

Introduction

Product Facts

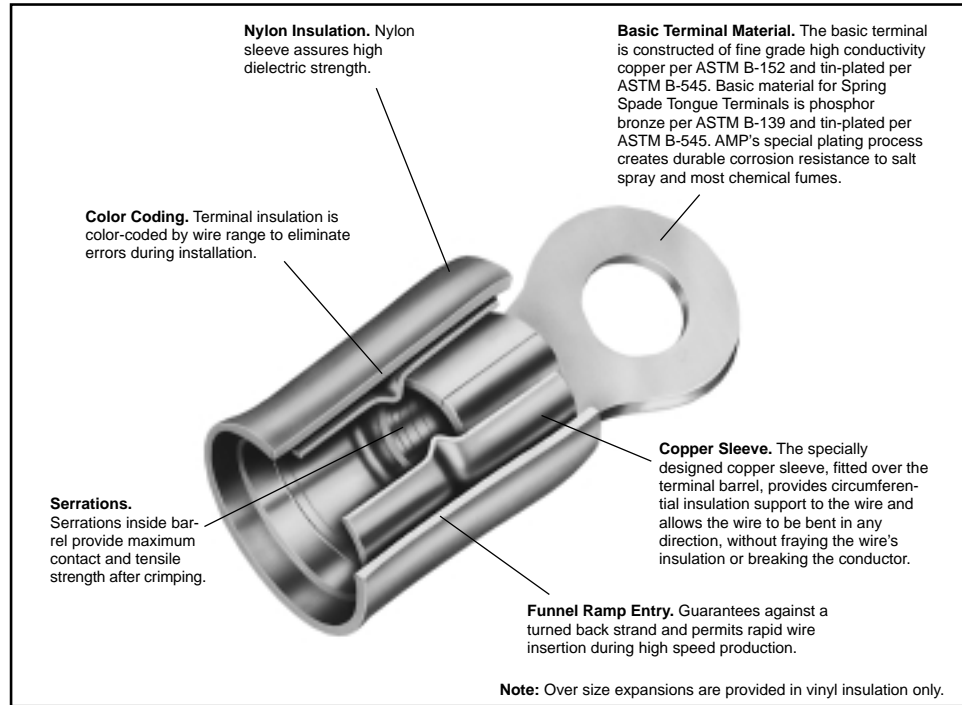
- Pre-insulated terminal designed for complete and uniform reliability in difficult circuit environments
- PIDG Terminals consist of tin plated copper or tin plated phosphor bronze body for spring spades with a copper sleeve and insulation sleeve fitted over terminal barrel
- Design of the tool dies and construction of the terminal ensures 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 precisely alike in appearance and performance
- Terminal and crimping tool are designed as precisely 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

- Crimping pressure can neither overstress nor understress 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



Temperature Rating: 105°C Max.

AMP PIDG Terminals (Use PIDG Tooling)

AMP Wire Range	UL Listed	SP Certified	LR7189 Certified
22-16	22-16 Solid or Stranded		
16-14	16-14 Solid or Stranded	300 V Max., 105°C. Max. ¹	
12-10	12-10 Solid or Stranded		

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

¹UL & CSA—Nylon

AMP PIDG Nylon Butt Window Splice (Use PIDG Tooling)

AMP Wire Range	UL Listed	SP Certified	LR7189 Certified
22-16	22-16 Stranded or Solid		
16-14	16-14 Stranded or Solid	300 V Max., 105°C. Max.	
12-10	12-10 Stranded or Solid		

