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REV.
E

AS7928™/1

FEDERAL SUPPLY CLASS
5940

RATIONALE

REVISION REQUIRED TO ADD NEW CRIMP TOOLS, CHANGE SILVER CONDUCTOR WIRE TO NICKEL CONDUCTOR WIRE FOR QUALIFICATION, AND MAKE MINOR EDITORIAL AND TECHNICAL CHANGES AS NEEDED.

NOTICE

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

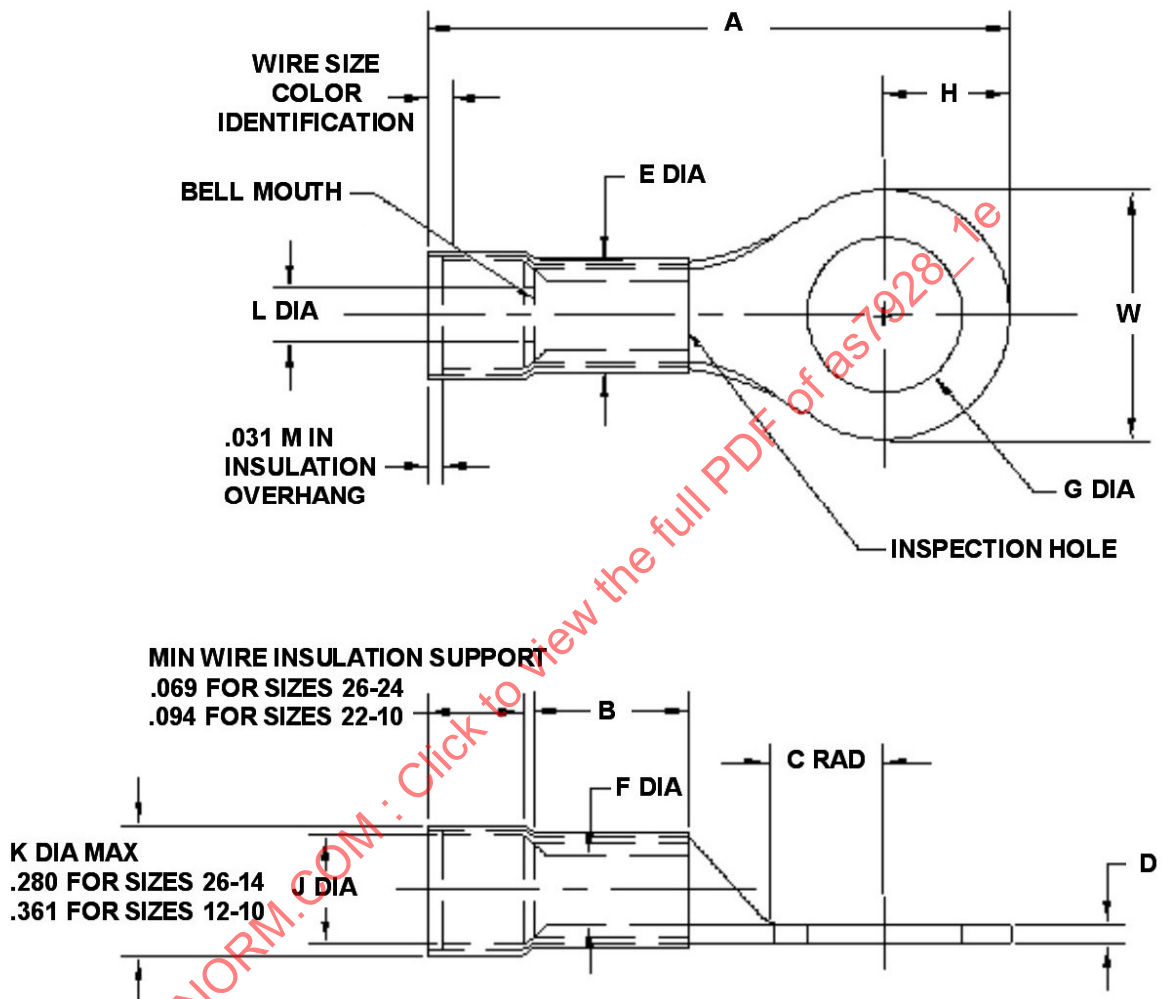
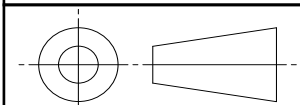


FIGURE 1 - TERMINAL CONSTRUCTION

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

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

AS7928™/1
SHEET 1 OF 5

REV.
E

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ISSUED 1999-04 REVISED 2021-09

