91	.741 18.82	.695 17.65	Blue	.170 4.32		322834
		A	14	.500 12.70	.266 6.76	.749 19.02	.695 17.65	Blue	.170 4.32		322310
16-14HD <sup>1</sup> 2,050-5,180 [1.04-2.62]	.050 1.27	A	10	.500 12.70	.266 6.76	.810 20.57	.775 19.69	Black	.230 5.84		322312
			14	.500 12.70	.266 6.76	.810 20.57	.775 19.69	Black	.230 5.84		322313
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	A	10	.500 12.70	.266 6.76	.812 20.62	.775 19.69	Yellow	.230 5.84		322315
			14	.500 12.70	.266 6.76	.812 20.62	.775 19.69	Yellow	.230 5.84		322316
			14	.500 12.70	.266 6.76	.812 20.62	.775 19.69	Yellow	.280 7.11		322395

<sup>1</sup>Heavy Duty for extra mechanical strength.

### Multiple Stud Terminals



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

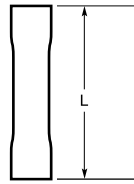
**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mills [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	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	6-8-10	.325 8.26	.271 6.88	.691 17.55	.969 24.61	Red	.125 3.18	54774-1	54774-2
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	6-8-10	.325 8.26	.271 6.88	.691 17.55	.969 24.61	Blue	.145 3.68	54775-1	54775-2

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

**PLASTI-GRIP Terminals and Splices** (Continued)

**Butt Splices**



**Material**

**Insulation** -Vinyl, UL 94V-0

**Splice Body** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -pg. 66

Wire Size Circular Mills <sup>1</sup> [mm <sup>2</sup> ]	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				Loose Piece	Tape Mounted
26-22 202-810 [0.10-0.41]	.620 15.75	Yellow	.080 2.03	321026* <sup>1</sup>	2-321026-1 <sup>1</sup>
22-18/16-14	1.065 27.05	Red/Blue Stripe	.170 / .115 6.86/ 2.92	696010-1	—
22-16 <sup>2</sup> 509-3,260 [0.26-1.65]	1.065 27.05	Red	.120 3.05	34067*	2-34067-1
	1.065 27.05	Red	.170 4.32	34243*	1-34243-1
	1.076 27.33	Natural w/ Red Letters	.120 3.05	324138*	—
	1.076 27.33	Red	.140 3.56	34070*	1-34070-1
	1.076 27.33	Natural w/ Red Stripes	.140 3.56	55792-1*	55792-2
	1.065 27.05	Red	.083 x .171 2.11 x 4.34	34203 <sup>3*</sup>	—
16-14 2,050-5,180 [1.04-2.62]	.600 15.24	Blue	—	55629-2	—
	1.065 27.05	Blue	.140 3.56	34068*	2-34068-1
	1.065 27.05	Natural w/ Blue Letters	.140 3.56	328427*	—
	1.065 27.05	Blue	.170 4.32	34071*	2-34071-1
	1.065 27.05	Natural w/ Blue Stripes	.170 4.32	55785-1*	55785-2
	1.065 27.05	Blue	.215 5.46	35244*	2-35244-1
	1.105 28.07	Blue	.170 4.32	2-34071-2 <sup>4</sup>	2-34071-3 <sup>4</sup>
	1.065 27.05	Blue	.135 x .245 3.43 x 6.22	34204 <sup>3*</sup>	1-34204-0
12-10 5,180-13,100 [2.62-6.64]	1.160 29.46	Yellow	.200 5.08	34069	—
	1.160 29.46	Yellow	.230 5.84	34072*	2-34072-2
	1.160 29.46	Natural w/ Yellow Stripes	.230 5.84	55793-1*	55793-2
	1.160 29.46	Yellow	.250 6.35	34945*	—
	1.160 29.46	Yellow	.300 7.62	326742	—
	1.200 30.48	Yellow	.250 6.35	2-34945-1 <sup>4</sup>	2-34945-2 <sup>4</sup>
	1.160 29.46	Yellow	.250 / .165 x .315 6.35 / 4.19 x 8.00	321286 <sup>5†</sup>	—
	1.160 29.46	Yellow	.138 x .281 3.51 x 7.14	34205 <sup>3*</sup>	—
8	1.340 34.04	Red	.250 6.35	696025-1	—
6	1.530 38.86	Blue	.330 8.38	696026-1	—

† Not UL or CSA Approved or Listed.

\*Available in small packaging quantities.

<sup>1</sup>When using two or more wires in either end of a butt splice, the combined cross sectional area must be within the (CMA) circular mil range listed. (Not UL or CSA approved with use of multiple wires.)

<sup>2</sup>22-16 splices are 22-18 range in accordance with MIL-T-7928.

<sup>3</sup>Oval expansion.

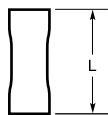
<sup>4</sup>Funnel entry

<sup>5</sup>Oval expansion at one end; circular expansion at other end.

PLASTI-GRIP Terminals and Splices

**PLASTI-GRIP Terminals and Splices** (Continued)

**Parallel Splices**



**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Splice Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling**-pg. 66

Wire Size Circular Mils <sup>1</sup> [mm <sup>2</sup> ]	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Part Numbers Loose Piece
22-16 509-3,260 [0.26-1.65]	.760 19.30	Red	.120 3.05	34131*
	.760 19.30	Red	.140 3.56	34132*
	.760 19.30	Blue	.140 3.56	34133*
16-14 2,050-5,180 [1.04-2.62]	.760 19.30	Blue	.170 4.32	34134*
	.760 19.30	Blue	.135 x .245 3.43 x 6.22	34207 <sup>2*</sup>
12-10 5,180-13,100 [2.62-6.64]	.843 21.41	Yellow	.200 5.08	34135
	.870 22.10	Yellow	.230 5.84	34136*

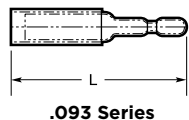
\*Available in small packaging quantities.

<sup>1</sup>When using two or more wires in a parallel splice, the combined cross sectional area must be within the (CMA) circular mil area listed.

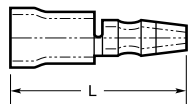
<sup>2</sup>Oval expansion.

**Shur-Plug**

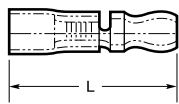
(.093, .156 and .180 Series)



.093 Series



.156 Series



.180 Series

**Material** (.093 Series)  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Brass per ASTM B-36

**Material** (.156 & .180 Series)  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling**-pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Series	Dimension L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
						Loose Piece	Tape Mounted
22-16 509-3,260 [0.26-1.65]	—	.093	.812 20.62	Red	.140 3.56	34178	—
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	.156	.800 20.32	Blue	.170 4.32	324227 <sup>†</sup>	1-324227-0
		.180	.753 19.13	Blue	.170 4.32	324228 <sup>†</sup>	—

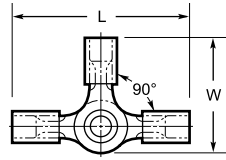
<sup>†</sup> Not UL or CSA Approved or Listed.

\*Available in small packaging quantities.



**PLASTI-GRIP Terminals and Splices** (Continued)

**3-Way Connector**



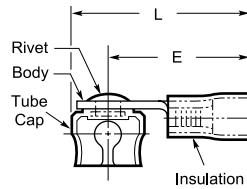
**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Rivet** -Brass per QQ-B-626  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number Loose Piece
		W Max.	L Max.			
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	.877 22.28	1.400 35.56	Blue	.145 3.68	34073*

\*Available in small packaging quantities.