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

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Terminals and Splices

Ring Tongue Terminals-Nylon

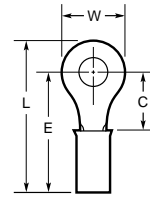
Material and Finish

Insulation — Nylon

Terminal Body and Metallic

Sleeve — Copper per ASTM B-152

Plating — Tin per ASTM B-545



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 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	1 & 2	143	54310-1 [†]	—
		4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow	.105 2.67	1 & 2	144	52189 [†]	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow	.105 2.67	1 & 2	145	53073 [†]	—
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow	.105 2.67	1 & 2	146	54311-1 [†]	—
		10	.312 7.92	.281 7.14	.702 17.83	.868 22.05	Yellow	.105 2.67	$\frac{1 \& 2}{2}$	147	54312-1 [†]	—
										—	54312-2 [†]	
26-22 202-810 [0.10-0.41]	.020 0.51	2 M2	.203 5.16	.211 5.36	.542 13.77	.646 16.41	Yellow	.082 2.08	2	143	323913	—
		4	.203 5.16	.211 5.36	.542 13.77	.646 16.41	Yellow	.082 2.08	2	144	323914*	2-323914-1
		8 M4	.250 6.35	.281 7.14	.612 15.54	.740 18.80	Yellow	.082 2.08	2	146	323916	2-323916-1
		10	.250 6.35	.281 7.14	.612 15.54	.740 18.80	Yellow	.082 2.08	2	147	324075*	2-324075-1
22-16 509-3,260 [0.26-1.65]	.033 0.84	4	.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	$\frac{1 \& 2}{2}$	148	320553	—
											—	2-320553-2
		6 M3.5	.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.140 3.56	$\frac{1 \& 2}{2}$	148	31880*	—
											—	2-31880-1
		8 M4	.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	$\frac{1 \& 2}{2}$	101	36149*	—
											—	2-36149-2
		10	.218 5.54	.156 3.96	.560 14.22	.672 17.07	Red	.125 3.18	$\frac{1 \& 2}{2}$	101	36150*	—
											—	2-36150-1
		1/4 M6	.250 6.35	.250 6.35	.654 16.61	.782 19.86	Red	.125 3.18	$\frac{1 \& 2}{2}$	102	51863*	—
											—	51863-1
		8 M4	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.125 3.18	$\frac{1 \& 2}{2}$	149	320551*	—
											—	2-320551-1
10	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.140 3.56	$\frac{1 \& 2}{2}$	149	31890*	—		
									—	2-31890-2		
5/16 M8	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.125 3.18	$\frac{1 \& 2}{2}$	103	36153*	—		
									—	2-36153-2		
3/8	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Red	.140 3.56	$\frac{1 \& 2}{2}$	103	36154*	—		
									—	2-36154-2		
1/2 M12	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.125 3.18	$\frac{1 \& 2}{2}$	150	320571*	—		
									—	2-320571-2		
5/16 M8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.140 3.56	$\frac{1 \& 2}{2}$	150	31894*	—		
									—	2-31894-2		
22-16 509-3,260 [0.26-1.65]	.033 0.84	3/8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.125 3.18	$\frac{1 \& 2}{2}$	104	320572*	—
											—	2-320572-1
1/2 M12	.033 0.84	3/8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Red	.140 3.56	$\frac{1 \& 2}{2}$	104	31895*	—
											—	2-31895-1
3/8	.033 0.84	3/8	.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Red	.125 3.18	$\frac{1 \& 2}{2}$	105	320573*	—
											—	2-320573-4
1/2 M12	.033 0.84	3/8	.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Red	.140 3.56	$\frac{1 \& 2}{2}$	105	31897*	—
											—	2-31897-2
1/2 M12	.033 0.84	3/8	.713 18.11	.530 13.46	.934 23.72	1.293 32.84	Red	.125 3.18	1 & 2	151	328975*	—

*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.

Ring Tongue Terminals-Nylon (Continued)

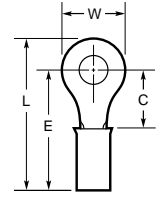
Material and Finish

Insulation — Nylon

Terminal Body and Metallic

Sleeve — Copper per ASTM B-152

Plating — Tin per ASTM B-545



Military Specifications MS25036 (Continued)

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 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	4	.250 6.35	.171 4.34	.575 14.61	.703 17.86	Blue	.150 3.81	1 & 2	152	324159*	—
		6 M3.5	.250 6.35	.171 4.34	.575 14.61	.703 17.86	Blue	.150 3.81	1 & 2 2	106	320561	—
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	1 & 2 2	107	51864*	—
		8 M4	.312 7.92	.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	1 & 2 2	153	51864-1*	—
			.312 7.92	.281 7.14	.685 17.40	.844 21.44	Blue	.150 3.81	1 & 2 2	108	51864-2*	—
		10 M6	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.150 3.81	1 & 2 2	154	320563*	—
			.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.150 3.81	1 & 2 2	109	320575*	—
		5/16 M8	.469 11.91	.437 11.10	.841 21.36	1.078 27.38	Blue	.150 3.81	1 & 2 2	110	320564*	—
			.531 13.49	.546 13.87	.950 24.13	1.218 30.94	Blue	.150 3.81	1 & 2 2	110	—	2-320564-3
		1/2 M12	.713 18.11	.530 13.46	.934 23.72	1.293 32.84	Blue	.150 3.81	1 & 2	155	328976	—
			6 M3.5	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.230 5.84	1 & 2 2	111	320567*
		.375 9.53		.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	1 & 2 2	111	35107	—
		8 M4	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.230 5.84	1 & 2 2	156	320568*	—
			.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	1 & 2 2	156	35108*	—
10	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.230 5.84	1 & 2 2	112	36161*	—		
	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	1 & 2 2	112	—	2-36161-2		
10	.375 9.53	.302 7.67	.893 22.68	1.083 27.51	Yellow	.250 6.35	1 & 2 2	112	35109*	—		
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	1 & 2 2	157	320569*	—		
1/4 M6	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.250 6.35	1 & 2 2	157	—	2-320569-3		
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	1 & 2 2	157	35110*	—		
5/16 M8	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.230 5.84	1 & 2 2	113	320576*	—		
	.531 13.49	.468 11.89	1.054 26.77	1.322 33.58	Yellow	.250 6.35	1 & 2 2	113	—	2-320576-1		
3/8	.593 15.06	.531 13.49	1.115 28.32	1.414 35.92	Yellow	.230 5.84	1 & 2 2	114	35111*	—		
	.593 15.06	.531 13.49	1.115 28.32	1.414 35.92	Yellow	.250 6.35	1 & 2	114	—	2-35111-1		
1/2 M12	.715 18.16	.474 12.04	1.065 27.05	1.414 35.92	Yellow	.230 5.84	1 & 2 2	114	320577*	—		
	.715 18.16	.474 12.04	1.065 27.05	1.414 35.92	Yellow	.250 6.35	1 & 2	158	—	2-320577-3		
					Yellow	.230 5.84	2	158	52077	—		

*Available in small packaging quantities.

