

REV.
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AS7928™/1

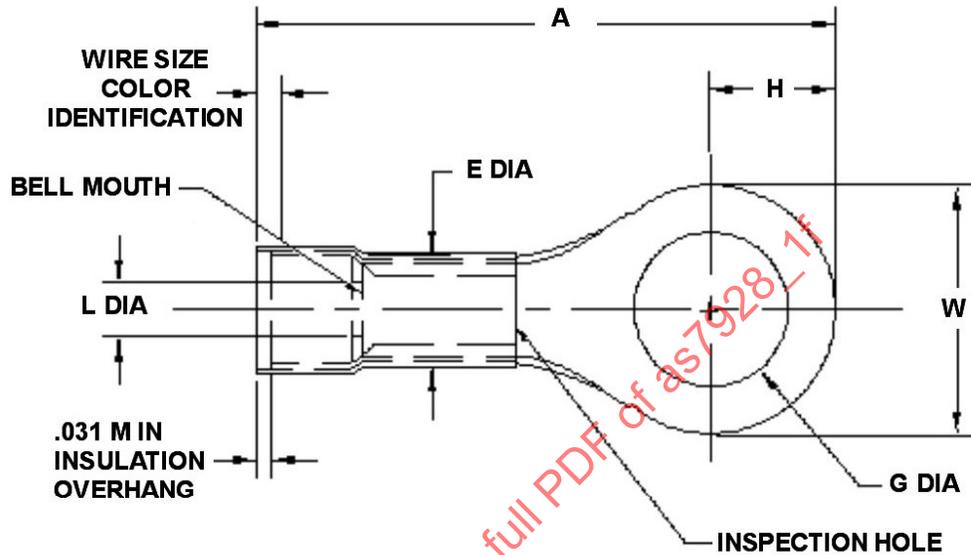
FEDERAL SUPPLY CLASS
5940

RATIONALE

LIMITED SCOPE REVISION REQUIRED TO REMOVE NICKEL FINISH CONDUCTOR FOR QUALIFICATION TESTING.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.



MIN WIRE INSULATION SUPPORT
 .069 FOR SIZES 26-24
 .094 FOR SIZES 22-10

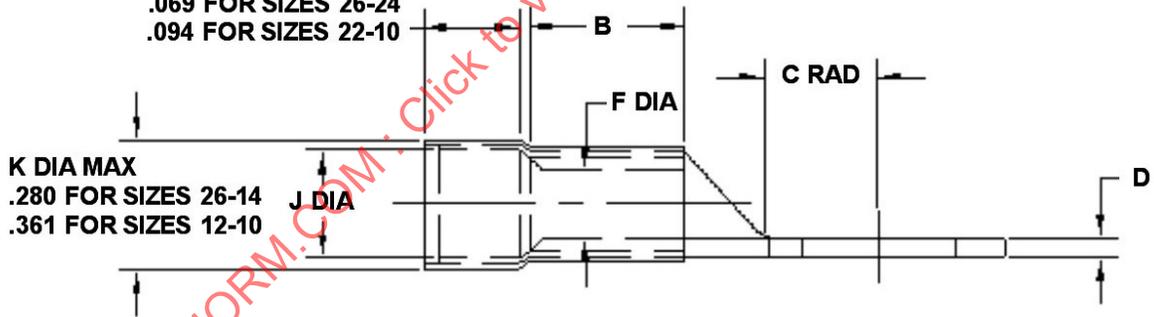
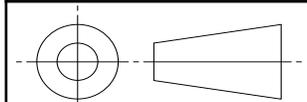


FIGURE 1 - TERMINAL CONSTRUCTION

For more information on this standard, visit
<https://www.sae.org/standards/content/AS7928/1F/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS7928



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 105 °C TOTAL CONDUCTOR TEMPERATURE

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ISSUED 1999-04 REVISED 2024-03