**.250 Tube Cap Assembly**



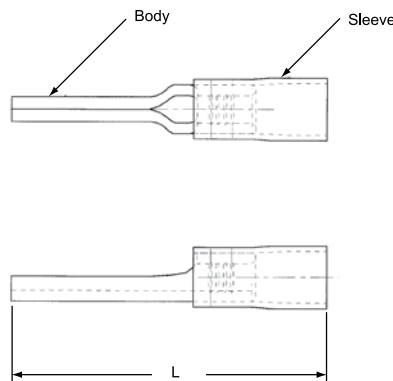
**Material**  
**Insulation** -Vinyl, UL 94V-0  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545  
**Tube Cap** -Copper/Zinc alloy per MIL-C-50  
**Plating** -Tin per ASTM B-545  
**Rivet** -Brass  
**Plating** -Tin per ASTM B-545 over Copper

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 66

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number Loose Piece
		E Max.	L Max.			
22-16 509-3,260 [0.26-1.65]	.033 0.84	.666 16.92	.978 24.84	Black	.140 3.56	55137-1†

† Not UL or CSA Approved or Listed.

**Wire Pins**

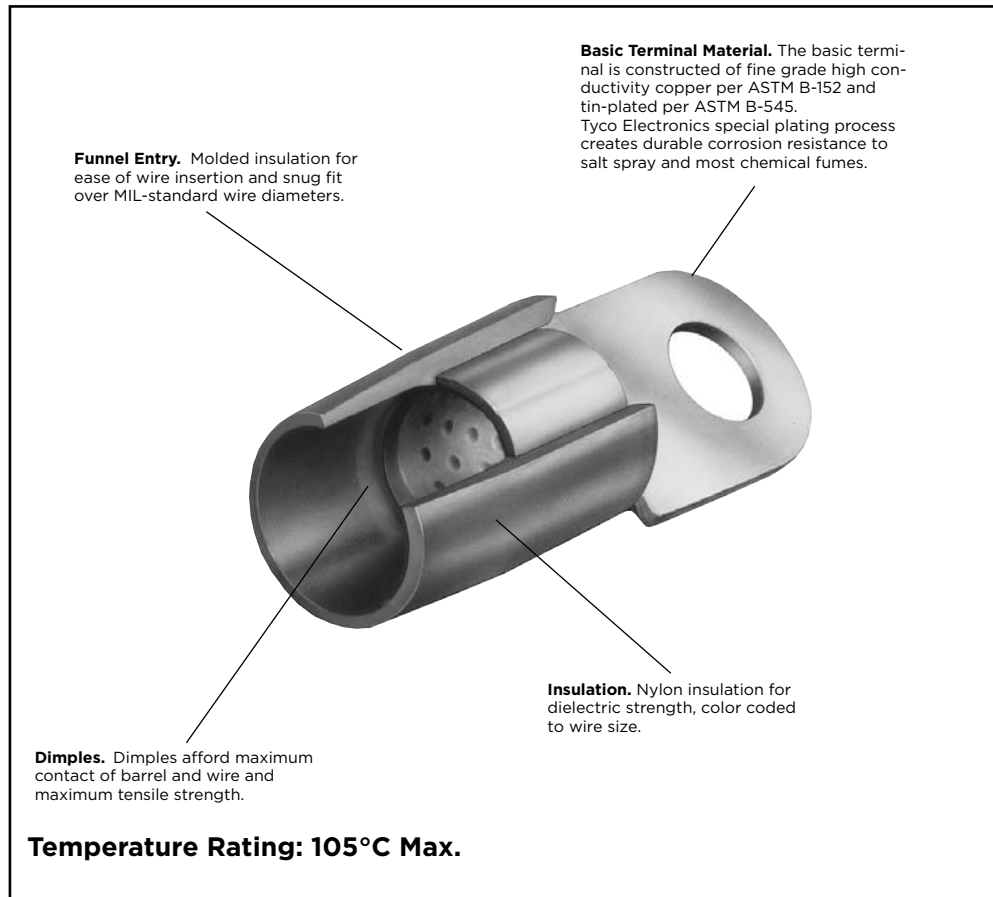


Wire Size Circular Mils [mm <sup>2</sup> ]	Tab	Dimensions		Terminal Insulation Color	Wire Insulation Diameter Max.	Part Number
		Ins.	L Max.			
22-16	.070 1.78	.140 3.56	.943 23.95	Red	.145 3.68	696116-1 (Tape)
	.071 1.80	.135 3.43	.905 22.99	Red	.145 3.68	165167 (Loose Piece)

## TERMINYL Terminals and Splices

### Product Facts

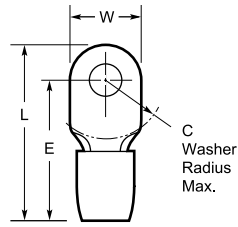
- Designed to provide insulated terminals and splices for large wire sizes, many of which are used in airborne and ground support applications
- Tested under the procedures stipulated by MIL Spec. MIL-T-7928, they meet and exceed requirements
- Designed and engineered to withstand extreme vibration, shock and structural stresses, elevated temperatures and other conditions which could adversely affect the circuit requirements in complex air and space flight equipment
- The use of matching AMP tooling provides for precision crimping which makes all terminations identical
- This uniformity promotes maximum reliability and, coupled with tool die marks on the barrel indicating the wire size and color coding of the insulation sleeve, also serves as a built-in quality control factor
- Pre-insulated with color coded nylon which also acts as insulation support
- Wire size range of terminals is 8 AWG through 4/0 AWG



TERMINYL Terminals meet or exceed the requirements of MIL-T-7928, Type II, Class 2. Refer to AMP Qualified Products for Military Application, Catalog 73-159 for Military Specification Number to AMP Part Number cross reference.

**TERMINYL Terminals and Splices** (Continued)

**Ring Tongue Terminals**



**Material**  
**Insulation** -Nylon, UL 94V-2  
**Terminal Body** -Copper per ASTM B-152  
**Plating** -Tin per ASTM B-545

**Related Product Data**  
**Insulation Color Code** -pg. 4  
**Packaging Quantities** -pg. 4  
**Performance Specifications** -pgs. 4 & 5  
**Application Tooling** -pg. 67

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers Loose Piece
			W	C	E Max.	L Max.			
8 13,100-20,800 [6.64-10.5]	.043 1.09	8 M4	.478 12.14	.437 11.10	1.183 30.05	1.425 36.20	Red	.256 6.50	53041
		10	.431 10.95	.437 11.10	1.183 30.05	1.402 35.61	Red	.256 6.50	324043
		1/4 M6	.478 12.14	.437 11.10	1.183 30.05	1.425 36.20	Red	.256 6.50	324082
		5/16 M8	.587 14.91	.500 12.70	1.246 31.65	1.542 39.17	Red	.256 6.50	324044
		3/8	.587 14.91	.500 12.70	1.246 31.65	1.542 39.17	Red	.256 6.50	324045
6 20,800-33,100 [10.5-16.8]	.048 1.22	10	.398 10.11	.515 13.08	1.447 36.75	1.700 43.18	Blue	.314 7.98	53119-1 <sup>1</sup>
		10	.468 11.89	.421 10.69	1.338 33.99	1.575 40.01	Blue	.314 7.98	324046
		1/4 M6	.500 12.70	.515 13.08	1.447 36.75	1.700 43.18	Blue	.314 7.98	324047
		5/16 M8	.625 15.88	.515 13.08	1.447 36.75	1.762 44.75	Blue	.314 7.98	324048
		3/8	.625 15.88	.515 13.08	1.447 36.75	1.762 44.75	Blue	.314 7.98	324049
4 33,100-52,600 [16.8-26.7]	.051 1.30	8 M4	.437 11.10	.265 6.73	1.155 29.34	1.376 34.95	Yellow	.382 9.70	331456
		10	.437 11.10	.265 6.73	1.155 29.34	1.376 34.95	Yellow	.382 9.70	1-331456-0
		10	.546 13.87	.531 13.49	1.536 39.01	1.812 46.02	Yellow	.382 9.70	324111
		1/4 M6	.546 13.87	.531 13.49	1.536 39.01	1.812 46.02	Yellow	.382 9.70	324050
		5/16 M8	.679 17.25	.531 13.49	1.536 39.01	1.878 47.70	Yellow	.382 9.70	324051
		3/8	.679 17.25	.531 13.49	1.536 39.01	1.878 47.70	Yellow	.382 9.70	324052*
		1/2 M12	.679 17.25	.531 13.49	1.536 39.01	1.878 47.70	Yellow	.382 9.70	324114
4HD <sup>3</sup> 33,100-52,600 [16.8-26.7]	.094 2.39	1/4 M6	.500 12.70	.390 9.91	1.349 34.26	1.602 40.69	Yellow	.443 11.25	330966
		5/16 M8	.679 17.25	.456 11.58	1.565 39.75	1.907 48.44	Yellow	.443 11.25	1-331421-0
		3/8	.679 17.25	.456 11.58	1.565 39.75	1.907 48.44	Yellow	.443 11.25	1-331421-1
2 52,600-83,700 [26.7-42.4]	.060 1.52	10	.711 18.06	.578 14.68	1.705 43.31	2.063 52.40	Red	.468 11.89	328655
		1/4 M6	.679 17.25	.578 14.68	1.705 43.31	2.045 51.94	Red	.468 11.89	324053
		5/16 M8	.711 18.06	.578 14.68	1.705 43.31	2.063 52.40	Red	.468 11.89	324112
		3/8	.711 18.06	.578 14.68	1.705 43.31	2.063 52.40	Red	.468 11.89	324054
		1/2 M12	.855 21.72	.578 14.68	1.705 43.31	2.135 54.23	Red	.468 11.89	324055