TABLE 1 - DIMENSIONS

DASH NO.	WIRE SIZE	STUD SIZE			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 (IN)	A MAX						MAX	MIN						
1	26	2	(.086)	.740	.126	.133	.028 .022	.215 .190	.033 .022	.098	.090	.060	.028 .022	.210	.133	YELLOW	BLACK
2		4	(.112)	.786		.171				.122	.114			.193			
3		6	(.138)	.886		.202				.152	.142			.330	.245		
4		8	(.164)			.178				.168							
5		10	(.190)			.203				.193							
6	24	2	(.086)	.740	.126	.133	.028 .022	.215 .190	.033 .027	.098	.090	.070	.033 .027	.210	.133	YELLOW	BLUE
7		4	(.112)	.786		.171				.122	.114			.193			
8		6	(.138)	.886		.202				.152	.142			.330	.245		
9		8	(.164)			.178				.168							
10		10	(.190)			.203				.193							
70	22	2	(.086)	.790	.156	.115	.037 .029	.215 .190	.070 .034	.098	.090	.080	.039 .034	.230	.198	RED	GREEN
11		4	(.112)	.801		.125				.122	.114				.210		
12		6	(.138)	.911		.202				.152	.142			.260	.245		
13		6	(.138)	.911						.152	.142						
14		8	(.164)	.956		.234				.178	.168			.320	.305		
15		10	(.190)							.203	.193						
16		1/4	(.250)	1.136		.265				.275	.260			.473	.450		
17		5/16	(.312)			.296				.338	.323						
18		3/8	(.375)	1.366		.328				.400	.385			.540	.520		
19		1/2	(.500)			.453				.525	.510						
71	20	2	(.086)	.790	.156	.115	.037 .029	.215 .190	.070 .042	.098	.090	.090	.048 .042	.230	.198	RED	RED
20		4	(.112)	.801		.125				.122	.114				.210		
21		6	(.138)	.911		.202				.152	.142			.260	.245		
22		6	(.138)	.911						.152	.142						
23		8	(.164)	.956		.234				.178	.168			.320	.305		
24		10	(.190)							.203	.193						
25		1/4	(.250)	1.136		.265				.275	.260			.473	.450		
26		5/16	(.312)			.296				.338	.323						
27		3/8	(.375)	1.366		.328				.400	.385			.540	.520		
28		1/2	(.500)			.453				.525	.510						
72	18	2	(.086)	.790	.156	.115	.037 .029	.215 .190	.070 .052	.098	.090	.100	.056 .052	.230	.198	RED	WHITE
29		4	(.112)	.801		.125				.122	.114				.210		
30		6	(.138)	.911		.202				.152	.142			.260	.245		
31		6	(.138)	.911						.152	.142						
32		8	(.164)	.956		.234				.178	.168			.320	.305		
33		10	(.190)							.203	.193						
34		1/4	(.250)	1.136		.265				.275	.260			.473	.450		
35		5/16	(.312)			.296				.338	.323						
36		3/8	(.375)	1.366		.328				.400	.385			.540	.520		
37		1/2	(.500)			.453				.525	.510						



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

AS7928™/1
SHEET 2 OF 5

REV.
E

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 (IN)							MAX	MIN			MAX	MIN						
38	16	4	(.112)	.820	.156	.125	.037 .029	.240 .210	.090 .059	.122	.114	.110	.063 .054	.260	.240	BLUE	BLUE				
39		6	(.138)							.152	.142										
40		6	(.138)							.178	.168			.317	.302						
41		8	(.164)	.956		.202				.203	.193										
42		10	(.190)							.275	.260			.473	.450						
43		1/4	(.250)							.338	.323			.540	.520						
44		5/16	(.312)	1.131		.296				.400	.385			.720	.705						
45		3/8	(.375)																		
46		1/2	(.500)																		
47	14	4	(.112)	.820	.156	.125	.037 .029	.240 .210	.090 .074	.122	.114	.130	.078 .074	.260	.240	BLUE	GREEN				
48		6	(.138)							.152	.142										
49		6	(.138)							.178	.168			.317	.302						
50		8	(.164)	.956		.202				.203	.193										
51		10	(.190)							.275	.260			.473	.450						
52		1/4	(.250)							.338	.323			.540	.520						
53		5/16	(.312)	1.131		.296				.400	.385			.720	.705						
54		3/8	(.375)																		
55		1/2	(.500)																		
56	12	6	(.138)	1.198	.234	.202	.043 .037	.300 .275	.139 .091	.152	.142	.150	.095 .091	.380	.365	YELLOW	YELLOW				
57		8	(.164)							.178	.168										
58		10	(.190)							.203	.193										
59		1/4	(.250)	1.400		.265				.275	.260			.536	.516						
60		5/16	(.312)			.296				.338	.323										
61		3/8	(.375)			.328				.400	.385			.598	.573						
62		1/2	(.500)	1.492		.453				.525	.510			.720	.705						
63	10	6	(.138)	1.198		.202	.043 .037	.300 .275	.139 .115	.152	.142	.180	.118 .115	.380	.365	YELLOW	BROWN				
64		8	(.164)							.178	.168										
65		10	(.190)							.203	.193										
66		1/4	(.250)	1.400		.265				.275	.260			.536	.516						
67		5/16	(.312)			.296				.338	.323										
68		3/8	(.375)			.328				.400	.385			.598	.573						
69		1/2	(.500)	1.492		.453				.525	.510			.720	.705						

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



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

AS7928™/1
SHEET 3 OF 5

REV.
E

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 MIN 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. MATERIAL:

MATERIALS SHALL BE IN ACCORDANCE WITH AS7928.

TIN PLATED FINISHED (SEE APPLICATION NOTES).

3. IDENTIFICATION OF PRODUCT MARKING:

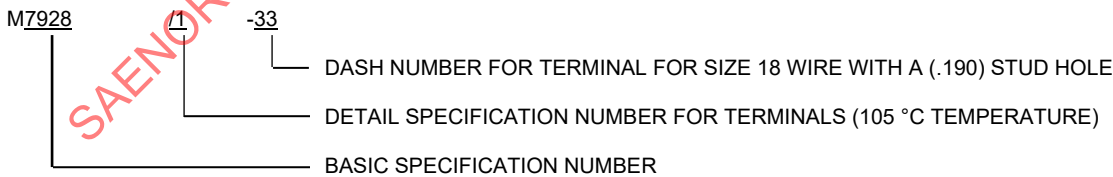
WIRE SIZE COLOR IDENTIFICATION SHALL BE IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.

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:



	AEROSPACE STANDARD	AS7928™/1 SHEET 4 OF 5	REV. E
	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		