AMPLI-BOND

Product Facts

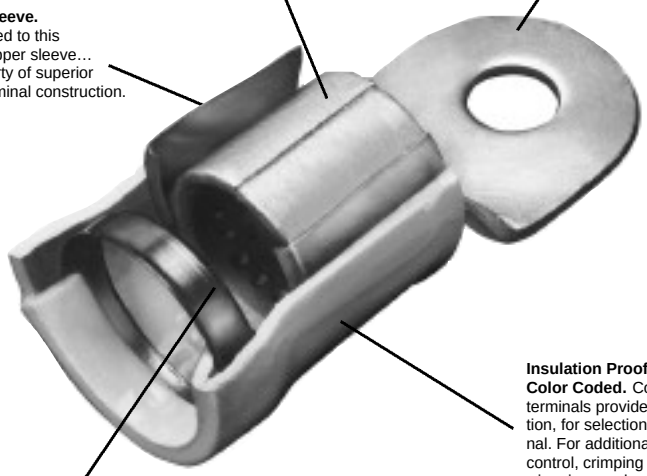
- Designed to accommodate wire gauges 8 AWG through 4/0 AWG
- The first large wire terminal to feature vinyl insulation bonded to the terminal sleeve
- Terminals for wire sizes 8 AWG through 4/0 AWG meet the requirements of MIL-T-7928, Type II, Class 2
- Precision-engineered terminal offering the heavy-duty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



Temperature Rating: 105°C Max.

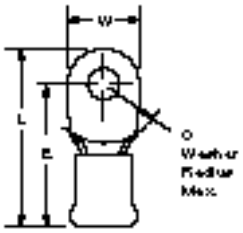
Table of Contents

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

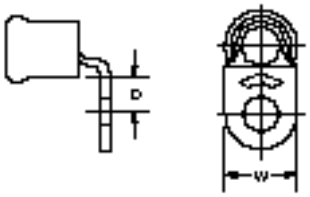
Refer to AMP Qualified Products for Military Application, Catalog 73-159 for Military Specification Number to AMP Part Number cross reference.

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 [mm²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions W	C	E Max.	L Max.	D Min.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers 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	—
				.587 14.91	**.500** 12.70	**1.406** 35.71	**1.702** 43.23	—	Red	**.298** 7.57	322002	—
			B	**.431** 10.95	—	—	—	**.318** 8.08	Red	**.298** 7.57	322880	—
		1/4 M6	A	**.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	—
			B	**.587** 14.91	—	—	—	**.381** 9.68	Red	**.298** 7.57	323869	—
		5/16 M8	A	**.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	A	**.587** 14.91	**.500** 12.70	**1.406** 35.71	**1.702** 43.23	—	Red	**.298** 7.57	322004	—
		1/2 M12	A	**.875** 22.23	**.500** 12.70	**1.406** 35.71	**1.846** 46.89	—	Red	**.298** 7.57	328463	—

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

AMPLI-BOND (Continued)

Ring Tongue Terminals

(Continued)

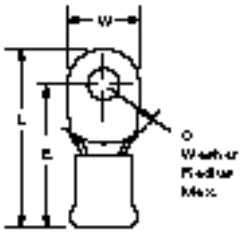
Wire Size Circular Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions W	C	E Max.	L Max.	D Min.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers Loose Piece	Part Numbers Tape Mounted
6 20,800-33,100 [10.5-16.8]	**.048** 1.22	10	A	**.468** 11.89	**.421** 10.69	**1.490** 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	—
		1/4 M6	A	**.500** 12.70	**.515** 13.08	**1.599** 40.61	**1.852** 47.04	—	Blue	**.377** 9.58	322051	2-322051-2
				.500 12.70	**.515** 13.08	**1.599** 40.61	**1.852** 47.04	—	Blue	**.436** 11.07	322155	—
			B	**.500** 12.70	—	—	—	**.379** 9.63	Blue	**.377** 9.58	322888	—
		5/16 M8	A	**.625** 15.88	**.515** 13.08	**1.599** 40.61	**1.914** 48.62	—	Blue	**.377** 9.58	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	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	—
		1/4 M6	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	—
				.679 17.25	**.531** 13.49	**1.632** 41.45	**1.974** 50.14	—	Yellow	**.436** 11.07	321671	—
			B	**.546** 13.87	—	—	—	**.377** 9.58	Yellow	**.436** 11.07	322894	—
		5/16 M8	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
			B	**.679** 17.25	—	—	—	**.470** 11.94	Yellow	**.436** 11.07	322898	—
		1/2 M12	A	**.679** 17.25	**.531** 13.49	**1.632** 41.45	**1.974** 50.14	—	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	—
		1/4 M6	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	—
				.711 18.06	**.578** 14.68	**1.710** 43.43	**2.068** 52.53	—	Red	**.505** 12.83	322054	—
			B	**.610** 15.49	—	—	—	**.343** 8.71	Red	**.505** 12.83	52097	—
				.675 17.15	—	—	—	**.371** 9.42	Red	**.505** 12.83	322900	—
		5/16 M8	A	**.711** 18.06	**.578** 14.68	**1.710** 43.43	**2.068** 52.53	—	Red	**.505** 12.83	322074	—
				.711 18.06	**.578** 14.68	**1.772** 45.01	**2.130** 54.10	—	Red	**.632** 16.05	326896	—
			B	**.711** 18.06	—	—	—	**.465** 11.81	Red	**.505** 12.83	322134	—

