

FEDERAL SUPPLY CLASS
5940

AS7928/1

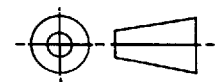
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THIRD ANGLE PROJECTION



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 TERMINAL, LUG, CRIMP STYLE, COPPER, INSULATED,
RING TONGUE, FOR THIN WALL WIRE, TYPE II CLASS 1
FOR 150°C TOTAL CONDUCTOR TEMPERATURE

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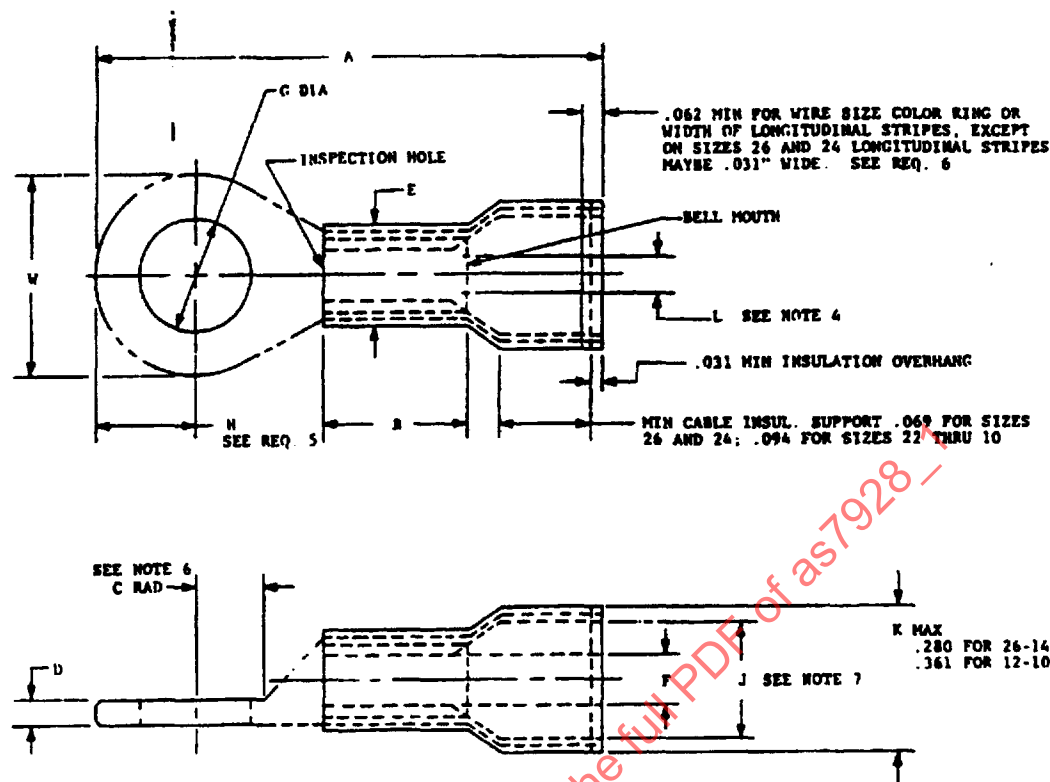
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ISSUED 1999-04

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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.



REQUIREMENTS:

1. MATERIALS: SEE ACQUISITION SPECIFICATION.
2. INSULATION MATERIAL: SEE ACQUISITION SPECIFICATION.
3. FINISH: TIN PLATED. SEE ACQUISITION SPECIFICATION.
4. AVERAGE DIAMETER OF "E" AND "F" SHALL BE WITHIN SPECIFICATION DIMENSIONS.
5. "H" MAX AND MIN DIMENSIONS SHALL BE ONE HALF OF "W" MAX AND MIN DIMENSIONS, RESPECTIVELY.
6. 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 BE EXTENDED TO WITHIN 1/16" OF THE ENDS OF THE INSULATION AND MUST NOT OBLITERATE THE BASIC SLEEVE COLOR.
7. COLORS: WIRE SIZE COLOR SHALL BE IN ACCORDANCE WITH EIA STANDARDS RS-359. THERE SHALL BE A DISTINCT CONTRAST BETWEEN THE INSULATION SLEEVE COLOR AND THE WIRE SIZE COLOR.
8. QUALIFICATION: FOR QUALIFICATION TESTING ONLY TERMINALS SHALL BE TESTED WITH MIL-W-81381/7 OR MIL-W-81044/18 WIRE AND TOOLING AS FOLLOWS: MIL-C-22520/5-01 TOOLING WITH MIL-C-22520/5-100 DIES INSTALLED FOR SIZES 22 THROUGH 10 TERMINALS; OR MIL-C-22520/10-01 TOOLING WITH MIL-C-22520/10-101 DIES INSTALLED FOR SIZES 26 THROUGH 14 TERMINALS AND MIL-C-22520/10-100 DIES INSTALLED FOR SIZES 12 THROUGH 10 TERMINALS. EXISTING MS90413 AND MS3316 TOOLS IN THE FIELD MAY BE USED UNTIL WORN OUT.
9. PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE LETTER "M" SPECIFICATION SHEET NUMBER, AND DASH NUMBER. EXAMPLE OF PART NUMBER: M7928/1-15 TERMINAL FOR SIZE 22 WIRE WITH A NO. 10 STUD HOLE.

AEROSPACE STANDARD

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RING TONGUE, FOR THIN WALL WIRE, TYPE II CLASS 1
FOR 150°C TOTAL CONDUCTOR TEMPERATURE

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INCHES	mm	INCHES	mm
.022	0.56	.193	4.90
.027	0.69	.202	5.13
.028	0.71	.203	5.16
.029	0.74	.210	5.33
.031	0.79	.215	5.46
.033	0.84	.227	5.77
.034	0.86	.230	5.84
.037	0.94	.234	5.94
.039	0.99	.240	6.10
.042	1.07	.245	6.22
.043	1.09	.250	6.35
.048	1.22	.260	6.60
.052	1.32	.265	6.73
.056	1.42	.275	6.99
.059	1.50	.296	7.52
.060	1.52	.300	7.62
.062	1.57	.338	8.59
.063	1.60	.365	9.27
.069	1.75	.375	9.53
.070	1.78	.380	9.65
.074	1.88	.385	9.78
.078	1.98	.400	10.16
.080	2.03	.450	11.43
.090	2.29	.453	11.51
.091	2.31	.473	12.01
.094	2.39	.502	12.70
.095	2.41	.510	12.95
.098	2.49	.516	13.11
.100	2.54	.520	13.21
.110	2.79	.525	13.34
.112	2.84	.536	13.61
.114	2.90	.540	13.72
.115	2.92	.573	14.55
.118	3.00	.598	15.19
.122	3.10	.705	17.91
.125	3.18	.720	18.29
.126	3.20	.740	18.80
.130	3.30	.786	19.96
.133	3.38	.801	20.35
.135	3.43	.820	20.83
.138	3.51	.886	22.50
.142	3.61	.911	23.14
.150	3.81	.956	24.28
.152	3.86	.961	24.41
.156	3.96	1.131	28.73
.164	4.17	1.136	28.85
.168	4.27	1.198	30.43
.171	4.34	1.271	32.28
.178	4.52	1.366	34.70
.180	4.57	1.400	35.56
.190	4.83	1.492	37.90

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RING TONGUE, FOR THIN WALL WIRE, TYPE II CLASS 1
FOR 150°C TOTAL CONDUCTOR TEMPERATURE