TABLE 1 - DIMENSIONS

DASH NO.	WIRE SIZE	STUD SIZE		A MAX	B MIN	C MIN RAD	D	E DIA	F DIA	G DIA		J MIN DIA	L	W & H 1/		INSUL. SLEEVE COLOR	WIRE SIZE COLOR		
		STUD (INCHES)	DIA (INCHES)							MAX	MIN			MAX	MIN				
1	26	2	(.086)	.740	.126	.133				.098	.090	.060	.028 .022	.210	.133	YELLOW	BLACK		
2		4	(.112)	.786		.171				.122	.114			.260	.193				
3		6	(.138)	.886		.202				.152	.142			.330	.245				
4		8	(.164)			.227				.178	.168								
5		10	(.190)			.203				.193									
6	24	2	(.086)	.740	.126	.133				.098	.090	.070	.033 .027	.210	.133	YELLOW	BLUE		
7		4	(.112)	.786		.171				.122	.114			.260	.193				
8		6	(.138)	.886		.202				.152	.142			.330	.245				
9		8	(.164)			.227				.178	.168								
10		10	(.190)			.203				.193									
70	22	2	(.086)	.790	.156	.115				.098	.090	.080	.039 .034	.198	.230	.210	RED	GREEN	
11		4	(.112)	.801		.125				.152	.142			.260					.245
12		6	(.138)	.911		.202				.178	.168			.320					.305
13		6	(.138)			.234				.203	.193								
14		8	(.164)	.956		.265				.275	.260								
15		10	(.190)			.296				.338	.323								
16		1/4	(.250)			1.136				.328	.400								
17		5/16	(.312)	1.366		.453				.525	.510			.720					.705
18		3/8	(.375)																
19		1/2	(.500)																
71	20	2	(.086)	.790	.156	.115				.098	.090	.090	.048 .042	.198	.230	.210	RED	RED	
20		4	(.112)	.801		.125				.152	.142			.260					.245
21		6	(.138)	.911		.202				.178	.168			.320					.305
22		6	(.138)			.234				.203	.193								
23		8	(.164)	.956		.265				.275	.260								
24		10	(.190)			.296				.338	.323								
25		1/4	(.250)			1.136				.328	.400								
26		5/16	(.312)	1.366		.453				.525	.510			.720					.705
27		3/8	(.375)																
28		1/2	(.500)																
72	18	2	(.086)	.790	.156	.115				.098	.090	.100	.056 .052	.198	.230	.210	RED	WHITE	
29		4	(.112)	.801		.125				.152	.142			.260					.245
30		6	(.138)	.911		.202				.178	.168			.320					.305
31		6	(.138)			.234				.203	.193								
32		8	(.164)	.956		.265				.275	.260								
33		10	(.190)			.296				.338	.323								
34		1/4	(.250)			1.136				.328	.400								
35		5/16	(.312)	1.366		.453				.525	.510			.720					.705
36		3/8	(.375)																
37		1/2	(.500)																



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 105 °C TOTAL CONDUCTOR TEMPERATURE

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TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	WIRE SIZE	STUD SIZE		A MAX	B MIN	C MIN RAD	D	E DIA	F DIA	G DIA		J MIN DIA	L	W & H 1/		INSUL. SLEEVE COLOR	WIRE SIZE COLOR			
		STUD	DIA (INCHES)							MAX	MIN			MAX	MIN					
38	16	4	(.112)	.820	.156	.125				.122	.114	.110	.063 .054	.260	.240	BLUE	BLUE			
39		6	(.138)							.152	.142			.317	.302					
40		6	(.138)							.956	.178							.168		
41		8	(.164)	.202		.203					.193			.473	.450					
42		10	(.190)	.234		.037 .029					.240 .210							.090 .059	.275	.260
43		1/4	(.250)	1.131		.265				.296	.338			.323	.400			.385	.540	.520
44		5/16	(.312)			.328				.400	.385			.525	.510			.720	.705	
45		3/8	(.375)	1.271		.328				.400	.385			.525	.510			.720	.705	
46		1/2	(.500)	1.366		.453				.525	.510			.720	.705					
47	14	4	(.112)	.820	.156	.125				.122	.114	.130	.078 .074	.260	.240	BLUE	GREEN			
48		6	(.138)							.152	.142			.317	.302					
49		6	(.138)							.956	.178							.168		
50		8	(.164)	.202		.203					.193			.473	.450					
51		10	(.190)	.234		.037 .029					.240 .210							.090 .074	.275	.260
52		1/4	(.250)	1.131		.265				.296	.338			.323	.400			.385	.540	.520
53		5/16	(.312)			.328				.400	.385			.525	.510			.720	.705	
54		3/8	(.375)	1.271		.328				.400	.385			.525	.510			.720	.705	
55		1/2	(.500)	1.366		.453				.525	.510			.720	.705					
56	12	6	(.138)	1.198	.234	.202				.152	.142	.150	.095 .091	.380	.365	YELLOW	YELLOW			
57		8	(.164)			.178				.168	.536			.516						
58		10	(.190)			.203				.193										
59		1/4	(.250)	1.400		.265				.043 .037	.300 .275			.139 .091	.275			.260	.598	.573
60		5/16	(.312)			.296				.338	.323			.400	.385			.598	.573	
61		3/8	(.375)	1.492		.328				.400	.385			.525	.510			.720	.705	
62		1/2	(.500)			.453				.525	.510			.720	.705					
63	10	6	(.138)	1.198	.234	.202				.152	.142	.180	.118 .115	.380	.365	YELLOW	BROWN			
64		8	(.164)			.178				.168	.536			.516						
65		10	(.190)			.203				.193										
66		1/4	(.250)	1.400		.265				.043 .037	.300 .275			.139 .115	.275			.260	.598	.573
67		5/16	(.312)			.296				.338	.323			.400	.385			.598	.573	
68		3/8	(.375)	1.492		.328				.400	.385			.525	.510			.720	.705	
69		1/2	(.500)			.453				.525	.510			.720	.705					