*Available in small packaging quantities.

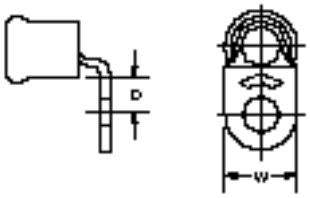
AMPLI-BOND (Continued)

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 Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Style	Dimensions W	C	E Max.	L Max.	D Min.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers Loose Piece	Part Numbers 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]	**.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	322085	—
			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	—
				.875 22.23	**.625** 15.88	**2.063** 52.40	**2.501** 63.53	—	Blue	**.632** 16.05	321675	—
			B	**.807** 20.50	—	—	—	**.475** 12.07	Blue	**.632** 16.05	322908	—
		1/2 M12	A	**.875** 22.23	**.625** 15.88	**2.063** 52.40	**2.501** 63.53	—	Blue	**.632** 16.05	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	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	—
		1/2 M12	A	**.926** 23.52	**.625** 15.88	**2.084** 52.93	**2.540** 64.52	—	Yellow	**.684** 17.37	322092	—
3/0 150,500-190,000 [76.3-96.3]	**.094** 2.39	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	—
			B	**1.020** 25.91	—	—	—	**.465** 11.81	Red	**.737** 18.72	322919	—
		1/2 M12	A	**1.062** 26.97	**.625** 15.88	**2.166** 55.02	**2.697** 68.50	—	Red	**.737** 18.72	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	322061	—
		1/2 M12	A	**1.140** 28.96	**.625** 15.88	**2.203** 55.96	**2.766** 70.26	—	Blue	**.799** 20.29	322062	—

Dimensions are shown for reference purposes only.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

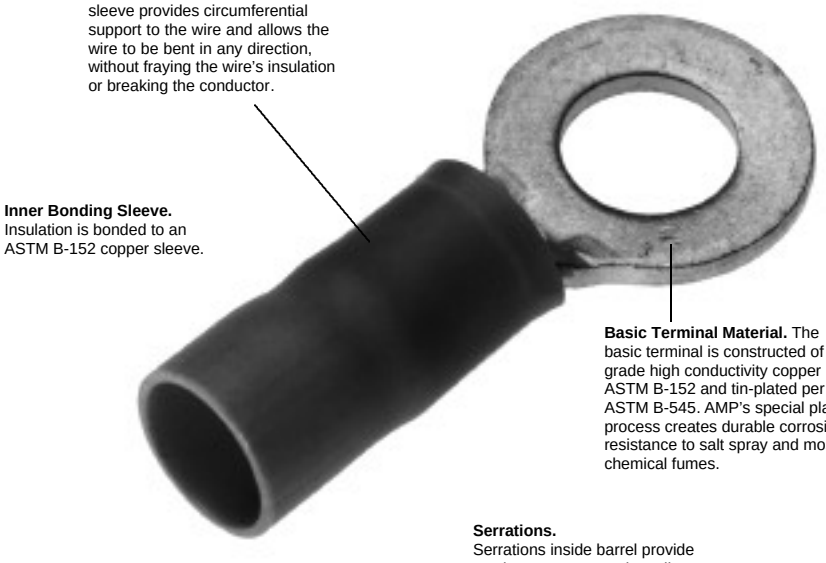
Specifications subject to change.

Technical Support Center
1-800-522-6752
www.amp.com

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

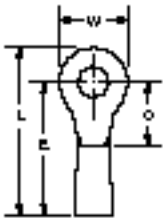


Temperature Rating: 85°C Max.

Table of Contents

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 Mils [mm²]	Tongue Material Thickness Max.	Stud Size	Dimensions W	C Min.	E Max.	L Max.	Terminal Insulation Color	Wire Insulation Diameter Max.	Part Numbers 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

[1]Heavy 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.)