



AMPLI-BOND

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 protection against flash over
- Applied in a single effort-less operation with the AMP DYNA-CRIMP tool

Why Bonding?

- Terminal insulators need to 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 allows for 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 AMP 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

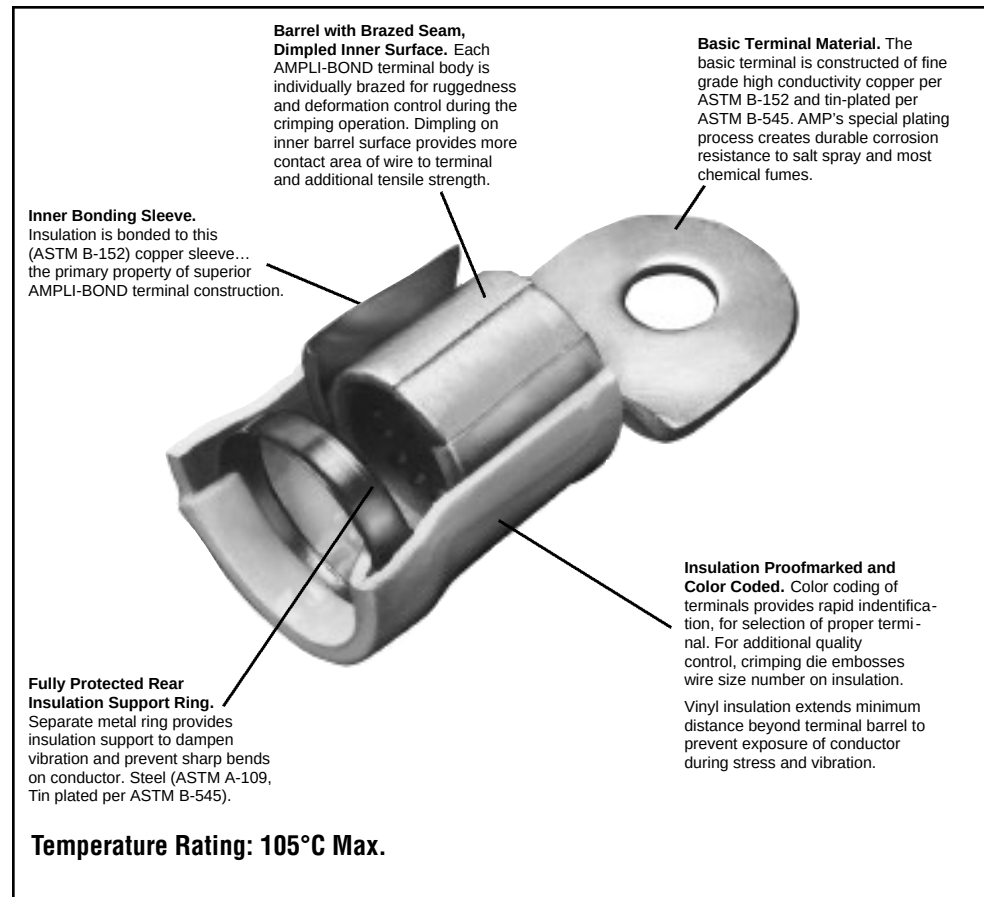


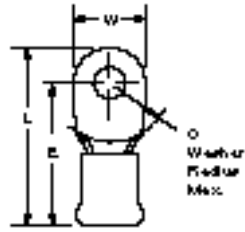
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Terminals

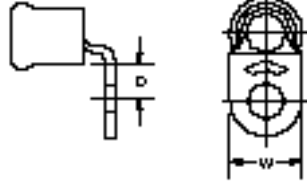
Ring Tongue	54-56
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AMPLI-BOND Terminals meet or exceed the requirements of MIL-T-7928, Type II, Class 2.

Refer to AMP Qualified Products for Military Application, Catalog 73-159 for Military Specification Number to AMP Part Number cross reference.

**AMPLI-BOND** (Continued)**Ring Tongue Terminals**

Style A



Style B

Material**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****Insulation Color Code**—pg. 4**Packaging Quantities**—pg. 4**Performance Specifications**—
pgs. 4 & 5**Application Tooling**—pg. 73

