

Introduction

Product Facts

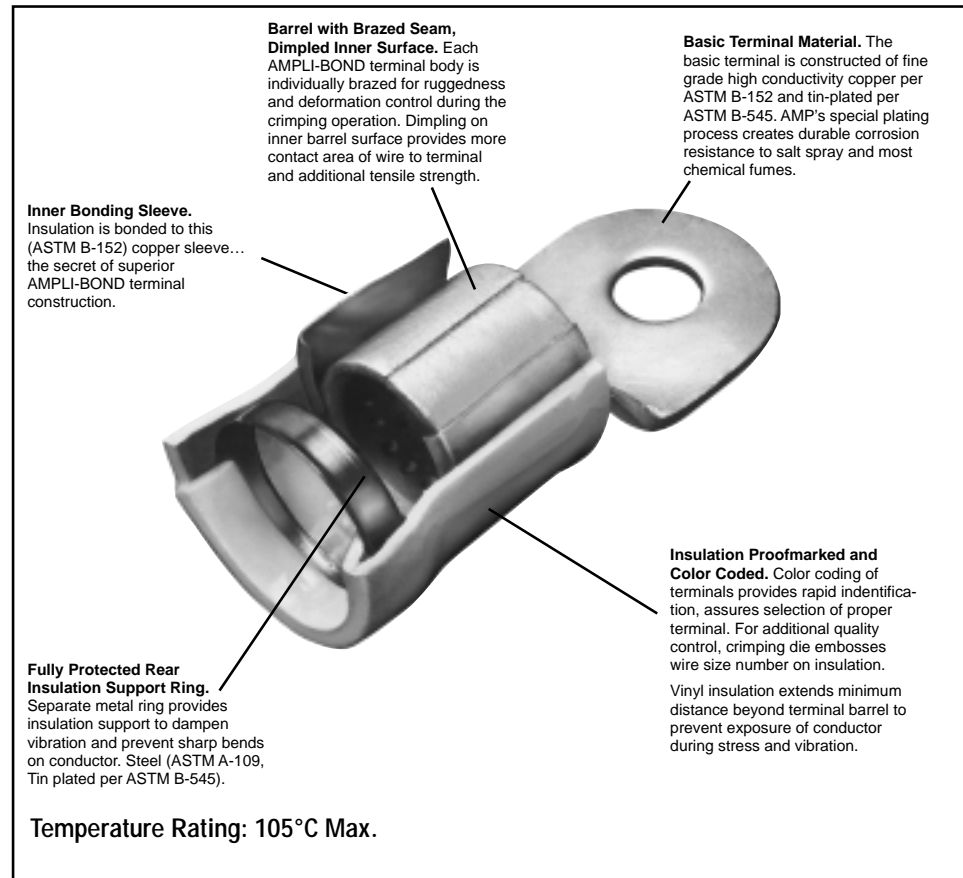
- Designed to accommodate wire gauges 8 AWG through 4/0 AWG
- The first large wire terminal to feature vinyl insulation bonded to the terminal sleeve
- Terminals for wire sizes 8 AWG through 4/0 AWG meet the requirements of MIL-T-7928, Type II, Class 2
- Precision-engineered terminal offering the heavy-duty wire user uniformly high quality connections with permanent insulation support and complete protection against flash over
- Applied in a single effortless operation with the AMP DYNA-CRIMP tool

Why Bonding?

- Terminal insulators must withstand intense crimping pressures necessary for today's high wire-to-terminal contact requirements
- Bonded insulation transmits this pressure evenly to the center of the crimp area
- A positive bond promotes uniform insulation thickness, maintains proper dielectric and tensile values and controls the extrusion of plastic under the crimping dies in the finished connection

The Crimp

- Because both wire and terminal are confined over a greater area during the crimp, a homogeneous mass is achieved
- Crimp is applied gradually to encourage full movement of the wire with minimum extrusion
- Compare this Tyco Electronics method of applying pre-insulated solderless terminals to large gauge wires with the cumbersome mechanical fitting, brazing and manual insulating techniques still used in many plants



