FEDERAL SUPPLY CLASS
5940

AS7928/2

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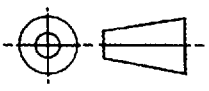

ISSUED 1999-04

PREPARED BY SAE SUBCOMMITTEE AE-8C2

PROCUREMENT SPECIFICATION: NONE

SAE The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

AEROSPACE STANDARD

TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, FOR THIN WALL WIRE, TYPE II, CLASS 1 FOR 150°C TOTAL CONDUCTOR TEMPERATURE

AS7928/2
SHEET 1 OF 5

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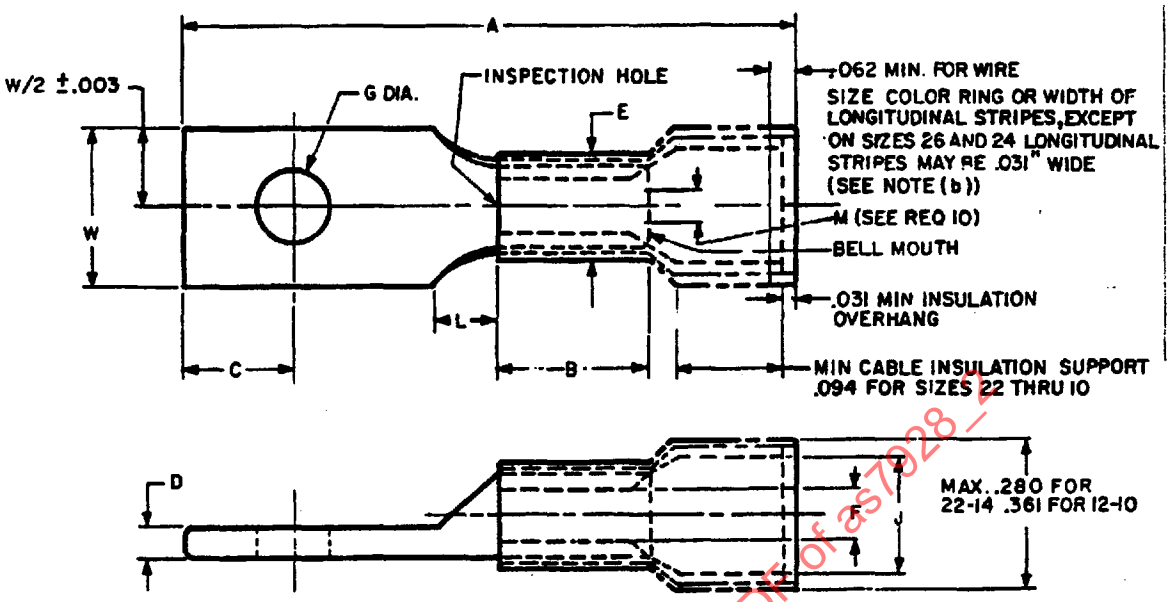
THE COMPLETE REQUIREMENTS FOR ACQUIRING THE TERMINAL DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE ISSUE IN EFFECT OF SPECIFICATION MIL-T-7928.



NOTES:

(a) DIMENSIONS IN INCHES.

(b) THE COLOR RING MUST COVER A MINIMUM OF 315° OF THE CIRCUMFERENCE. IN LIEU OF THE WIRE SIZE COLOR RING, 3 OR MORE LONGITUDINAL STRIPES EQUALLY SPACED ON THE INSULATION PORTION OF THE TERMINAL MAY BE USED. THE STRIPES MUST EXTEND TO WITHIN 1/16" OF THE ENDS OF THE INSULATION AND MUST NOT OBLITERATE THE BASIC SLEEVE COLOR.

REQUIREMENTS:

1. MATERIALS: SEE ACQUISITION SPECIFICATION.
2. FINISH: SEE ACQUISITION SPECIFICATION.
3. REMOVE ALL BURRS AND SHARP EDGES.
4. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN.
5. INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE-PIECE CONSTRUCTION.
6. WIRE INSERTION SHALL BE FACILITATED BY BELL MOUTH.
7. AVERAGE DIAMETER OF "E" AND "F" MUST BE WITHIN SPECIFICATION DIMENSIONS.
8. QUALIFICATION: FOR QUALIFICATION TESTING ONLY. TERMINALS SHALL BE TESTED WITH ANYONE OF THE FOLLOWING WIRES - MIL-W-22759/9 OR 11 OR MIL-W-81381/1, 3 OR 7 AND TOOLING AS FOLLOWS: MIL-C-22520/5-01 TOOLING WITH MIL-C-22520/5-100 OR 105 DIES INSTALLED FOR SIZES 22 THRU 14 TERMINALS AND MIL-C-22520/5-100 OR 104 DIES INSTALLED FOR SIZES 12 THRU 10 TERMINALS; OR MIL-C-22520/10-01 TOOLING WITH MIL-C-22520/10-101 DIES INSTALLED FOR SIZES 22 THRU 14 TERMINALS AND MIL-C-22520/10-100 DIES INSTALLED FOR SIZES 12 THRU 10 TERMINALS. EXISTING MS90413 AND MS3316 TOOLS IN THE FIELD MAY BE USED UNTIL WORN OUT.

9. COLORS: WIRE SIZE COLOR SHALL BE IN ACCORDANCE WITH EIA STANDARD RS-359. THERE SHALL BE A DISTINCT CONTRAST BETWEEN THE INSULATION SLEEVE COLOR AND THE WIRE SIZE COLOR.