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C	E Max.	L Max.	D Min.			Loose Piece	Tape Mounted
8 13,100-20,800 [6.64-10.5]	.043 1.09	8 M4	A	.375 9.53	.544 13.82	1.359 34.52	1.549 39.34	—	Red	.298 7.57	330600	—
			A	.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	—	Red	.298 7.57	322047	2-322047-2
			B	.375 9.53	—	—	—	.318 8.08	Red	.298 7.57	54575-1	—
		10	A	.375 9.53	.218 5.54	1.125 28.58	1.315 33.40	—	Red	.298 7.57	54739-1	—
				.375 9.53	.437 11.10	1.344 34.14	1.579 40.11	—	Red	.298 7.57	323974	—
				.406 10.31	.218 5.54	1.125 28.58	1.328 33.73	—	Red	.298 7.57	323197	—
				.431 10.95	.437 11.10	1.344 34.14	1.562 39.67	—	Red	.298 7.57	322128	2-322128-2
				.431 10.95	.437 11.10	1.344 34.14	1.562 39.67	—	Red	.377 9.58	322154	—
				.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	—	Red	.298 7.57	322048	—
			B	.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	—	Red	.298 7.57	322002	—
				.431 10.95	—	—	—	.318 8.08	Red	.298 7.57	322880	—
			1/4 M6	.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	—	Red	.298 7.57	322049	2-322049-5
				.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	—	Red	.298 7.57	2-322049-1 ¹	—
				.478 12.14	.437 11.10	1.344 34.14	1.586 40.28	—	Red	.377 9.58	327268	—
				.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	—	Red	.298 7.57	321669	—
			5/16 M8	.587 14.91	—	—	—	.381 9.68	Red	.298 7.57	323869	—
				.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	—	Red	.298 7.57	322003	—
				.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	—	Red	.377 9.58	328525	—
			3/8	.587 14.91	.500 12.70	1.406 35.71	1.702 43.23	—	Red	.298 7.57	322004	—
			1/2 M12	.875 22.23	.500 12.70	1.406 35.71	1.846 46.89	—	Red	.298 7.57	328463	—

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

**AMPLI-BOND** (Continued)**Ring Tongue Terminals**

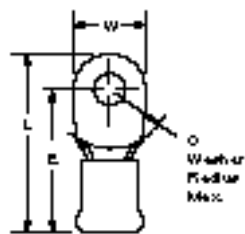
(Continued)

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers	
				W	C	E Max.	L Max.	D Min.			Loose Piece	Tape Mounted
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	322153	—
				.500 12.70	.515 13.08	1.599 40.61	1.852 47.04	—	Blue	.377 9.58	322050	2-322050-1
			B	.500 12.70	—	—	—	.317 8.05	Blue	.377 9.58	322887	—
			A	.500 12.70	.515 13.08	1.599 40.61	1.852 47.04	—	Blue	.377 9.58	322051	2-322051-2
		1/4 M6	A	.500 12.70	.515 13.08	1.599 40.61	1.852 47.04	—	Blue	.436 11.07	322155	—
				.500 12.70	—	—	—	.379 9.63	Blue	.377 9.58	322888	—
			A	.625 15.88	.515 13.08	1.599 40.61	1.914 48.62	—	Blue	.377 9.58	322006*	2-322006-3
			A	.625 15.88	.515 13.08	1.599 40.61	1.914 48.62	—	Blue	.377 9.58	322007	2-322007-2
4 33,100-52,600 [16.8-26.7]	.051 1.30	10	A	.546 13.87	.531 13.49	1.632 41.45	1.908 48.46	—	Yellow	.436 11.07	322052	1-322052-1
				.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	—	Yellow	.436 11.07	322009	—
			A	.546 13.87	.531 13.49	1.632 41.45	1.908 48.46	—	Yellow	.436 11.07	322053	—
				.546 13.87	.531 13.49	1.632 41.45	1.908 48.46	—	Yellow	.505 12.83	322156	—
		1/4 M6	A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	—	Yellow	.436 11.07	321671	—
				.546 13.87	—	—	—	.377 9.58	Yellow	.436 11.07	322894	—
			A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	—	Yellow	.436 11.07	322010	2-322010-4
			B	.679 17.25	—	—	—	.470 11.94	Yellow	.436 11.07	322897	—
		3/8	A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	—	Yellow	.436 11.07	322011	2-322011-5
				.679 17.25	—	—	—	.470 11.94	Yellow	.436 11.07	322898	—
			A	.679 17.25	.531 13.49	1.632 41.45	1.974 50.14	—	Yellow	.436 11.07	328221	—
			B	.679 17.25	—	—	—	.470 11.94	Yellow	.436 11.07	328221	—
2 52,600-83,700 [26.7-42.4]	.060 1.52	10	A	.711 18.06	.578 14.68	1.710 43.43	2.068 52.53	—	Red	.505 12.83	322122	—
				.711 18.06	.578 14.68	1.772 45.01	2.130 54.10	—	Red	.632 16.05	1-322122-0	—
			A	.675 17.15	.578 14.68	1.710 43.43	2.050 52.07	—	Red	.505 12.83	322125	—
				.675 17.15	.578 14.68	1.772 45.01	2.112 53.64	—	Red	.632 16.05	322157	—
		1/4 M6	A	.711 18.06	.578 14.68	1.710 43.43	2.068 52.53	—	Red	.505 12.83	322054	—
				.610 15.49	—	—	—	.343 8.71	Red	.505 12.83	52097	—
			B	.675 17.15	—	—	—	.371 9.42	Red	.505 12.83	322900	—
				.711 18.06	.578 14.68	1.710 43.43	2.068 52.53	—	Red	.505 12.83	322074	—
		5/16 M8	A	.711 18.06	.578 14.68	1.772 45.01	2.130 54.10	—	Red	.632 16.05	326896	—
				.711 18.06	—	—	—	.465 11.81	Red	.505 12.83	322134	—
			B	.711 18.06	—	—	—	.465 11.81	Red	.505 12.83	322134	—
				.711 18.06	—	—	—	.465 11.81	Red	.505 12.83	322134	—