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

Ring Tongue Terminals — Insulation Restricting

Material and Finish

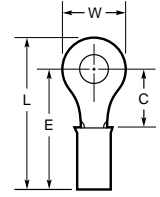
Insulation — Nylon

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



Military Specifications M7928/1

Wire Size Circular Mills [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Max.	Class	M7928/1 Dash Numbers	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	1 & 2	1	53078 [†]	—
		4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow/Black	.026-.055 0.66-1.40	1 & 2	2	53049 [†]	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow/Black	.026-.055 0.66-1.40	1 & 2	3	53050 [†]	—
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow/Black	.026-.055 0.66-1.40	1 & 2	4	53051 [†]	—
		10	.312 7.92	.281 7.14	.702 17.83	.863 21.92	Yellow/Black	.026-.055 0.66-1.40	1 & 2	5	53057 [†]	—
24 475 [0.24]	.029 0.74	2 M2	.203 5.16	.211 5.36	.632 16.05	.739 18.77	Yellow/Blue	.031-.055 0.79-1.40	1 & 2	6	53053 [†]	—
		4	.203 5.16	.211 5.36	.632 16.05	.736 18.69	Yellow/Blue	.031-.055 0.79-1.40	1 & 2	7	53054 [†]	—
		6 M3.5	.250 6.35	.243 6.17	.664 16.87	.792 20.12	Yellow/Blue	.031-.055 0.79-1.40	1 & 2	8	53055 [†]	—
		8 M4	.281 7.14	.250 6.35	.671 17.04	.814 20.68	Yellow/Blue	.031-.055 0.79-1.40	1 & 2	9	53056 [†]	—
		10	.312 7.92	.281 7.14	.702 17.83	.860 21.84	Yellow/Blue	.031-.055 0.79-1.40	1 & 2	10	53057 [†]	—
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	1 & 2	11	52273 [*]	—
		6 M3.5	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Green	.038-.110 0.97-2.79	1 & 2	12	2-36149-3 [*]	—
			.250 6.35	.250 6.35	.716 18.19	.844 21.44	Red/Green	.038-.110 0.97-2.79	$\frac{1 \& 2}{2}$	13	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	$\frac{1 \& 2}{2}$	14	1-320551-2 [*] —	1-320551-5
		1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Green	.038-.110 0.97-2.79	1 & 2	16	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	1 & 2	17	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	1 & 2	18	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	1 & 2	19	2-3208975-1	—
		10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Green	.038-.110 0.97-2.79	$\frac{1 \& 2}{2}$	15	2-36153-3 [*] —	2-36153-6
			4	.218 5.54	.156 3.96	.622 15.80	.734 18.64	Red/Red	.046-.110 1.17-2.79	1 & 2	20	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	1 & 2	21	2-36149-4 [*]	—	
	.250 6.35	.250 6.35	.716 18.19	.844 21.44	Red/Red	.046-.110 1.17-2.79	$\frac{1 \& 2}{2}$	22	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 & 2	23	1-320551-3 [*]	—		
10	.312 7.92	.281 7.14	.747 18.97	.906 23.01	Red/Red	.046-.110 1.17-2.79	$\frac{1 \& 2}{2}$	24	2-36153-4 [*] —	2-36153-8		
	1/4 M6	.469 11.91	.437 11.10	.903 22.94	1.140 28.96	Red/Red	.046-.110 1.17-2.79	1 & 2	25	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	1 & 2	26	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	1 & 2	27	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	1 & 2	28	2-328975-2	—		

*Available in small packaging quantities.

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

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

Ring Tongue Terminals — Insulation Restricting (Continued)

Material and Finish

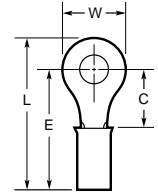
Insulation — Nylon

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



Military Specifications M7928/1 (Continued)