10. WIRE INSULATION STOP. DESIGN OPTIONAL.

11. PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE LETTER "M", SPECIFICATION SHEET NUMBER, AND DASH NUMBER.

    EXAMPLE OF PART NUMBER:

    M7928/2-6 TERMINAL FOR SIZE 22 WIRE WITH A NO. 8 STUD HOLE.

12. WIRE INSULATION: THIS LUG DESIGN WILL NOT STOP INSULATION WITH A WALL THICKNESS OF LESS THAN .005 INCH.

TABLE I

DASH NO.	WIRE SIZE	STUD SIZE	A MAX.	B MAX.	C ±.010	D	E DIA	F DIA	G DIA. MAX.	G DIA. MIN.	J MIN. DIA	L MAX.	W	N ±.005	INSUL. SLEEVE COLOR	WIRE SIZE COLOR	TONGUE SHAPE REF ONLY	NAVY TERMINAL AND WIRE SIZE (REF ONLY)
1	22	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .034	.137	.116	.090	.125	.039 .034	.237	RED	GREEN	LR6P-1	1-2
2		4 (.112)	1.061		.195							.156					LR5P-1	
3		5 (.125)	.905		.143				.137	.129		.125		.277			LR3P-1	
4		6 (.138)	1.061		.195				.152	.142		.156		.237			LR6P-1	
5		6 (.138)	1.155		.227							.250		.302			LR1P-1	
6		8 (.164)							.178	.168							LR2P-1	
7		8 (.164)	1.405		.310							.281		.390			LR0P-1	
8	20	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .042	.122	.116	.090	.125	.058 .042	.237	RED	RED	LR6P-1	1-2
9		4 (.112)	1.061		.195							.156					LR5P-1	
10		5 (.125)	.905		.143				.137	.129		.125		.277			LR3P-1	
11		6 (.138)	1.061		.195				.152	.142		.156		.237			LR6P-1	
12		6 (.138)	1.155		.227							.250		.302			LR1P-1	
13		8 (.164)							.178	.168							LR2P-1	
14		8 (.164)	1.405		.310							.281		.390			LR0P-1	
15	18	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .052	.122	.116	.100	.125	.056 .052	.237	RED	WHITE	LR6P-1	1-2
16		4 (.112)	1.061		.195							.156					LR5P-1	
17		5 (.125)	.905		.143				.137	.129		.125		.277			LR3P-1	
18		6 (.138)	1.061		.195				.152	.142		.156		.237			LR6P-1	
19		6 (.138)	1.155		.227							.250		.302			LR1P-1	
20		8 (.164)							.178	.168							LR2P-1	
21		8 (.164)	1.405		.310							.281		.390			LR0P-1	
22	16	4 (.112)	.842	.156	.143	.037 .029	.240 .210	.090 .059	.122	.116	.110	.125	.043 .059	.237	BLUE	BLUE	LR6P-2	2 1/2-4
23		4 (.112)	1.061		.195							.156					LR5P-2	
24		5 (.125)	.905		.143				.137	.129		.125		.277			LR3P-2	
25		6 (.138)	1.061		.195				.152	.142		.156		.237			LR6P-2	
26		6 (.138)	1.155		.227							.250		.302			LR1P-2	
27		8 (.164)							.178	.168							LR2P-2	
28		8 (.164)	1.405		.310							.281		.390			LR0P-2	
29	14	4 (.112)	.842	.156	.143	.037 .029	.240 .210	.090 .074	.122	.116	.130	.125	.078 .074	.237	BLUE	GREEN	LR6P-2	2 1/2-4
30		4 (.112)	1.061		.195							.156					LR5P-2	
31		5 (.125)	.905		.143				.137	.129		.125		.277			LR3P-2	
32		6 (.138)	1.061		.195				.152	.142		.156		.237			LR6P-2	
33		6 (.138)	1.155		.227							.250		.302			LR1P-2	
34		8 (.164)							.178	.168							LR2P-2	
35		8 (.164)	1.405		.310							.281		.390			LR0P-2	
36	12	4 (.112)	1.062	.234	.143	.046 .035	.300 .275	.135 .091	.122	.116	.150	.125	.095 .091	.237	YELLOW	YELLOW	LR6P-3	6-9
37		4 (.112)	1.281		.195							.156					LR5P-3	
38		5 (.125)	1.124		.143				.137	.129		.125		.277			LR3P-3	
39		6 (.138)	1.281		.195				.152	.142		.156		.237			LR6P-3	
40		6 (.138)	1.359		.227							.250		.302			LR1P-3	
41		8 (.164)							.178	.168							LR2P-3	
42		8 (.164)	1.609		.310							.281		.390			LR0P-3	
43	10	4 (.112)	1.062	.234	.143	.046 .037	.300 .275	.135 .115	.122	.116	.180	.125	.118 .115	.237	YELLOW	BROWN	LR6P-3	6-9
44		4 (.112)	1.281		.195							.156					LR5P-3	
45		5 (.125)	1.124		.143				.137	.129		.125		.277			LR3P-3	
46		6 (.138)	1.281		.195				.152	.142		.156		.237			LR6P-3	
47		6 (.138)	1.359		.227							.250		.302			LR1P-3	
48		8 (.164)							.178	.168							LR2P-3	
49		8 (.164)	1.609		.310							.281		.390			LR0P-3	