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TABLE

DASH NO.	TERM. SIZE	STUD SIZE	A MAX.	B MIN.	C MIN. RAD.	D	E DIA.	F DIA.	G DIA.		J MIN DIA.	L	M		INSUL. SLEEVE COLOR	WIRE SIZE COLOR
									MAX	MIN			MAX	MIN		
1	26	2 (.086)	.740		.133				.098	.090			.210	.133	YELLOW	BLACK
2		4 (.112)	.786		.171				.122	.114				.193		
3		6 (.138)		.126	.202	.028	.215	.033			.060	.028	.260			
4		8 (.164)	.886			.022	.190	.022	.178	.168				.245		
5		10 (.190)			.227				.203	.193			.330			
6	24	2 (.086)	.740		.133				.098	.090			.210	.133	YELLOW	BLUE
7		4 (.112)	.786		.171				.122	.114				.193		
8		6 (.138)		.126	.202	.028	.215	.033	.152	.142	.070	.033	.260			
9		8 (.164)	.886			.022	.190	.022	.178	.168				.245		
10		10 (.190)			.227				.203	.193			.330			
11	22	2 (.086)	.790		.115				.096	.090			.230	.198	RED	GREEN
12		4 (.112)	.801		.125				.122	.114				.210		
13		6 (.138)	.911		.202				.152	.142			.260	.245		
14		8 (.164)	.956						.178	.168						
15		10 (.190)		.156	.234	.037	.215	.070	.203	.193	.080	.039	.320	.305		
16		1/4 (.250)	1.136		.265	.029	.190	.034	.275	.260			.473	.450		
17		5/16 (.312)			.296				.338	.323			.540	.520		
18		3/8 (.375)	1.366		.328				.400	.385			.720	.705		
19		1/2 (.500)			.453				.525	.510						
20		2 (.086)	.790		.115				.096	.090			.230	.198	RED	RED
21	20	4 (.112)	.801		.125				.122	.114				.210		
22		6 (.138)	.911		.202				.152	.142			.260	.245		
23		8 (.164)	.956						.178	.168						
24		10 (.190)		.156	.234	.037	.215	.070	.203	.193	.090	.048	.320	.305		
25		1/4 (.250)	1.136		.265	.029	.190	.042	.275	.260			.473	.450		
26		5/16 (.312)			.296				.338	.323			.540	.520		
27		3/8 (.375)	1.366		.328				.400	.385			.720	.705		
28		1/2 (.500)			.453				.525	.510						
29		2 (.086)	.790		.115				.096	.090			.230	.198	RED	WHITE
30	18	4 (.112)	.801		.125				.122	.114				.210		
31		6 (.138)	.911		.202				.152	.142			.260	.245		
32		8 (.164)	.956						.178	.168						
33		10 (.190)		.156	.234	.037	.215	.070	.203	.193	.100	.056	.320	.305		
34		1/4 (.250)	1.136		.265	.029	.190	.052	.275	.260			.473	.450		
35		5/16 (.312)			.296				.338	.323			.540	.520		
36		3/8 (.375)	1.366		.328				.400	.385			.720	.705		
37		1/2 (.500)			.453				.525	.510						
38		4 (.112)	.820		.125				.122	.114			.260	.240	BLUE	BLUE
39	16	6 (.138)			.202				.152	.142						
40		8 (.164)	.956						.178	.168			.317	.302		
41		10 (.190)	.961	.156	.234	.037	.240	.090	.203	.193	.110	.063	.473	.450		
42		1/4 (.250)	1.131		.265	.029	.210	.059	.275	.260						
43		5/16 (.312)			.296				.338	.323			.540	.520		
44		3/8 (.375)	1.221		.328				.400	.385			.720	.705		
45		1/2 (.500)	1.366		.453				.525	.510						
46		4 (.112)	.820		.125				.122	.114			.260	.240	BLUE	GREEN
47	14	6 (.138)			.202				.152	.142						
48		8 (.164)	.956						.178	.168			.317	.302		
49		10 (.190)	.961	.156	.234	.037	.240	.090	.203	.193	.130	.078	.473	.450		
50		1/4 (.250)	1.131		.265	.029	.210	.074	.275	.260						
51		5/16 (.312)			.296				.338	.323			.540	.520		
52		3/8 (.375)	1.271		.328				.400	.385			.720	.705		
53		1/2 (.500)	1.366		.453				.525	.510						
54		6 (.138)			.202				.152	.142			.380	.365	YELLOW	YELLOW
55	12	8 (.164)	1.198						.178	.168						
56		10 (.190)		.234	.265	.043	.300	.135	.203	.193	.150	.095	.536	.516		
57		1/4 (.250)	1.400		.296	.037	.275	.091	.338	.323			.598	.573		
58		5/16 (.312)			.328				.400	.385			.720	.705		
59		3/8 (.375)	1.492		.453				.525	.510						

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