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Max.	Class	M7928/1 Dash Numbers	Part Numbers	
			W	C Min.	E Max.	L Max.					Loose Piece	Tape Mounted
18 1,900 [0.96]	.033 0.84	4	.218	.156	.622	.734	Red/White	.056-.110	1 & 2	29	52273-2*	—
			5.54	3.96	15.80	18.64	1.42-2.79					
		6	.218	.156	.622	.734	Red/White	.056-.110	1 & 2	30	2-36149-5*	—
			5.54	3.96	15.80	18.64	1.42-2.79					
		M3.5	.250	.250	.716	.844	Red/White	.056-.110	1 & 2 2	31	51863-4*	—
			6.35	6.35	18.19	21.44	1.42-2.79	51863-7				
		8 M4	.312	.281	.747	.906	Red/White	.056-.110	1 & 2 2	32	1-320551-4*	—
			7.92	7.14	18.97	23.01	1.42-2.79	1-320551-8				
		10	.312	.281	.747	.906	Red/White	.056-.110	1 & 2 2	33	2-36153-5*	—
			7.92	7.14	18.97	23.01	1.42-2.79	2-36153-9				
		1/4 M6	.469	.437	.903	1.140	Red/White	.056-.110	1 & 2	34	2-320571-5	—
			11.91	11.10	22.94	28.96	1.42-2.79					
5/16 M8	.469	.437	.903	1.140	Red/White	.056-.110	1 & 2	35	2-320572-4	—		
	11.91	11.10	22.94	28.96	1.42-2.79							
3/8	.531	.546	1.012	1.280	Red/White	.056-.110	1 & 2	36	2-320573-3	—		
	13.49	13.87	25.70	32.51	1.42-2.79							
1/2 M12	.713	.530	.996	1.355	Red/White	.056-.110	1 & 2	37	2-328975-3	—		
	18.11	13.46	25.30	34.42	1.42-2.79							
16 2,800 [1.42]	.033 0.84	4	.250	.171	.637	.765	Blue/Blue	.063-.130	1 & 2	38	52274	—
			6.35	4.34	16.18	19.43	1.60-3.30					
		6	.250	.171	.637	.765	Blue/Blue	.063-.130	1 & 2	39	2-320561-3*	—
			6.35	4.34	16.18	19.43	1.60-3.30					
		M3.5	.312	.281	.747	.906	Blue/Blue	.063-.130	1 & 2 2	40	51864-6*	—
			7.92	7.14	18.97	23.01	1.60-3.30	1-51864-2				
		8 M4	.312	.281	.747	.906	Blue/Blue	.063-.130	1 & 2	41	1-51864-0*	—
			7.92	7.14	18.97	23.01	1.60-3.30					
		10	.312	.281	.747	.906	Blue/Blue	.063-.130	1 & 2 2	42	51864-7*	—
			7.92	7.14	18.97	23.01	1.60-3.30	1-51864-3				
		1/4 M6	.469	.437	.903	1.140	Blue/Blue	.063-.130	1 & 2	43	2-320563-3	—
			11.91	11.10	22.94	28.96	1.60-3.30					
5/16 M8	.469	.437	.903	1.140	Blue/Blue	.063-.130	1 & 2	44	2-320575-2	—		
	11.91	11.10	22.94	28.96	1.60-3.30							
3/8	.531	.546	1.012	1.280	Blue/Blue	.063-.130	1 & 2	45	2-320564-1	—		
	13.49	13.87	25.70	32.51	1.60-3.30							
1/2 M12	.713	.530	.996	1.355	Blue/Blue	.063-.130	1 & 2	46	2-328976-1	—		
	18.11	13.46	25.30	34.42	1.60-3.30							
14 4,234 [2.15]	.033 0.84	4	.250	.171	.637	.765	Blue/Green	.078-.130	1 & 2	47	52274-1	—
			6.35	4.34	16.18	19.43	1.98-3.30					
		6	.250	.171	.637	.765	Blue/Green	.078-.130	1 & 2	48	2-320561-4	—
			6.35	4.34	16.18	19.43	1.98-3.30					
		M3.5	.312	.281	.747	.906	Blue/Green	.078-.130	1 & 2	49	51864-8*	—
			7.92	7.14	18.97	23.01	1.98-3.30					
		8 M4	.312	.281	.747	.906	Blue/Green	.078-.130	1 & 2 2	50	1-51864-1*	—
			7.92	7.14	18.97	23.01	1.98-3.30	1-51864-7				
		10	.312	.281	.747	.906	Blue/Green	.078-.130	1 & 2 2	51	51864-9*	—
			7.92	7.14	18.97	23.01	1.98-3.30	1051864-5				
		1/4 M6	.469	.437	.903	1.140	Blue/Green	.078-.130	1 & 2	52	2-320563-4	—
			11.91	11.10	22.94	28.96	1.98-3.30					
5/16 M8	.469	.437	.903	1.140	Blue/Green	.078-.130	1 & 2	53	2-320575-3	—		
	11.91	11.10	22.94	28.96	1.98-3.30							
3/8	.531	.546	1.012	1.280	Blue/Green	.078-.130	1 & 2	54	2-320564-2	—		
	13.49	13.87	25.70	32.51	1.98-3.30							
1/2 M12	.713	.530	.996	1.355	Blue/Green	.078-.130	1 & 2	55	2-328976-2	—		
	18.11	13.46	25.30	34.42	1.98-3.30							

*Available in small packaging quantities.