\*Available in small packaging quantities.

<sup>1</sup>Rectangular tongue terminal

<sup>2</sup>90° bend ring tongue terminal

<sup>3</sup>Heavy duty for extra mechanical strength.

TERMINYL Terminals and Splices

**TERMINYL Terminals and Splices** (Continued)

**Ring Tongue Terminals**

(Continued)

Wire Size Circular Mils [mm <sup>2</sup> ]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
			W	C	E Max.	L Max.			Loose Piece	
1/0 83,700-119,500 [42.4-60.6]	<b>.073</b> 1.85	1/4 M6	<b>.675</b> 17.15	<b>.625</b> 15.88	<b>2.033</b> 51.64	<b>2.360</b> 59.94	Blue	<b>.580</b> 14.73	55822-1	
			<b>.807</b> 20.50	<b>.625</b> 15.88	<b>2.033</b> 51.64	<b>2.426</b> 61.62	Blue	<b>.580</b> 14.73	324056	
		5/16 M8	<b>.807</b> 20.50	<b>.625</b> 15.88	<b>2.033</b> 51.64	<b>2.426</b> 61.62	Blue	<b>.580</b> 14.73	324113	
			<b>.807</b> 20.50	<b>.625</b> 15.88	<b>2.033</b> 51.64	<b>2.426</b> 61.62	Blue	<b>.580</b> 14.73	324057	
		1/2 M12	<b>.875</b> 22.23	<b>.625</b> 15.88	<b>2.017</b> 51.23	<b>2.454</b> 62.33	Blue	<b>.580</b> 14.73	324058	
2/0 119,500-150,500 [60.6-76.3]	<b>.083</b> 2.11	5/16 M8	<b>.926</b> 23.52	<b>.625</b> 15.88	<b>2.026</b> 51.46	<b>2.416</b> 61.37	Yellow	<b>.610</b> 15.49	324083	
		3/8	<b>.926</b> 23.52	<b>.625</b> 15.88	<b>2.026</b> 51.46	<b>2.416</b> 61.37	Yellow	<b>.610</b> 15.49	324084	
		1/2 M12	<b>.926</b> 23.52	<b>.625</b> 15.88	<b>2.026</b> 51.46	<b>2.416</b> 61.37	Yellow	<b>.610</b> 15.49	324085	
3/0 150,500-190,000 [76.3-96.3]	<b>.094</b> 2.39	3/8	<b>1.082</b> 27.48	<b>.625</b> 15.88	<b>2.294</b> 58.27	<b>2.794</b> 70.97	Red	<b>.680</b> 17.27	324185	
4/0 190,000-231,100 [96.3-117]	<b>.105</b> 2.67	3/8	<b>.835</b> 21.21	<b>.625</b> 15.88	<b>2.295</b> 58.29	<b>2.700</b> 68.58	Blue	<b>.765</b> 19.43	329150	
			<b>1.150</b> 29.21	<b>.625</b> 15.88	<b>2.295</b> 58.29	<b>2.858</b> 72.59	Blue	<b>.765</b> 19.43	324187	
		1/2 M12	<b>1.150</b> 29.21	<b>.625</b> 15.88	<b>2.295</b> 58.29	<b>2.858</b> 72.59	Blue	<b>.765</b> 19.43	324188	