Ring Tongue Terminals

Material and Finish

Insulation — Vinyl

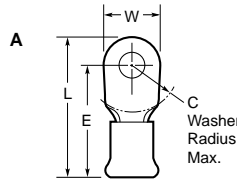
Terminal Body — Copper per
ASTM B-152

Insulation Support Ring — Steel per
ASTM A-109

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

Related Product Data

Application Tooling — page 638



Military Specifications MS25036

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Class	MS25036 Dash Numbers	Part Numbers	
				W	C	E Max.	L Max.					Loose Piece	Tape Mounted
8 13,100-20,800 [6.64-10.5]	.043 1.09	10	A	.431 10.95	.437 11.10	1.344 34.14	1.562 39.67	Red	.298 7.57	2	115	322128	2-322128-2
			1/4 M6	A	.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	Red	.298 7.57	2	116	322049
		5/16 M8	A	.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	Red	.298 7.57	2	117	322003	—
			3/8	A	.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	Red	.298 7.57	2	118	322004
6 20,800-33,100 [10.5-16.8]	.048 1.22	10	A	.468 11.89	.421 10.69	1.490 37.85	1.727 43.87	Blue	.377 9.58	2	119	322153	—
			1/4 M6	A	.500 12.70	.515 13.08	1.599 40.61	1.852 47.04	Blue	.377 9.58	2	120	322051
		5/16 M8	A	.625 15.88	.515 13.08	1.599 40.61	1.914 48.62	Blue	.377 9.58	2	121	322006*	2-322006-3
			3/8	A	.625 15.88	.515 13.08	1.599 40.61	1.914 48.62	Blue	.377 9.58	2	122	322007
4 33,100-52,600 [16.8-26.7]	.051 1.30	1/4 M6	A	.546 13.87	.531 13.49	1.632 41.45	1.908 48.46	Yellow	.436 11.07	2	123	322053	—
			5/16 M8	A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	Yellow	.436 11.07	2	124	322010
		3/8	A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	Yellow	.436 11.07	2	125	322011	2-322011-5
2 52,600-83,700 [26.7-42.4]	.060 1.52	1/4 M6	A	.675 17.15	.578 14.68	1.710 43.43	2.050 52.07	Red	.505 12.83	2	126	322125	—
			3/8	A	.711 18.06	.578 14.68	1.710 43.43	2.068 52.53	Red	.505 12.83	2	127	322055
		1/2 M12	A	.855 21.72	.578 14.68	1.710 43.43	2.140 54.36	Red	.505 12.83	2	128	322016	—
1 ¹ 83,700-119,500 [42.4-60.6]	.073 1.85	1/4 M6	A	.807 20.50	.625 15.88	2.063 52.40	2.469 62.71	Blue	.632 16.05	2	129	322085	—
			3/8	A	.807 20.50	.625 15.88	2.063 52.40	2.469 62.71	Blue	.632 16.05	2	130	322087
		1/2 M12	A	.875 22.23	.625 15.88	2.063 52.40	2.501 63.53	Blue	.632 16.05	2	131	321677	—
1/0 83,700-119,500 [42.4-60.6]	.073 1.85	1/4 M6	A	.807 20.50	.625 15.88	2.063 52.40	2.469 62.71	Blue	.632 16.05	2	132	322085	—
			3/8	A	.807 20.50	.625 15.88	2.063 52.40	2.469 62.71	Blue	.632 16.05	2	133	322087
		1/2 M12	A	.875 22.23	.625 15.88	2.063 52.40	2.501 63.53	Blue	.632 16.05	2	134	321677	—
2/0 119,500-150,500 [60.6-76.3]	.083 2.11	5/16 M8	A	.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	Yellow	.684 17.37	2	135	322089	—
			3/8	A	.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	Yellow	.684 17.37	2	136	322090
		1/2 M12	A	.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	Yellow	.684 17.37	2	137	322092	—
3/0 150,500-190,000 [76.3-96.3]	.094 2.39	3/8	A	1.062 26.97	.625 15.88	2.166 55.02	2.697 68.50	Red	.737 18.72	2	138	322059	—
			1/2 M12	A	1.062 26.97	.625 15.88	2.166 55.02	2.697 68.50	Red	.737 18.7	2	139	322060
4/0 190,000-231,000 [96.3-117]	.105 2.67	3/8	A	1.140 28.96	.625 15.88	2.203 55.96	2.766 70.26	Blue	.799 20.29	2	140	322061	—
			1/2 M12	A	1.062 26.97	.625 15.88	2.166 55.02	2.697 68.50	Blue	.799 20.29	2	141	322062