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

Ring Tongue Terminals — Insulation Restricting (Continued)

Material and Finish

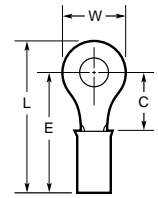
Insulation — Nylon

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



Military Specifications M7928/1 (Continued)

Wire Size Circular Mills [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions				Terminal Insulation Color Solid/Stripe	Wire Insulation Diameter Max.	Class	M7928/1 Dash Numbers	Part Numbers	
			W	C Min.	E Max.	L Max.					Loose Piece	Tape Mounted
12 6,654 [3.37]	.042 1.07	6	.375	.302	.958	1.148	Yellow/Yellow	.095-.200	1 & 2	56	2-36161-5	—
		M3.5	9.53	7.67	24.33	29.16		2.41-5.08				
		8	.375	.302	.958	1.148	Yellow/Yellow	.095-.200	1 & 2	57	2-320568-2*	—
		M4	9.53	7.67	24.33	29.16		2.41-5.08				
		10	.375	.302	.958	1.148	Yellow/Yellow	.095-.200	1 & 2	58	2-36161-3*	—
		M4	9.53	7.67	24.33	29.16		2.41-5.08				
		1/4	.531	.468	1.124	1.392	Yellow/Yellow	.095-.200	1 & 2	59	2-320569-5	—
M6	13.49	11.89	28.55	35.36		2.41-5.08						
10 12,066 [6.11]	.042 1.07	5/16	.531	.468	1.124	1.392	Yellow/Yellow	.095-.200	1 & 2	60	2-320576-2	—
		M8	13.49	11.89	28.55	35.36		2.41-5.08				
		3/8	.593	.531	1.187	1.486	Yellow/Yellow	.095-.200	1 & 2	61	2-320577-1	—
		M8	15.06	13.49	30.15	37.74		2.41-5.08				
		1/2	.715	.474	1.130	1.490	Yellow/Yellow	.095-.200	2	62	52077-1	—
		M12	18.16	12.04	28.70	37.85		2.41-5.08				
		6	.375	.302	.958	1.148	Yellow/Brown	.119-.200	1 & 2	63	2-36161-6	—
10	.042 1.07	M3.5	9.53	7.67	24.33	29.16		3.02-5.08				
		8	.375	.302	.958	1.148	Yellow/Brown	.119-.200	1 & 2	64	2-320568-3*	—
		M4	9.53	7.67	24.33	29.16		3.02-5.08			—	2-36161-8
		10	.375	.302	.958	1.148	Yellow/Brown	.119-.200	1 & 2	65	2-36161-4	—
		M4	9.53	7.67	24.33	29.16		3.02-5.08			—	—
		1/4	.531	.468	1.124	1.392	Yellow/Brown	.119-.200	1 & 2	66	2-320569-6	—
		M6	13.49	11.89	28.55	35.36		3.02-5.08			—	2-320569-8
5/16	.531	.468	1.124	1.392	Yellow/Brown	.119-.200	1 & 2	67	2-320576-3	—		
M8	13.49	11.89	28.55	35.36		3.02-5.08						
3/8	.593	.531	1.187	1.486	Yellow/Brown	.119-.200	1 & 2	68	2-320577-2	—		
M8	15.06	13.49	30.15	37.74		3.02-5.08						
1/2	.715	.474	1.130	1.490	Yellow/Brown	.119-.200	2	69	52077-2	—		
M12	18.16	12.04	28.70	37.85		3.02-5.08						

*Available in small packaging quantities.

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

Rectangular Tongue Terminals

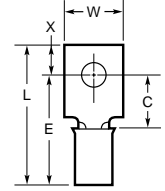
Material and Finish

Insulation — Nylon

Terminal Body and Metallic

Sleeve — Copper per ASTM B-152
except where noted.