**TERMINYL Terminals and Splices** (Continued)

**Butt Splices**

**Material**

**Insulation Sleeve** -Nylon, UL 94V-2

**Splice Body** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545

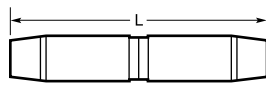
**Related Product Data**

**Insulation Color Code** -pg. 4

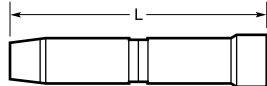
**Packaging Quantities** -pg. 4

**Performance Specifications** - pgs. 4 & 5

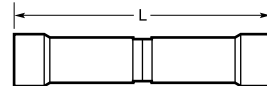
**Application Tooling** -pg. 67



Single to single-  
Standard splice or  
step down assembly



Single to multiple  
Standard splice



Multiple to Multiple  
Standard splice

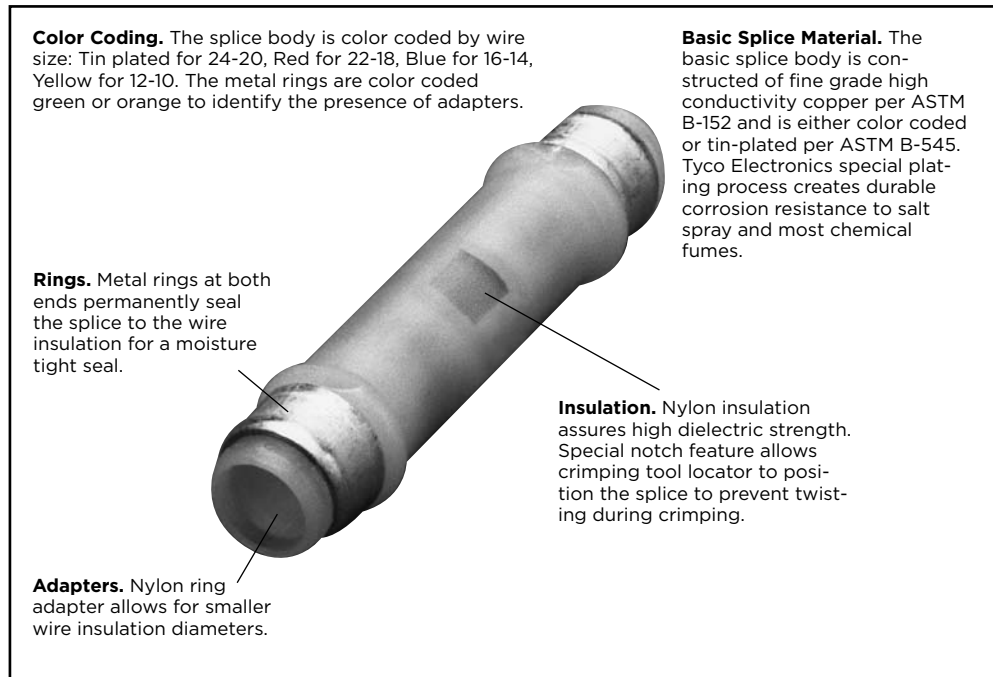
Wire Size Circular Mils [mm <sup>2</sup> ]	Style	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.		Part Numbers
				Single End	Multiple End	
8 to 12-10 13,100-20,800 [6.64-10.5] to 5,180-13,100 [2.62-6.64]	Single to Single Step-Down Assembly	<b>2.066</b> 52.48	Red w/ Yellow at adapter end	<b>.255</b> 6.48	—	328569
6 to 8 20,800-33,100 [10.5-16.8] to 13,100-20,800 [6.64-10.5]	Single to Single Step-Down Assembly	<b>2.265</b> 57.53	Blue w/ Red at adapter end	<b>.310</b> 7.87	—	328571
8 13,100-20,800 [6.64-10.5]	Single to Single Standard Splice	<b>2.066</b> 52.48	Red	<b>.255</b> 6.48	—	324625
6 20,800-33,100 [10.5-16.8]		<b>2.265</b> 57.53	Blue	<b>.310</b> 7.87	—	324660
4 33,100-52,600 [16.8-26.7]		<b>2.804</b> 71.22	Yellow	<b>.370</b> 9.40	—	324622
2 52,600-83,700 [26.7-42.4]		<b>3.094</b> 78.59	Red	<b>.445</b> 11.30	—	324623
8 13,100-20,800 [6.64-10.5]		<b>2.171</b> 55.14	Red	<b>.255</b> 6.48	<b>.335</b> 8.51	324658
6 20,800-33,100 [10.5-16.8]	Single to Multiple Standard Splice	<b>2.359</b> 59.92	Blue	<b>.310</b> 7.87	<b>.415</b> 10.54	324621
4 33,100-52,600 [16.8-26.7]	Multiple to Multiple Standard Splice	<b>2.804</b> 71.22	Yellow	<b>.370</b> 9.40	<b>.495</b> 12.57	324662
8 13,100-20,800 [6.64-10.5]		<b>2.276</b> 57.81	Red	—	<b>.335</b> 8.51	324657
6 20,800-33,100 [10.5-16.8]		<b>2.484</b> 63.09	Blue	—	<b>.415</b> 10.54	324659
2 52,600-83,700 [26.7-42.4]		<b>3.094</b> 78.59	Red	—	<b>.595</b> 15.11	324663

<sup>1</sup>Step-Down Assembly includes adapter which is visible through insulation sleeve window.

## CERTI-SEAL Terminals and Splices

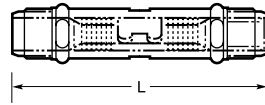
### Product Facts

- Nylon window splice for military, commercial, aircraft, and missile applications that seals out vapors and fluids and imparts exceptional wire insulation support
- Metal rings at both ends of splice and permanently crimped to wire insulation for a moisture tight seal, even at altitude
- Designed to fit more than 100 insulation diameters in MIL-Spec wires from #24 to #10 AWG, and is available in three types
- First type is made with a nylon ring adapter within the wire entrance
- Second type, without nylon ring adapters
- Third type with a nylon ring adapter in one end only
- Special notch feature on the outside of the splice allows locator in the crimping tool to precisely position splice before crimping and to prevent twisting or horizontal movement during crimping
- Window area of each splice permits visual inspection of the linear plane of the crimp in relation to the inner metal sleeve
- Wire-stops in splice barrel indicate exact insertion depth of stripped wire-ends



**CERTI-SEAL Terminals and Splices** (Continued)

**Splice**



**Material**

**Insulation** -Nylon, UL 94V-2

**Splice Body** -Copper per ASTM B-152

**Plating** -Tin per ASTM B-545 or Zinc Plate/Dye Chromate

**Related Product Data**

**Insulation Color Code** -pg. 4

**Packaging Quantities** -pg. 4

**Performance Specifications** -pgs. 4 & 5

**Application Tooling** -shown below

**Splices with nylon wire insulation diameter adapters**

Wire Size Circular Mills [mm <sup>2</sup> ]	L Max.	Body Color	Ring Color	Wire Insulation Dia. Max.	Part Numbers	Hand Tool Part No.
24-20 320-1,290 [0.16-0.65]	<b>.970</b> 24.64	Tin Plated	Green	<b>.065</b> 1.65	324987	46073
24-20 320-1,290 [0.16-0.65]	<b>.970</b> 24.64	Tin Plated	Orange	<b>.073</b> 1.85	1-324987-0	46073
22-18 509-1,900 [0.26-0.96]	<b>1.156</b> 29.36	Red	Green	<b>.101</b> 2.57	324988	46074
16-14 2,050-5,180 [1.04-2.62]	<b>1.156</b> 29.36	Blue	Green	<b>.120</b> 3.05	324989	59282
12-10 5,180-13,100 [2.62-6.64]	<b>1.345</b> 34.16	Yellow	Green	<b>.150</b> 3.81	324990	58325-1

**Splices without nylon wire insulation diameter adapters**

Wire Size Circular Mills [mm <sup>2</sup> ]	L Max.	Body Color	Ring Color	Wire Insulation Dia. Max.	Part Numbers	Hand Tool Part No.
24-20 320-1,290 [0.16-0.65]	<b>.970</b> 24.64	Tin Plated	Tin Plated	<b>.100</b> 2.54	324544	46073
22-18 509-1900 [0.26-0.96]	<b>1.156</b> 29.36	Red	Tin Plated	<b>.133</b> 3.38	324548	46074
16-14 2,050-5,180 [1.04-2.62]	<b>1.156</b> 29.36	Blue	Tin Plated	<b>.157</b> 3.99	324549	59282
12-10 5,180-13,100 [2.62-6.64]	<b>1.345</b> 34.16	Yellow	Tin Plated	<b>.218</b> 5.54	324631	58325-1
16-14 HD	<b>1.345</b> 34.16	Tin Plated	Tin Plated	<b>.218</b> 5.54	55685-1	58325-1

**Splices with nylon wire insulation diameter adapter in one end**

Wire Size Circular Mills [mm <sup>2</sup> ]	L Max.	Body Color	Ring Color	Wire Insulation Dia. Max.		Part Number	Hand Tool Part No.
				Adapter End	Other End		
24-20 320-1,290 [0.16-0.65]	<b>.970</b> 24.64	Tin Plated	Orange & Tin Plated	<b>.073</b> 1.85	<b>.100</b> 2.54	1-324987-1	46073

**Tooling**



**Tool Part No. 46073 or 46074**



**Tool Part No. 59282 or 58325-1**

Hand tooling features the AMP CERTI-CRIMP ratchet so that the operator fully closes tool so that crimping dies in tool head fully “bottom”. Locator feature in head assures that splice is properly oriented in tool. CERTI-SEAL Tools do not require wire insulation adjustment prior to crimping.