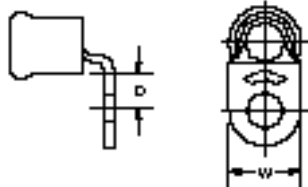
*Available in small packaging quantities.

**AMPLI-BOND** (Continued)**Ring Tongue Terminals**

(Continued)



Style A



Style B

Material

Insulation — Vinyl
Terminal Body — Copper per
 ASTM B-152
Insulation Support Ring — Steel per
 ASTM A-109
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. 73

Wire Size Circular Mills [mm²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers			
				W	C	E Max.	L Max.	D Min.			Loose Piece	Tape Mounted		
2 52,600-83,700 [26.7-42.4]	.060 1.52	3/8	A	.711 18.06	.578 14.68	1.710 43.43	2.068 52.53	—	Red	.505 12.83	322055	—		
				.711 18.06	.578 14.68	1.772 45.01	2.130 54.10	—	Red	.632 16.05	324190	—		
				.855 21.72	.578 14.68	1.710 43.43	2.140 54.36	—	Red	.505 12.83	322014	—		
			B	.711 18.06	—	—	—	.465 11.81	Red	.505 12.83	322902	—		
				1/2 M12	A	.855 21.72	.578 14.68	1.710 43.43	2.140 54.36	—	Red	.505 12.83	322016	—
					1/0 83,700-119,500 [42.4-60.6]	1/4 M6	A	.807 20.50	.625 15.88	2.063 52.40	2.469 62.71	—	Blue	.632 16.05
B	.807 20.50	—	—	—			.381 9.68	Blue	.632 16.05	322907	—			
5/16 M8	A	.807 20.50	.625 15.88	2.063 52.40		2.469 62.71	—	Blue	.632 16.05	322086	—			
		.807 20.50	.625 15.88	2.063 52.40		2.469 62.71	—	Blue	.684 17.37	328526	—			
3/8	A	.807 20.50	.625 15.88	2.063 52.40		2.469 62.71	—	Blue	.632 16.05	322087	—			
		.807 20.50	.625 15.88	2.063 52.40		2.469 62.71	—	Blue	.684 17.37	322173	—			
	B	.875 22.23	.625 15.88	2.063 52.40		2.501 63.53	—	Blue	.632 16.05	321675	—			
		.807 20.50	—	—		—	.475 12.07	Blue	.632 16.05	322908	—			
2/0 119,500-150,500 [60.6-76.3]	.083 2.11	1/2 M12	A	.875 22.23		.625 15.88	2.063 52.40	2.501 63.53	—	Blue	.632 16.05	321677	—	
			5/16 M8	A		.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	—	Yellow	.684 17.37	322089	—
		3/8		A		.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	—	Yellow	.684 17.37	322090	—
			B	.926 23.52		—	—	—	.470 11.94	Yellow	.684 17.37	322915	—	
		3/0 150,000-190,000 [76.3-96.3]	.094 2.39	1/2 M12	A	.926 23.52	.625 15.88	2.084 52.93	2.540 64.52	—	Yellow	.684 17.37	322092	—
					5/16 M8	A	1.020 25.91	.625 15.88	2.166 55.02	2.669 67.79	—	Red	.737 18.72	322093
3/8	A			1.020 25.91		.625 15.88	2.166 55.02	2.669 67.79	—	Red	.737 18.72	322094	—	
	1.062 26.97			.625 15.88	2.166 55.02	2.697 68.50	—	Red	.737 18.72	322059	—			
4/0 190,000-231,000 [96.3-117]	.105 2.67	3/8	A	1.020 25.91	—	—	—	.465 11.81	Red	.737 18.72	322919	—		
				1.062 26.97	.625 15.88	2.166 55.02	2.697 68.50	—	Red	.737 18.72	322060	—		
		1/2 M12	A	1.140 28.96	.625 15.88	2.203 55.96	2.766 70.26	—	Blue	.799 20.29	322061	—		
			A	1.140 28.96	.625 15.88	2.203 55.96	2.766 70.26	—	Blue	.799 20.29	322062	—		