Plating — Tin per ASTM B-545



Military Specifications MS17143

Wire Size Circular Mils [mm ²]	Tongue Material Thickness Max.	Stud Size	Dimensions					Terminal Insulation Color	Wire Insulation Diameter Max.	Class	M17143 Dash Numbers	Part Numbers	
			W	C Min.	E Max.	L Max.	X					Loose Piece	Tape Mounted
22-16 500 [0.26-1.65]	.033 0.84	4	.237	.237	.643	.796	.143	Red	.140	1 & 2	19	2-327968-1	—
			6.02	6.02	16.33	20.22	3.63						
		5 M3	.237	.404	.810	1.015	.195	Red	.140	1 & 2	16	327962	—
			6.02	10.26	20.57	25.78	4.95						
		6 M3.5	.237	.404	.810	1.015	.195	Red	.140	1 & 2	13	2-327956-1	—
			6.02	10.26	20.57	25.78	4.95						
		8 M4	.302	.465	.872	1.109	.227	Red	.140	1 & 2	4	2-327938-1	—
			7.67	11.81	22.15	28.17	5.77						
		8 M4	.302	.465	.872	1.109	.227	Red	.140	1 & 2	7	327944*	—
			7.67	11.81	22.15	28.17	5.77						
		8 M4	.390	.621	1.039	1.359	.310	Red	.140	1 & 2	1	327932	—
			9.91	15.77	26.39	34.52	7.87						
16-14 2,050-5,180 [1.04-2.62]	.033 0.84	4	.237	.237	.643	.796	.143	Blue	.150	1 & 2	20	2-327970-4	—
			6.02	6.02	16.33	20.22	3.63						
		5 M3	.237	.404	.810	1.015	.195	Blue	.150	1 & 2	17	2-327964-4	—
			6.02	10.26	20.57	25.78	4.95						
		5 M3	.277	.277	.702	.855	.143	Blue	.150	1 & 2	11	2-327952-2	—
			7.04	7.04	17.83	21.72	3.63						
		6 M3.5	.237	.404	.810	1.015	.195	Blue	.150	1 & 2	14	2-327958-4	—
			6.02	10.26	20.57	25.78	4.95						
		6 M3.5	.302	.465	.872	1.109	.227	Blue	.150	1 & 2	5	2-327940-4	—
			7.67	11.81	22.15	28.17	5.77						
		8 M4	.302	.465	.872	1.109	.227	Blue	.150	1 & 2	8	2-327946-4	—
			7.67	11.81	22.15	28.17	5.77						
8 M4	.390	.621	1.039	1.359	.310	Blue	.150	1 & 2	2	2-327934-2	—		
	9.91	15.77	26.39	34.52	7.87								
12-10 5,180-13,100 [2.62-6.64]	.042 1.07	4	.237	.237	.831	.984	.143	Yellow	.230	1 & 2	21	327972	—
			6.02	6.02	21.11	24.99	3.63						
		4	.237	.404	.998	1.203	.195	Yellow	.230	1 & 2	18	327966	—
			6.02	10.26	25.35	30.56	4.95						
		5 M3	.277	.277	.889	1.042	.143	Yellow	.230	1 & 2	12	327954	—
			7.04	7.04	22.58	26.47	3.63						
		5 M3	.237	.404	.998	1.203	.195	Yellow	.230	1 & 2	15	2-327960-1	—
			6.02	10.26	25.35	30.56	4.95						
		6 M3.5	.302	.465	1.044	1.281	.227	Yellow	.230	1 & 2	6	327942	—
			7.67	11.81	26.52	32.54	5.77						
		6 M3.5	.302	.465	1.044	1.281	.227	Yellow	.230	1 & 2	9	327948	—
			7.67	11.81	26.52	32.54	5.77						
8 M4	.390	.621	1.211	1.531	.310	Yellow	.230	1 & 2	3	327936	—		
	9.91	15.77	30.76	38.89	7.87								

*Available in small packaging quantities.

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

Butt Splices

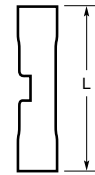
Material and Finish

Insulation Sleeve —
Standard, Step Down Assembly
and Nylon

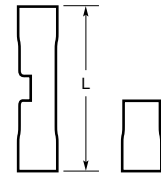
Radiation Resistant —
Polyvinylidene Fluoride (PVF2)

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

Plating — Tin per ASTM B-545



Standard and
Radiation
Resistant



Step Down
Assembly¹

Military Specifications M7928/5

Wire Size Circular Mils ¹ [mm ²]	Style	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Class	M7928/5 Dash Numbers	Part Numbers	
							Loose Piece	Tape Mounted
26-24 ² 238-475 [0.12-0.24]	Standard	.890 22.61	Yellow	.082 2.08	1 & 2	1	323994	—
24-20 320-1,290 [0.16-0.65]		1.035 26.29	Natural	.100 2.54	$\frac{1 \& 2}{2}$	2	323975 —	— 2-323975-3
22-16 ³ 509-3,260 [0.26-1.65]		1.265 32.13	Red	.125 3.18	$\frac{1 \& 2}{2}$	3	320559* —	— 2-320559-4
16-14 2,050-5,180 [1.04-2.62]		1.265 32.13	Blue	.150 3.81	$\frac{1 \& 2}{2}$	4	320562* —	— 2-320562-3
12-10 5,180-13,100 [2.62-6.64]		1.656 42.06	Yellow	.220 5.59	1 & 2	5	320570*	—

*Available in small packaging quantities.

¹When 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.

²26-24 range in accordance with MIL-T-7928.

³22-16 splices are 22-18 range in accordance with MIL-T-7928.

Military Specifications M7928/6

Wire Size Circular Mils ¹ [mm ²]	Style	Dimension L Max.	Splice Insulation Color	Wire Insulation Diameter Max.	Class	M7928/6 Dash Numbers	Part Numbers	
							Loose Piece	Tape Mounted
26-24 ² 238-475 [0.12-0.24]	Radiation Resistant	.890 22.61	Natural w/ Yellow Stripes	.082 2.08	1 & 2	1	53546-1	—
24-20 320-1,290 [0.16-0.65]		1.035 26.29	Natural w/ White Stripes	.100 2.54	$\frac{1 \& 2}{2}$	2	53547-1 —	— 53547-2
22-16 ³ 509-3,260 [0.26-1.65]		1.265 32.13	Natural w/ Red Stripes	.125 3.18	$\frac{1 \& 2}{2}$	3	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	1 & 2	4	53549-1*	—

*Available in small packaging quantities.

¹When 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.