## Class 1 and Class 2 Military Approvals

Approval	Dimensional Requirement	Application Tooling	Use	Performance Requirement
Class 1	Terminals must comply with the dimensional requirements specified by the military.	Hand application tool which must conform to the military's dimensional and performance specification.	For procurement by government agencies for maintenance and repair.	
Class 2	Terminals must comply with the dimensional requirements specified by the manufacturer's customer drawing. For field repair purposes Class 2 terminals must be capable of being replaced by Class 1 Terminals.	The terminal manufacturers recommended application tooling. <b>Note:</b> Several tape mounted part numbers are currently Class 2 approved.	For procurement by contractors and manufacturers for high volume production, modification, and repair.	Per Military Specification Mil-T-7928G

### Military Specifications MS 25036

AWG	MS25036 Dash Numbers	PIDG Part Numbers		Class	Stud Size
		Loose Piece	Tape Mounted		
22-18	101	36149	—	1 & 2	6
		—	2-36149-2	2	6
	102	36150	—	1 & 2	6
		—	2-36150-1	2	6
	103	51863	—	1 & 2	6
		—	51863-1	2	6
	104	36153	—	1 & 2	10
		—	2-36153-2	2	10
	105	36154	—	1 & 2	10
		—	2-36154-2	2	10
	106	31895	—	1 & 2	5/16
		—	2-31895-1	2	5/16
	107	320572	—	1 & 2	5/16
		—	2-320572-1	2	5/16
108	31897	—	1 & 2	3/8	
	—	2-31897-2	2	3/8	
109	320573	—	1 & 2	3/8	
	—	2-320573-4	2	3/8	
110	320561	—	1 & 2	6	
	—	2-320561-2	2	6	
111	51864	—	1 & 2	6	
	—	51864-3	2	6	
112	51864-2	—	1 & 2	10	
	—	51864-4	2	10	
113	320575	—	1 & 2	5/16	
	—	2-320575-1	2	5/16	
114	320564	—	1 & 2	3/8	
	—	2-320564-3	2	3/8	
16-14	101	35107	—	1 & 2	6
		—	2-35107-1	2	6
	102	320567	—	1 & 2	6
		—	2-320567-2	2	6
	103	35109	—	1 & 2	10
		—	2-35109-1	2	10
	104	36161	—	1 & 2	10
		—	2-36161-2	2	10
	105	35111	—	1 & 2	5/16
		—	2-35111-1	2	5/16
	106	320576	—	1 & 2	5/16
		—	2-320576-1	2	5/16
	107	35112	—	1 & 2	3/8
		—	2-35112-1	2	3/8
108	320577	—	1 & 2	3/8	
	—	2-320577-3	2	3/8	

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
MS 25036**

(Continued)

AWG	MS25036 Dash Numbers	TERMINYL Part Numbers		Class	Stud Size
		Loose Piece	Tape Mounted		
8	115	324043	—	2	10
	116	324082	—	2	1/4
	117	324044	—	2	5/16
	118	324045	—	2	3/8
	119	324046	—	2	10
6	120	324047	—	2	1/4
	121	324048	—	2	5/16
	122	324049	—	2	3/8
4	123	324050	—	2	1/4
	124	324051	—	2	5/16
	125	324052	—	2	3/8
	126	324053	—	2	1/4
2	127	324054	—	2	3/8
	128	324055	—	2	1/2
	129	324056	—	2	1/4
1 <sup>1</sup>	130	324057	—	2	3/8
	131	324058	—	2	1/2
1/0	132	324056	—	2	1/4
	133	324057	—	2	3/8
	134	324058	—	2	1/2
2/0	135	324083	—	2	5/16
	136	324084	—	2	3/8
	137	324085	—	2	1/2
3/0	138	324185	—	2	3/8
4/0	140	324187	—	2	3/8
	141	324188	—	2	1/2

<sup>1</sup>Tyco Electronics recommends #1/0 AWG terminals for #1 AWG application.

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
MS 25036**

(Continued)

AWG	MS25036 Dash Numbers	PIDG Part Numbers		Class	Stud Size
		Loose Piece	Tape Mounted		
26-24	143	54310-1	—	1 & 2	2
		323913	—	2	2
	144	52189	—	1 & 2	4
		323914	2-323914-1	2	4
	145	53073	—	1 & 2	6
		326875	2-326875-1	2	6
	146	54311-1	—	1 & 2	8
		323916	2-323916-1	2	8
	147	54312-1	—	1 & 2	10
		—	54312-2	2	10
22-18	148	324075	2-324075-1	2	10
		31880	—	1 & 2	4
	149	—	2-31880-1	2	4
		320553	—	1 & 2	4
	150	—	2-320553-2	2	4
		31890	—	1 & 2	8
	151	—	2-31890-1	2	8
		320551	—	1 & 2	8
	152	—	1-320551-1	2	8
		31894	—	1 & 2	1/4
153	—	2-31894-2	2	1/4	
	320571	—	1 & 2	1/4	
16-14	—	2-320571-2	2	1/4	
	154	328975	—	1 & 2	1/2
12-10	155	324159	—	1 & 2	4
	156	51864-1	—	1 & 2	8
12-10	157	—	51864-5	2	8
	158	320563	—	1 & 2	1/4
12-10	159	—	2-320563-2	2	1/4
	160	328976	—	1 & 2	1/2
12-10	161	35108	—	1 & 2	8
	162	—	2-35108-1	2	8
12-10	163	320568	—	1 & 2	8
	164	—	2-320568-1	2	8
12-10	165	35110	—	1 & 2	1/4
	166	—	2-35110-1	2	1/4
12-10	167	320569	—	1 & 2	1/4
	168	—	2-320569-3	2	1/4
12-10	169	52077	—	2	1/2

Military Approvals

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
M7928/1**

AWG	M7928/1 Dash Numbers	PIDG-Insulation Restricting		Class	Stud Size
		Part Numbers			
		Loose Piece	Tape Mounted		
26	1	53078	—	1 & 2	2
	2	53049	—	1 & 2	4
	3	53050	—	1 & 2	6
	4	53051	—	1 & 2	8
	5	53052	—	1 & 2	10
24	6	53053	—	1 & 2	2
	7	53054	—	1 & 2	4
	8	53055	—	1 & 2	6
	9	53056	—	1 & 2	8
	10	53057	—	1 & 2	10
22	11	52273	—	1 & 2	4
	12	2-36149-3	—	1 & 2	6
	13	51863-2	—	1 & 2	6
		—	51863-5	2	6
	14	1-320551-2	—	1 & 2	8
		—	1-320551-5	2	8
	15	2-36153-3	—	1 & 2	10
		—	2-36153-6	2	10
	16	2-320571-3	—	1 & 2	1/4
	17	2-320572-2	—	1 & 2	5/16
18	2-320573-1	—	1 & 2	3/8	
19	2-328975-1	—	1 & 2	1/2	
20	20	52273-1	—	1 & 2	4
	21	2-36149-4	—	1 & 2	6
	22	51863-3	—	1 & 2	6
		—	51863-6	2	6
	23	1-320551-3	—	1 & 2	8
	24	2-36153-4	—	1 & 2	10
		—	2-36153-8	2	10
	25	2-320571-4	—	1 & 2	1/4
	26	2-320572-3	—	1 & 2	5/16
	27	2-320573-2	—	1 & 2	3/8
28	2-328975-2	—	1 & 2	1/2	
18	29	52273-2	—	1 & 2	4
	30	2-36149-5	—	1 & 2	6
	31	51863-4	—	1 & 2	6
		—	51863-7	2	6
	32	1-320551-4	—	1 & 2	8
		—	1-320551-8	2	8
	33	2-36153-5	—	1 & 2	10
		—	2-36153-9	2	10
	34	2-320571-5	—	1 & 2	1/4
	35	2-320572-4	—	1 & 2	5/16
36	2-320573-3	—	1 & 2	3/8	
37	2-328975-3	—	1 & 2	1/2	
16	38	52274	—	1 & 2	4
	39	2-320561-3	—	1 & 2	6
	40	51864-6	—	1 & 2	6
		—	1-51864-2	2	6
	41	1-51864-0	—	1 & 2	8
	42	51864-7	—	1 & 2	10
		—	1-51864-3	2	10
	43	2-320563-3	—	1 & 2	1/4
	44	2-320575-2	—	1 & 2	5/16
	45	2-320564-1	—	1 & 2	3/8
46	2-328976-1	—	1 & 2	1/2	

Military Approvals

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
M7928/1**

(Continued)