1/ H MAX AND MIN DIMENSIONS SHALL BE ONE-HALF OF THE W MAX AND MIN DIMENSIONS, RESPECTIVELY.

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7928.

1. CONFIGURATION:

CONFIGURATION SHALL BE IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.

CONTOUR INDICATED BY PHANTOM LINES IN FIGURE 1 MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN. INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE PIECE CONSTRUCTION. WIRE INSERTION IS FACILITATED BY BELL MOUTH.

DIMENSIONS ARE INCHES (SEE TABLE 1 AND FIGURE 1).

THE AVERAGE DIAMETER OF "E" AND AVERAGE DIAMETER OF "F" WITHIN THE LENGTH SPECIFIED BY B SHALL BE WITHIN SPECIFICATION DIMENSIONS (SEE FIGURE 1 AND TABLE 1).

DIMENSION "C RAD" REPRESENTS THE MINIMUM WASHER CLEARANCE RADIUS.

DIMENSION "L" REPRESENTS THE WIRE INSULATION STOP. THIS LUG DESIGN (DESIGN OPTIONAL) WILL NOT STOP INSULATION WITH A WALL THICKNESS OF LESS THAN .005 INCH.

DIMENSION "J" REPRESENTS THE MINIMUM OPENING THAT WILL ACCEPT THE FINISHED WIRE.

INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE PIECE CONSTRUCTION. WIRE INSERTION IS FACILITATED BY BELL MOUTH.

REMOVE ALL BURRS AND SHARP EDGES.

2. MATERIALS:

MATERIALS SHALL BE IN ACCORDANCE WITH AS7928.

TIN PLATED FINISHED (SEE APPLICATION NOTES).

3. IDENTIFICATION OF PRODUCT:

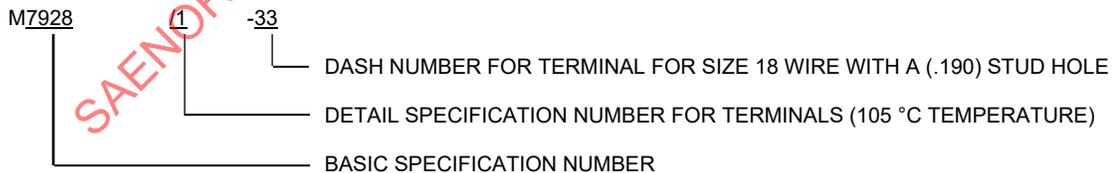
WIRE SIZE COLOR IDENTIFICATION SHALL BE IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.

A COLOR RING SHALL COVER A MINIMUM OF 315° OF THE CIRCUMFERENCE DESIGNATED BY DIMENSION B.

IN LIEU OF THE WIRE SIZE COLOR RING, TWO OR MORE LONGITUDINAL STRIPES EQUALLY SPACED ON THE INSULATION PORTION OF THE TERMINAL MAY BE USED. THE STRIPES SHALL BE EXTENDED TO WITHIN 1/16 INCH OF THE INSULATION AND MUST NOT OBLITERATE THE BASIC SLEEVE COLOR.

TERMINAL WIRE SIZE COLOR SHALL BE IN ACCORDANCE WITH TABLE 1 AND MIL-STD-104 CLASS 1. THERE SHALL BE A DISTINCT CONTRAST BETWEEN THE INSULATION SLEEVE COLOR AND THE WIRE SIZE COLOR.

4. PART NUMBER:



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	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 105 °C TOTAL CONDUCTOR TEMPERATURE		