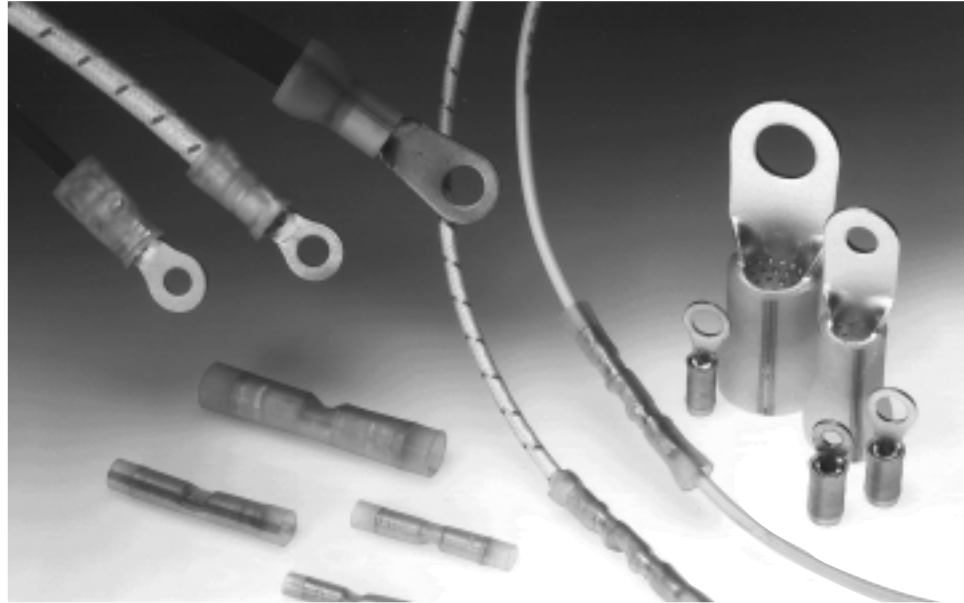
²26-24 range in accordance with MIL-T-7928.

³22-16 splices are 22-18 range in accordance with MIL-T-7928.

Introduction

Product Facts

- Select items have MIL-T-7928 approval under M7928/4 and /6
- Insulation is polyvinylidene fluoride (PVF₂) for high radiation resistance (to 200 megarads)
- Withstands 4 days of steam/chemical spray washdown which simulates LOCA (loss of coolant accident) conditions
- Temperature range of -65°C to +150°C
- Uses AMP standard PIDG and PLASTI-GRIP Terminal tooling
- Color coded for easy wire and tool match
- Covers wide range of wire sizes — AWG 26-2/0 [0.12-70 mm²]
- Tin-plated per MIL-T-10727
- Butt splice for wire sizes — AWG 26-10 [0.12-6 mm²]



The line of AMP Radiation Resistant/150°C Pre-Insulated Terminals and Splices includes terminals and splices of the well-known PIDG terminal designs. Radiation Resistant Terminals are made of fine grade, high conductivity copper with bright tin-plating and feature polyvinylidene fluoride (PVF₂) insulation for high resistance to radiation and solvents. PIDG terminals meet the performance requirements of MIL-T-7928. They are also tested by Tyco Electronics and an independent test facility and have fulfilled all requirements including radiation testing to 200 megarads, operating temperature range from 265°C to 1150°C and resistance to steam and various chemical solvents to simulate LOCA (loss of coolant accident) conditions.

These terminals and splices feature the outstanding qualities of standard AMP

terminals such as tapered entry ramps to help better eliminate bent wire strands and insulation support for stronger, more reliable connections. Serrated or dimpled wire barrels provide maximum contact and tensile strength after crimping, and color coded insulation with wire size stamped on the terminal tongue identifies the product and assists in proper terminal-wire match.

AMP Radiation Resistant/150°C Terminals are designed and engineered to successfully withstand extreme vibration, shock and structural stresses, and other conditions which can adversely affect the critical circuit requirements in complex equipment.

The matching AMP tooling precisely crimps all terminations. This uniformity increases reliability and also serves as a built-in quality control factor.

Technical Documents

Instruction Sheets —

- 408-1559 DAHT's for 26-10 AWG connectors
- 408-1724 Crimping dies for 8-2/0 AWG connectors

7

Terminals and Splices

PIDG Terminal Style

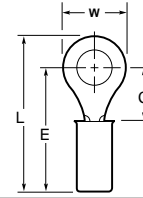
Ring Tongue Terminals

Material and Finish

Terminal Body — Copper per QQ-C-576 with tin plating per MIL-T-10727 or gold plating per MIL-G-45204 over nickel per QQ-N-290