AWG	M7928/1 Dash Numbers	PIDG-Insulation Restricting		Class	Stud Size
		Part Numbers			
		Loose Piece	Tape Mounted		
14	47	52274-1	—	1 & 2	4
	48	2-320561-4	—	1 & 2	6
	49	51864-8	—	1 & 2	6
	50	1-51864-1	—	1 & 2	8
		—	1-51864-7	2	8
	51	51864-9	—	1 & 2	10
		—	1-51864-5	2	10
	52	2-320563-4	—	1 & 2	1/4
	53	2-320575-3	—	1 & 2	5/16
	54	2-320564-2	—	1 & 2	3/8
55	2-328976-2	—	1 & 2	1/2	
12	56	2-36161-5	—	1 & 2	6
	57	2-320568-2	—	1 & 2	8
	58	2-36161-3	—	1 & 2	10
	59	2-320569-5	—	1 & 2	1/4
	60	2-320576-2	—	1 & 2	5/16
	61	2-320577-1	—	1 & 2	3/8
	62	52077-1	—	2	1/2
	63	2-36161-6	—	1 & 2	6
10	64	2-320568-3	—	1 & 2	8
	65	2-36161-4	—	1 & 2	10
		—	2-36161-8	2	10
	66	2-320569-6	—	1 & 2	1/4
		—	2-320569-8	2	1/4
	67	2-320576-3	—	1 & 2	5/16
	68	2-320577-2	—	1 & 2	3/8
69	52077-2	—	2	1/2	

**Military Specifications  
M7928/4**

AWG	M7928/4 Dash Numbers	PIDG PVF <sub>2</sub>		Class	Stud Size
		Part Numbers			
		Loose Piece	Tape Mounted		
22-18	101	53406-1	—	1 & 2	6
	102	53407-1	—	1 & 2	6
		—	53407-2	2	6
	103	53409-1	—	1 & 2	10
	104	53411-1	—	1 & 2	5/16
	105	53412-1	—	1 & 2	3/8
16-14	106	53415-1	—	1 & 2	6
	107	53416-1	—	1 & 2	6
		—	53416-2	2	6
	108	53418-1	—	1 & 2	10
		—	53418-2	2	10
109	53420-1	—	1 & 2	5/16	
110	53421-1	—	1 & 2	3/8	
12-10	111	53423-1	—	1 & 2	6
	112	53425-1	—	1 & 2	10
		—	53425-2	2	10
	113	53427-1	—	1 & 2	5/16
	114	53428-1	—	1 & 2	3/8
26-24	143	53400-1	—	1 & 2	2
	144	53401-1	—	1 & 2	4
	145	53402-1	—	1 & 2	6
	146	53403-1	—	1 & 2	8
	147	53404-1	—	1 & 2	10

Military Approvals

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
M7928/4**

(Continued)

AWG	M7928/4 Dash Numbers	PIDG PVF <sub>2</sub>		Class	Stud Size
		Part Numbers			
		Loose Piece	Tape Mounted		
22-18	148	53405-1	—	1 & 2	4
		53408-1	—	1 & 2	8
	149	—	53408-2	2	8
		53410-1	—	1 & 2	1/4
		—	53410-2	2	1/4
16-14	151	53413-1	—	1 & 2	1/2
		53414-1	—	1 & 2	4
	153	53417-1	—	1 & 2	8
		53419-1	—	1 & 2	1/4
		53422-1	—	1 & 2	1/2
12-10	156	53424-1	—	1 & 2	8
		—	53424-2	2	8
	157	53426-1	—	1 & 2	1/4
		53429-1	—	2	1/2

**Military Specifications  
M7928/5**

AWG	M7928/5 Dash Numbers	PIDG Window Splice		Class
		Part Numbers		
		Loose Piece	Tape Mounted	
26-24	1	323994	—	1 & 2
24-20		323975	—	1 & 2
22-18	2	—	2-323975-3	2
		320559	—	1 & 2
		—	2-320559-4	2
16-14	3	320562	—	1 & 2
		—	2-320562-3	2
12-10	4	320570	—	1 & 2

**Military Specifications  
M7928/6**

AWG	M7928/6 Dash Numbers	PIDG Window Splice PVF <sub>2</sub>		Class
		Part Numbers		
		Loose Piece	Tape Mounted	
26-24	1	53546-1	—	1 & 2
24-20		53547-1	—	1 & 2
22-16	2	—	53547-2	2
		53548-1	—	1 & 2
		—	53548-2	2
16-14	3	53549-1	—	1 & 2

Military Approvals

**Class 1 and Class 2 Military Approvals** (Continued)

**Military Specifications  
MS 17143**

AWG	MS17143 Dash Numbers	PIDG		Class	Stud Size
		Part Numbers			
		Loose Piece	Tape Mounted		
22-18	1	327932	—	1 & 2	8
16-14	2	2-327934-2	—	1 & 2	8
12-10	3	327936	—	1 & 2	8
22-18	4	2-327938-1	—	1 & 2	6
		—	2-327938-2	2	6
16-14	5	2-327940-4	—	1 & 2	6
12-10	6	327942	—	1 & 2	6
22-18	7	327944	—	1 & 2	8
		—	2-327944-2	2	8
16-14	8	2-327946-4	—	1 & 2	8
12-10	9	327948	—	1 & 2	8
22-18	10	2-327950-1	—	1 & 2	5
16-14	11	2-327952-2	—	1 & 2	5
		—	2-327952-6	2	5
12-10	12	327954	—	1 & 2	5
		—	2-327954-2	2	5
22-18	13	2-327956-1	—	1 & 2	6
16-14	14	2-327958-4	—	1 & 2	6
12-10	15	2-327960-1	—	1 & 2	6
		—	2-327960-2	2	6
22-18	16	327962	—	1 & 2	4
16-14	17	2-327964-4	—	1 & 2	4
12-10	18	327966	—	1 & 2	4
22-18	19	2-327968-1	—	1 & 2	4
16-14	20	2-327970-4	—	1 & 2	4
12-10	21	327972	—	1 & 2	4



## Tooling

### Insulated Terminals and Splices — 30 to 10 AWG Wire Range

Description	AMP Wire Range	Tools for Loose Piece Termination				Tools for Tape Mounted Terminations				
		Hand Tools		Pneumatic Tools		Tape Dies for 69875 AMP-TAPETRONIC No Applicator Required	Tape Dies for 354500-1 AMP-O-LECTRIC Model "G" Applicator 567200-3	Tape Dies for 818380-1 AUTO-PRO Applicator 818057-2	Tape Dies for AMPOMATOR CLS III G, CLS IV AMP-O-LECTRIC Applicator 687658-1	Tape Dies for 565435-5 AMP-O-LECTRIC Model "K" Applicator 567200-2
		Single Wire Range	Multi-Wire Range	Heads for 6-26 Single Wire Range	Heads for 6-26 Multi-Wire Range					
PIDG Terminals & Splices and PLASTI-GRIP Terminals	30-26	69163—uses 26-22 Terms.	—	—	—	—	—	—	—	—
	26-22	46121 <sup>1</sup>	59275 <sup>1</sup>	314537-1	—	69344	69877	69877	69877	69877
	22-16	47386 <sup>†</sup>	59250 <sup>†</sup> 59824-1 58433-3 <sup>2</sup>	314270-3	679305-1	47806-2	69872* 59826-1 <sup>1</sup>	69872* 59826-1 <sup>1</sup>	69872* 59826-1 <sup>1</sup>	69872* 59826-1 <sup>1</sup>
	16-14	68343-1 (.250 exp.) 47387	59250 <sup>†</sup> 59824-1 <sup>1</sup> 58433-3 <sup>2</sup>	314269-1	679305-1	47807-1	69873* 59827-1 <sup>1</sup>	69873* 59827-1 <sup>1</sup>	69873* 59827-1 <sup>1</sup>	69873* 59827-1 <sup>1</sup>
	12-10 16-14 HD	59239-4 <sup>†</sup> 59287-2 (.300 exp.)	59824-1 <sup>1</sup> 58433-3 <sup>2</sup>	679300-1	679305-1	47808-6 Std. 47808-5 (.300 exp.)	69874* 69897 (.300 exp.) 59828-1 <sup>1</sup>	69874* 69897 (.300 exp.) 59828-1 <sup>1</sup>	69874* 69897 (.300 exp.) 59828-1 <sup>1</sup>	69874* 69897 (.300 exp.) 59828-1 <sup>1</sup>
PLASTI-GRIP Splices	26-22	46121 (butt spl. only)	—	—	—	—	—	—	—	—
	22-16	45160 (butt spl. only) 45449 (parallel spl. only)	58433-3 <sup>2</sup> (butt spl. only)	314868-1 (butt spl. only)	—	—	69872 (butt spl. only)	69872 (butt spl. only)	69872 (butt spl. only)	69872 (butt spl. only)
	16-14	45575-1 (butt spl. only) 45450 (parallel spl. only)	58433-3 <sup>2</sup> (butt spl. only)	314869-1 (butt spl. only)	—	—	69873 (butt spl. only)	69873 (butt spl. only)	69873 (butt spl. only)	69873 (butt spl. only)
	12-10 16-14 HD	59489 (butt spl. only) 59287-1 (.300 exp. butt spl. only) 59270 (parallel spl. only)	58433-3 <sup>2</sup> (butt spl. only)	—	—	—	69874 (butt spl. only)	69874 (butt spl. only)	69874 (butt spl. only)	69874 (butt spl. only)