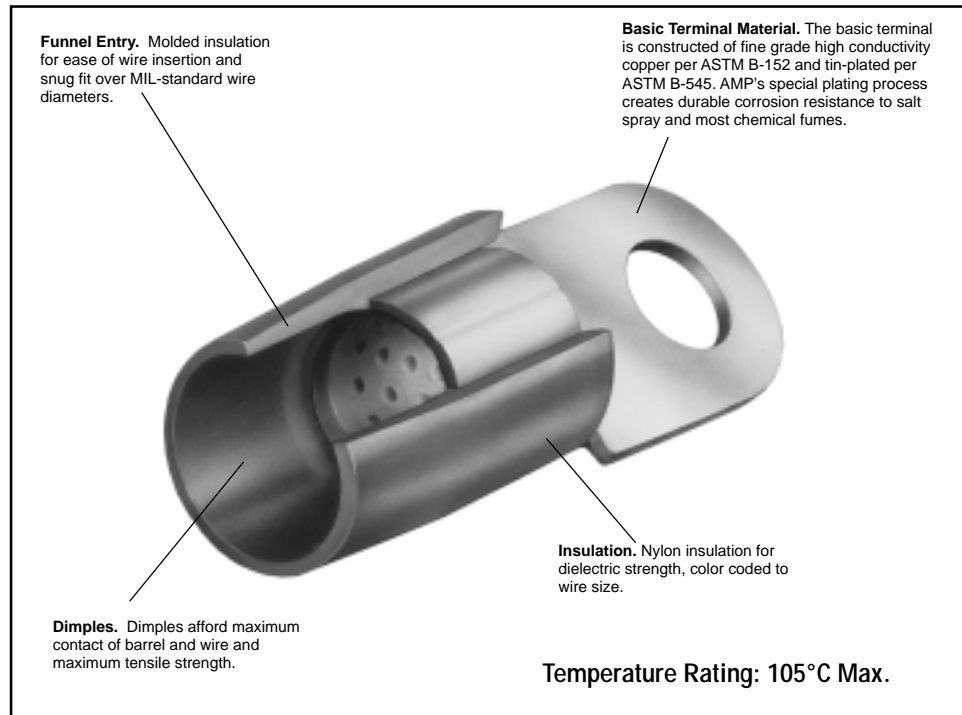
* Available in small packaging quantities.

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

Introduction

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 successfully withstand many vibration, shock and structural stresses, elevated temperatures and other conditions which can adversely affect the circuit requirements in complex air and space flight equipment
- The use of matching AMP tooling 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



Ring Tongue Terminals

Material and Finish

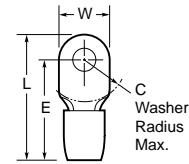
Insulation — Nylon

Terminal Body — Copper per
ASTM B-152

Plating — Tin per ASTM B-545

Related Product Data

Application Tooling — page 638



Military Specifications MS25036

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color	Wire Insulation Diameter Max.	Class	MS25036 Dash Numbers	Part Number Loose Piece
			W	C	E Max.	L Max.					
8 13,100-20,800 [6.64-10.5]	.043 1.09	10	.431 10.95	.437 11.10	1.183 30.05	1.402 35.61	Red	.256 6.50	2	115	324043
		1/4 M6	.478 12.14	.437 11.10	1.183 30.05	1.425 36.20	Red	.256 6.50	2	116	324082
		5/16 M8	.587 14.91	.500 12.70	1.246 31.65	1.542 39.17	Red	.256 6.50	2	117	324044
		3/8	.587 14.91	.500 12.70	1.246 31.65	1.542 39.17	Red	.256 6.50	2	118	324045
6 20,800-33,100 [10.5-16.8]	.048 1.22	10	.468 11.89	.421 10.69	1.338 33.99	1.575 40.01	Blue	.314 7.98	2	119	324046
		1/4 M6	.500 12.70	.515 13.08	1.447 36.75	1.700 43.18	Blue	.314 7.98	2	120	324047
		5/16 M8	.625 15.88	.515 13.08	1.447 36.75	1.762 44.75	Blue	.314 7.98	2	121	324048
		3/8	.625 15.88	.515 13.08	1.447 36.75	1.762 44.75	Blue	.314 7.98	2	122	324049
4 33,100-52,600 [16.8-26.7]	.051 1.30	1/4 M6	.546 13.87	.531 13.49	1.536 39.01	1.812 46.02	Yellow	.382 9.70	2	123	324050
		5/16 M8	.679 17.25	.531 13.49	1.536 39.01	1.878 47.70	Yellow	.382 9.70	2	124	324051
		3/8	.679 17.25	.531 13.49	1.536 39.01	1.878 47.70	Yellow	.382 9.70	2	125	324052*
2 52,600-83,700 [26.7-42.4]	.060 1.52	1/4 M6	.679 17.25	.578 14.68	1.705 43.31	2.045 51.94	Red	.468 11.89	2	126	324053
		3/8	.711 18.06	.578 14.68	1.705 43.31	2.063 52.40	Red	.468 11.89	2	127	324054
		1/2 M12	.855 21.72	.578 14.68	1.705 43.31	2.135 54.23	Red	.468 11.89	2	128	324055
1 ¹ 83,700-119,500 [42.4-60.6]	.073 1.85	1/4 M6	.807 20.50	.625 15.88	2.033 51.64	2.426 61.62	Blue	.580 14.73	2	129	324056
		3/8	.807 20.50	.625 15.88	2.033 51.64	2.426 61.62	Blue	.580 14.73	2	130	324057
1/0 83,700-119,500 [42.4-60.6]	.073 1.85	1/2 M12	.875 22.23	.625 15.88	2.017 51.23	2.454 62.33	Blue	.580 14.73	2	131	324058
		1/4 M6	.807 20.50	.625 15.88	2.033 51.64	2.426 61.62	Blue	.580 14.73	2	132	324113
2/0 119,500-150,500 [60.6-76.3]	.083 2.11	3/8	.807 20.50	.625 15.88	2.033 51.64	2.426 61.62	Blue	.580 14.73	2	133	324057
		1/2 M12	.875 22.23	.625 15.88	2.017 51.23	2.454 62.33	Blue	.580 14.73	2	134	324058
		5/16 M8	.926 23.52	.625 15.88	2.026 51.46	2.416 61.37	Yellow	.610 15.49	2	135	324083
3/0 150,000-190,000 [76.3-96.3]	.094 2.39	3/8	.926 23.52	.625 15.88	2.026 51.46	2.416 61.37	Yellow	.610 15.49	2	136	324084
		1/2 M12	.926 23.52	.625 15.88	2.026 51.46	2.416 61.37	Yellow	.610 15.49	2	137	324085
4/0 190,000-231,000 [96.3-117]	.105 2.67	3/8	1.082 27.48	.625 15.88	2.294 58.27	2.794 70.97	Red	.680 17.27	2	138	324185
		1/2 M12	1.150 29.21	.625 15.88	2.295 58.29	2.858 75.59	Blue	.765 19.43	2	140	324187