Insulation Support Sleeve — Copper per QQ-C-576 with tin plating per MIL-T-10727

Insulation Sleeve — PVF₂, natural color



Military Specifications M7928/4

Wire Range		Tongue Thickness Max.	Wire Insulation Diameter Max.	Stripe Color Code	Stud Size	Dimensions				Class	M7928/4 Dash Numbers	Part Numbers	
AWG	CMA					C Min.	W	E Max.	L Max.			Tin Plate Loose	Tape Mounted
26-24	202-509	.029 0.74	.082 2.09	Yellow	2	.211	.203	.632	.736	1 & 2	143	53400-1	—
					M2	5.36	5.16	16.05	18.69				
					4	.211	.203	.632	.736	1 & 2	144	53401-1	—
					M3.5	5.36	5.16	16.05	18.69				
					6	.243	.250	.664	.792	1 & 2	145	53402-1	—
M3.5	6.17	6.35	16.87	20.12									
8	.250	.281	.671	.814	1 & 2	146	53403-1	—					
M4	6.35	7.13	17.05	20.68									
10	.281	.312	.702	.861	1 & 2	147	53404-1	—					
22-16	509-3,250	.033 0.84	.125 3.18	Red	4	.156	.218	.560	.672	1 & 2	148	53405-1	—
					M3.5	3.96	5.54	14.23	17.07				
					6	.156	.218	.560	.672	1 & 2	101	53406-1	—
					M3.5	3.96	5.54	14.23	17.07				
					6	.250	.250	.654	.782	1 & 2	102	53407-1	—
					M3.5	6.35	6.35	16.62	19.87				
					8	.281	.312	.685	.844	1 & 2	149	53408-1	—
					M4	7.13	7.91	17.4	21.44				
					10	.281	.312	.685	.844	1 & 2	103	53409-1	—
					M4	7.13	7.92	17.4	21.44				
					1/4	.437	.469	.841	1.078	1 & 2	150	53410-1	—
					M6	11.10	11.91	21.36	27.38				
					5/16	.437	.469	.841	1.078	1 & 2	104	53411-1	—
M8	11.10	11.91	21.36	27.38									
3/8	.546	.531	.950	1.218	1 & 2	105	53412-1	—					
M8	13.87	13.49	24.13	30.94									
1/2	.530	.713	.934	1.293	1 & 2	151	53413-1	—					
M12	13.46	18.11	23.72	32.84									
16-14	2,050-5,180	.033 0.84	.150 3.81	Blue	4	.171	.250	.575	.703	1 & 2	152	53414-1	—
					M3.5	4.34	6.35	14.61	17.86				
					6	.171	.250	.575	.703	1 & 2	106	53415-1	—
					M3.5	4.34	6.35	14.61	17.86				
					8	.281	.312	.685	.844	1 & 2	107	53416-1	—
					M4	7.13	7.92	17.4	21.44				
					10	.281	.312	.685	.844	1 & 2	108	53418-1	—
					M4	7.13	7.92	17.4	21.44				
					1/4	.437	.469	.841	1.078	1 & 2	154	53419-1	—
					M6	11.09	11.91	21.37	27.39				
					5/16	.437	.469	.841	1.078	1 & 2	109	53420-1	—
					M8	11.09	11.91	21.37	27.39				
					3/8	.546	.531	.950	1.218	1 & 2	110	53421-1	—
M8	13.87	13.49	24.13	30.94									
1/2	.530	.713	.934	1.293	1 & 2	155	53422-1	—					
M12	13.46	18.11	23.72	32.84									
12-10	5,180-13,100	.042 1.07	.230 5.84	Yellow	6	.302	.375	.893	1.083	1 & 2	111	53423-1*	—
					M3.5	7.67	9.53	22.69	27.51				
					8	.302	.375	.893	1.083	1 & 2	156	53424-1*	—
					M4	7.67	9.53	22.69	27.51				
					10	.302	.375	.893	1.083	1 & 2	112	53425-1*	—
					M4	7.67	9.53	22.69	27.51				
					1/4	.468	.531	1.054	1.322	1 & 2	157	53426-1*	—
					M6	11.88	13.48	26.78	33.58				
					5/16	.468	.531	1.054	1.322	1 & 2	113	53427-1*	—
					M8	11.88	13.48	26.78	33.58				
					3/8	.531	.593	1.115	1.414	1 & 2	114	53428-1	—
					M8	13.48	15.06	28.32	35.92				
					1/2	.474	.715	1.054	1.414	2	158	53429-1	—
M12	12.04	18.16	26.78	35.92									

*Brazed body

Application Tooling



Long Handle Tool



T-HEAD Tool



Heavy Head Tool

Wire Size Range		Hand Tools		Pneumatic Tools		
AWG	mm ²	Style	Part Number	Heads for 6-26 Single Wire Range	Heads for 6-26 Multi-Wire Range	Dies for 69710-1 ¹ 217200-1 ²
26-24 & 22-16	0.1-0.2 & 0.26-1.65	Long Handle T-HEAD Tool	47386 59250 59300	314270-3	679305-1	47806-2
22-16	0.26-1.65	Long Handle	69151-1**	—	—	—
16-14	1.04-2.62	Long Handle T-HEAD Tool	69152-1** 47387 59250	314269-1	679305-1	47807-1
12-10	2.62-6.64	Heavy Head	59239-4 69150-1**	679300-1	679305-1	47808-6

**Maximum tongue width of terminals for use with these dies is .469 [11.91] when used in tool 46110-2.

Flat tongues only.

**For wires with thin wall insulation.

¹69710-1 hand tool

²6-26 Pneumatic Tool Adapter