<sup>1</sup>Tooling with adjustable insulation crimp.

\*Same die set/configuration as in hand tools.

<sup>†</sup>TETRA-CRIMP die configuration.

<sup>2</sup>PRO-CRIMPER II commercial tool not approved for UL applications.

<sup>3</sup>69710-1 hand tool.

<sup>4</sup>6-26 Pneumatic Tool Adapter

**Tooling** (Continued)

**Insulated Terminals and Splices – 8 to 4/0 AWG Wire Range**

Description	Wire Size	Tools for Loose Piece Terminations				Tools for Tape Mounted Terminations	
		Hand Tools	Dies for Crimp Head 69051 <sup>1</sup> & Hydraulic Hand Tool 59974-1	Dies for Crimp Head 69066 <sup>1</sup> & 58422-1 <sup>1</sup>	Head for Pneumatic Hand Tool 69015	Dies for AMP-TAPETRONIC Machine 68250-1	Dies for AMP-TAPETRONIC Machine with Insulation Adjustment 68250-2
PLASTI-GRIP Terminals and Splices	8	69959	48752-1 47820 <sup>2</sup>	—	—	68247-1 <sup>2</sup>	1214512-1 <sup>3</sup> 1214512-2 <sup>4</sup>
	6	—	48753-1 47821 <sup>2</sup>	—	68325-1	68248-1 <sup>2</sup>	1213500-1 <sup>3</sup> 1213500-2 <sup>4</sup>
	4	—	48754-1 47822 <sup>2</sup>	—	—	68249-1 <sup>2</sup>	1213098-1 <sup>3</sup> 1213098-2 <sup>4</sup>
	2	—	48755-1 47823 <sup>2</sup>	—	—	—	—
	1/0	—	—	48756-1	—	—	—
	2/0	—	—	48757-1	—	—	—
TERMINYL Terminals and Splices	8	—	47820	—	68285-1	—	—
	6	—	47821	—	—	—	—
	4	—	47822	—	—	—	—
	2	—	47823	—	—	—	—
	1/0	—	—	47824	—	—	—
	2/0	—	—	47825	—	—	—
	3/0	—	—	47915	—	—	—
	4/0	—	—	47918	—	—	—
4 HD	—	—	69463	—	—	—	

<sup>1</sup>Heads for Power Units 69120-1, 69120-2, or 314979-1.

<sup>2</sup>No insulation crimp.

<sup>3</sup>Without insulation crimp.

<sup>4</sup>With insulation crimp.

**Insulated FASTON Terminals and Splices— 26 to 10 AWG Wire Range**

Wire Size	Hand Tool	Tools for Tape Mounted Terminations			Tools for Strip Form Terminations
		Tape Dies for 69875 AMP-TAPETRONIC No Applicator Required	Tape Dies for AMP-O-LECTRIC <sup>1</sup> Model "G" Applicator 567200-3	Tape Dies for AMPOMATOR CLS III G, CLS IV Applicator 687658-1	AMPOMATOR CLS III G, CLS IV Applicators
26-24	48518-2	69877-2	69877-2	69877-2	—
22-18	59824-1	59826-1	59826-1*	59826-1	466788-3 <sup>2</sup>
22-18 (Natural)	90185-1	90248-2	90248-2	90248-2	466554-3
16-14	59824-1	59827-1	59827-1*	59827-1	466789-3 <sup>2</sup>
14-12	90246-1	90240-2	90240-2	90240-2	—
12-10	59824-1	59828-1	59828-1*	59828-1	466790-4 <sup>2</sup>

\*Only UL and CSA approved.

<sup>1</sup>AMP-O-LECTRIC Model "K" 565435-5 uses applicator 567200-2.

<sup>2</sup>Die included with applicator.

**Tooling** (Continued)

**Loose Form Terminal and Splice Tooling**

**CERTI-CRIMP Hand Tools**



**Double Action Hand Tool**



**Heavy Head Hand Tool**



**“C” Head Straight Action Hand Tool**  
Part No. 69710-1



**PRO-CRIMPER II Hand Tool**  
Part No. 58433-3



**T-HEAD Tool**  
Part No. 59250, 59275

**TETRA-CRIMP Hand Tool**



**Part No. 59824-1**

**Hydraulic Hand Tools**



**Part No. 59974-1**  
**(Dies Required)**

**Tooling** (Continued)

**Pneumatic Tools**



**Part No. 69015**



**Part No. 69365 (Hand Actuation)  
Part No. 69365-2 (Foot Actuation)**

**Crimping Heads**



**Part No.  
58422-1**  
(408-9535)



**Part No.  
69066**  
(408-2453)



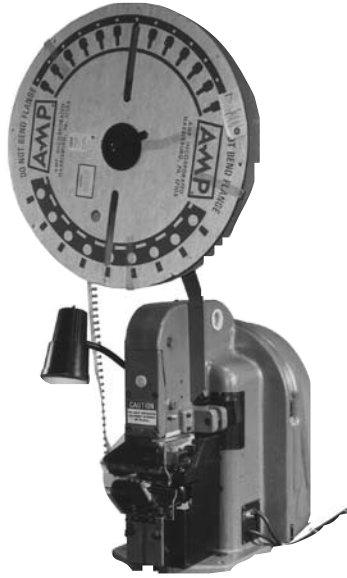
**Part No.  
69051**

**6-26 Tool**



**Tooling** (Continued)

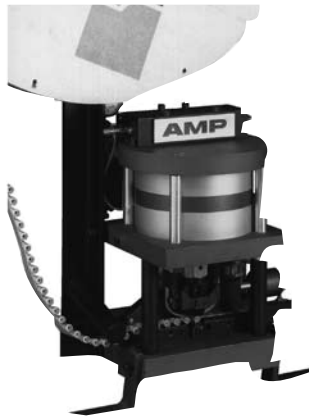
**Tape Mounted**



**AMP-TAPETRONIC Machine  
69875, 68250-1  
(Requires Dies)**



**AMP-O-LECTRIC, Model "G" Machine  
(Requires Applicator and Dies)**



**AUTO-PRO Machine 818380-1  
(Requires Applicator and Dies)**



**AMPOMATOR CLS IV Machine  
217500-1  
(Requires Applicator and Dies)**

## Part Number Index

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## Contact Us Worldwide

### Americas

**Argentina** – Buenos Aires  
Phone: +54-11-4733-2200  
Fax: +54-11-4733-2211

**Brasil** – São Paulo  
Phone: +55-11-2103-6000  
Fax: +55-11-2103-6030

**Chile** – Santiago  
Phone: +56-2-345-0361  
Fax: +56-2-223-1477

**Canada** – Toronto  
Phone: +905-475-6222  
Fax: +905-474-5520  
Product Information Center:  
Phone: +905-470-4425  
Fax: +905-474-5525