PLASTI-BOND

Product Facts

- Bonded insulation
- Abbreviated copper support sleeve (does not extend beyond end of wire barrel)
- Special insulation colors
- Designed with signal in mind
- Designed not to slip or fall off due to heat cycling or vibration
- Fast accurate product and wire identification
- Low profile
- Meets the requirements of AAR (Association of American Railroads signal manual)
- Accommodates wire gauges 20 AWG through 10 AWG

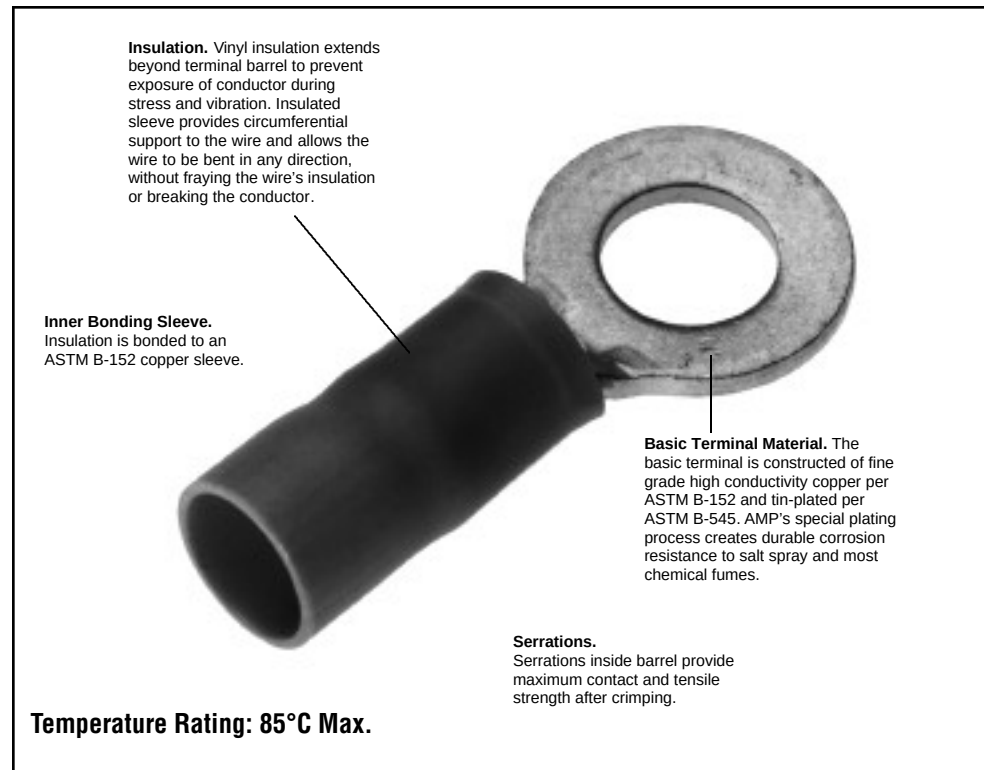
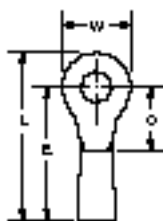


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**PLASTI-BOND** (Continued)**Ring Tongue Terminals****Material****Insulation** — Vinyl**Terminal Body and Metallic****Sleeve** — Copper per ASTM B-152**Plating** — Tin per ASTM B-545**Related Product Data****Insulation Color Code** — pg. 4**Packaging Quantities** — pg. 4**Performance Specifications** —

pgs. 4 & 5

Application Tooling — shown below

Wire Size Circular Mills [mm ²]	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	
20-16HD ¹ 992-2,800 [0.50-1.42]	.042 1.07	14	.469 11.91	.312 7.92	.744 18.90	.983 24.97	Green	.170 4.32		36273
			.469 11.91	.312 7.92	.744 18.90	.983 24.97	Green	.200 5.08		320699
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	14	.468 11.89	.312 7.92	.744 18.90	.981 24.92	Blue	.190 4.83		35626
16-14HD ¹ 2,050-5,180 [1.04-2.62]	.050 1.27	1/4 M6	.500 12.70	.344 8.74	.947 24.05	1.200 30.48	Yellow	.215 5.46		35628
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	1/4 M6	.500 12.70	.344 8.74	.947 24.05	1.200 30.48	Black	.230 5.84		35627
			.500 12.70	.344 8.74	.947 24.05	1.200 30.48	Black	.300 7.62		2-35627-1

¹Heavy duty for extra mechanical strength.**Note:** "C" dimension applies from edge of metal wire barrel to center of stud hole.**Tooling****Tool Part No. 47387**
(20-16 HD, 16-14)**Tool Part No. 59239-4**
(12-10 .250 EXP.)