* Available in small packaging quantities.

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

7 Terminals and Splices

Application 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 TAPETRONIC No Applicator Required	Tape Dies for 354500-1 AMP-O-LECTRIC Model "G" Applicator 567200-3	Tape Dies for AMPOMATOR CLS IV* 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	Dies for 69710-1 ³				
PIDG Terminals & Splices	30-26	69163—uses 26-22 Terms.	—	—	—	—	—	—	—	—
	26-22	46121 [†]	59275 [†]	314537-1	—	69344	69877	69877	69877	69877
	22-16	47386 [†]	59250 [†] 59824-1 ¹ 58433-3 ²	314270-3	679305-1	47806-2	69872* 59826-1 ¹	69872* 59826-1 ¹	69872* 59826-1 ¹	69872* 59826-1 ¹
	16-14	68343-1 (.250 exp.) 47387	59250 [†] 59824-1 ¹ 58433-3 ²	314269-1	679305-1	47807-1	69873* 59827-1 ¹	69873* 59827-1 ¹	69873* 59827-1 ¹	69873* 59827-1 ¹
	12-10	59239-4 [†]	59824-1 ¹	679300-1	679305-1	47808-6 Std.	69874* 69897	69874* 69897	69874* 69897	69874* 69897
	16-14 HD	59287-2 (.300 exp.)	58433-3 ²	—	—	47808-5 (.300 exp.)	(.300 exp.) 59828-1 ¹	(.300 exp.) 59828-1 ¹	(.300 exp.) 59828-1 ¹	(.300 exp.) 59828-1 ¹

[†]Tooling with adjustable insulation crimp.

*Same die set/configuration as in hand tools.

¹TETRA-CRIMP die configuration.

²PRO-CRIMPER II commercial tool not approved for UL applications.

³69710-1 hand tool.

⁴6-26 Pneumatic Tool Adapter

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

Description	Wire Size	Hand Tools	Tools for Loose Piece Terminations		
			Dies for Crimp Head 69051 ¹ & Hydraulic Hand Tool 59974-1	Dies for Crimp Head 69066 ¹ & 58422-1 ¹	Head for Pneumatic Hand Tool 69015
AMPLI-BOND Terminals	8	69959	48752-1	47236-1 ²	—
	6	—	48753-1	47237-1 ²	68325-1
	4	—	48754-1	47238-1 ²	—
	2	—	48755-1	47239-1 ²	—
	1/0	—	—	48756-1 47378-1 ²	—
	2/0	—	—	48757-1	—
	3/0	—	—	48758-1	—
	4/0	—	—	48759-1	—
	8	—	47820	—	68285-1
	6	—	47821	—	—
TERMINYL Terminals and Splices	4	—	47822	—	—
	2	—	47823	—	—
	1/0	—	—	47824	—
	2/0	—	—	47825	—
	3/0	—	—	47915	—
	4/0	—	—	47918	—
	4 HD	—	—	69463	—

¹Heads for Power Units 69120-1, 69120-2, or 314979-1.

²Large expansion dies.