**Colombia** – Bogota  
Phone: +57-1-319-8959  
Fax: +57-1-319-8960

**Mexico** – Mexico City  
Phone: +52-55-1106-0800  
+01-800-733-8926  
Fax: +52-55-1106-0901

**For Latin/South American Countries not shown**  
Phone: +54-11-4733-2015  
Fax: +54-11-4733-2083

**United States**  
Harrisburg, PA  
Phone: +1-717-564-0100  
Fax: +1-717-986-7575  
Product Information Center:  
Phone: +1-800-522-6752  
Fax: +1-717-986-7575  
Troy, MI  
Phone: +1-248-273-3359  
Fax: +1-248-273-3322

### Asia/Pacific

**Australia** – Sydney  
Phone: +61-2-9554-2600  
Fax: +61-2-9502-2556  
Product Information Center:  
Phone: +61-2-9840-8200  
Fax: +61-2-9634-6188

**India** – Bangalore  
Phone: +91-80-285-40800  
Fax: +91-80-285-40820

**Indonesia** – Jakarta  
Phone: +65-6482-0311  
Fax: +65-6482-1012

**Japan** – Kawasaki, Kanagawa  
Phone: +81-44-844-8111  
Fax: +81-44-812-3207  
Product Information Center:  
Phone: +81-44-844-8013  
Fax: +81-44-812-3200

**Korea** – Seoul  
Phone: +82-2-3415-4500  
Fax: +82-2-3486-3810

**Malaysia** – Selangor  
Phone: +60-3-7805-3055  
Fax: +60-3-7805-3066

**New Zealand** – Auckland  
Phone: +64-9-634-4580  
Fax: +64-9-634-4586

**Philippines** – Makati City  
Phone: +632-848-0171  
Fax: +632-867-8661

**People's Republic of China**  
Hong Kong  
Phone: +852-2735-1628  
Fax: +852-2735-0243  
Shanghai  
Phone: +86-21-2407-1588  
Fax: +86-21-2407-1599

**Singapore** – Singapore  
Phone: +65-6482-0311  
Fax: +65-6482-1012

**Taiwan** – Taipei  
Phone: +886-2-8768-2788  
Fax: +886-2-8768-2268

**Thailand** – Bangkok  
Phone: +66-2-955-0500  
Fax: +66-2-955-0505

**Vietnam** – Ho Chi Minh City  
Phone: +84-8-930-5546  
Fax: +84-8-930-3443

### Europe/Middle East/Africa

**Austria** – Vienna  
Phone: +43-1-905-60-0  
Fax: +43-1-905-60-1333  
Product Information Center:  
Phone: +43-1-905-60-1249  
Fax: +43-1-905-60-1251

**Belarus** – Minsk  
Phone: +375 17 237 47 94  
Fax: +375 17 237 47 94

**Belgium** – Kessel-Lo  
Phone: +32-16-352-300  
Fax: +32-16-352-352

**Bulgaria** – Sofia  
Phone: +359-2-971-2152  
Fax: +359-2-971-2153

**Czech Republic and Slovakia**  
**Czech Republic** – Kurim  
Phone: +420-541-162-111  
Fax: +420-541-162-223  
Product Information Center:  
Phone: +420-541-162-113  
Fax: +420-541-162-132

**Denmark** – Glostrup  
Phone: +45-43-48-04-00  
Fax: +45-43-44-14-14

**Egypt** – Cairo  
Phone: +202-419-2334  
Fax: +202-417-7647

**Estonia** – Tartu  
Phone: +372-5138-274  
Fax: +372-7400-779

**Finland** – Helsinki  
Phone: +358-95-12-34-20  
Fax: +358-95-12-34-250

**France** – Cergy-Pontoise Cedex  
Phone: +33-1-3420-8888  
Fax: +33-1-3420-8600  
Product Information Center:  
Phone: +33-1-3420-8686  
Fax: +33-1-3420-8623

**France Export Divisions** –  
Cergy-Pontoise Cedex  
Phone: +33-1-3420-8804  
Fax: +33-1-3420-8699

**Germany** – Bensheim  
Phone: +49-6251-133-0  
Fax: +49-6251-133-1600  
Product Information Center:  
Phone: +49-6251-133-1999  
Fax: +49-6251-133-1988

**Greece** – Athens  
Phone: +30-210-9370-396/397  
Fax: +30-210-9370-655

**Hungary** – Budapest  
Phone: +36-1-289-1000  
Fax: +36-1-289-1010  
Product Information Center:  
Phone: +36-1-289-1016  
Fax: +36-1-289-1017

**Ireland** – Dublin  
Phone: +353-1-866-5612  
Fax: +353-1-866-5714

**Israel** – Petach-Tikva  
Phone: +972-3-929-0999  
Fax: +972-3-919-1088

**Italy** – Collegno (Torino)  
Phone: +39-011-4012-111  
Fax: +39-011-4031-116  
Product Information Center:  
Phone: +39-011-4012-428  
Fax: +39-011-40-287-428

**Lithuania and Latvia**  
**Lithuania** – Vilnius  
Phone: +370-5-213-1402  
Fax: +370-5-213-1403  
Product Information Center:  
Phone: +370-5-211-3016  
Fax: +370-5-213-1403

**Netherlands** – 's-Hertogenbosch  
Phone: +31-73-6246-246  
Fax: +31-73-6212-365  
Product Information Center:  
Phone: +31-73-6246-999  
Fax: +31-73-6246-998

**Norway** – Nesbru  
Phone: +47-66-77-88-50  
Fax: +47-66-77-88-55

**Poland** – Warsaw  
Phone: +48-22-4576-700  
Fax: +48-22-4576-720  
Product Information Center:  
Phone: +48-22-4576-704  
Fax: +48-22-4576-720

**Romania** – Bucharest  
Phone: +40-21-311-3479/3596  
Fax: +40-21-312-0574

**Russia** – Moscow  
Phone: +7-495-790-7902  
Fax: +7-495-721-1893  
Product Information Center:  
Phone: +7-495-790-7902-404  
Fax: +7-495-790-7902-401

**Russia** – St. Petersburg  
Phone: +7-812-718-8192  
Fax: +7-812-718-8193

**Slovenia** – Ljubljana  
Phone: +386-1561-3270  
Fax: +386-1561-3240

**South Africa** – Port Elizabeth  
Phone: +27-41-503-4500  
Fax: +27-41-581-0440

**Spain** – Barcelona  
Phone: +34-93-291-0330  
Fax: +34-93-201-7879

**Sweden** – Upplands Väsby  
Phone: +46-8-50-72-50-00  
Fax: +46-8-50-72-50-01

**Switzerland** – Steinhilf  
Phone: +41-71-447-0447  
Fax: +41-71-447-0444

**Turkey** – Istanbul  
Phone: +90-212-281-8181/2/3  
+90-212-282-5130/5430  
Fax: +90-212-281-8184

**Ukraine** – Kiev  
Phone: +380-44-206-2265  
Fax: +380-44-206-2264  
Product Information Center:  
Phone: +380-44-206-2265  
Fax: +380-44-206-2264

**United Kingdom** –  
Stanmore, Middlesex  
Phone: +44-8706-080208  
Fax: +44-208-954-6234  
Product Information Center:  
Freephone (UK only):  
0800-267-666  
Phone: +44-8706-080208  
Fax: +44-208-420-8095

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**Engineering Notes**

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