FEDERAL SUPPLY CLASS
5940

RATIONALE

THE AE8C2 TERMINATING DEVICES AND TOOLING COMMITTEE HAS DETERMINED THIS DOCUMENT WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. THERE ARE NO QUALIFIED SUPPLIERS.

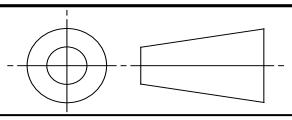
STABILIZED NOTICE

THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE AE-8C2 TERMINATING DEVICES AND TOOLING COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.

ISSUED 1999-04 REAFFIRMED 2012-08 REVISED 2021-02 STABILIZED 2021-08

For more information on this standard, visit
https://www.sae.org/standards/content/AS7928/2E

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C2

PROCUREMENT SPECIFICATION: AS7928

SAE INTERNATIONAL

AEROSPACE STANDARD

TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, FOR THIN WALL WIRE, TYPE III, CLASS 1, FOR 105 °C TOTAL CONDUCTOR TEMPERATURE

AS7928™/2

REV. E

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NOTICE

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

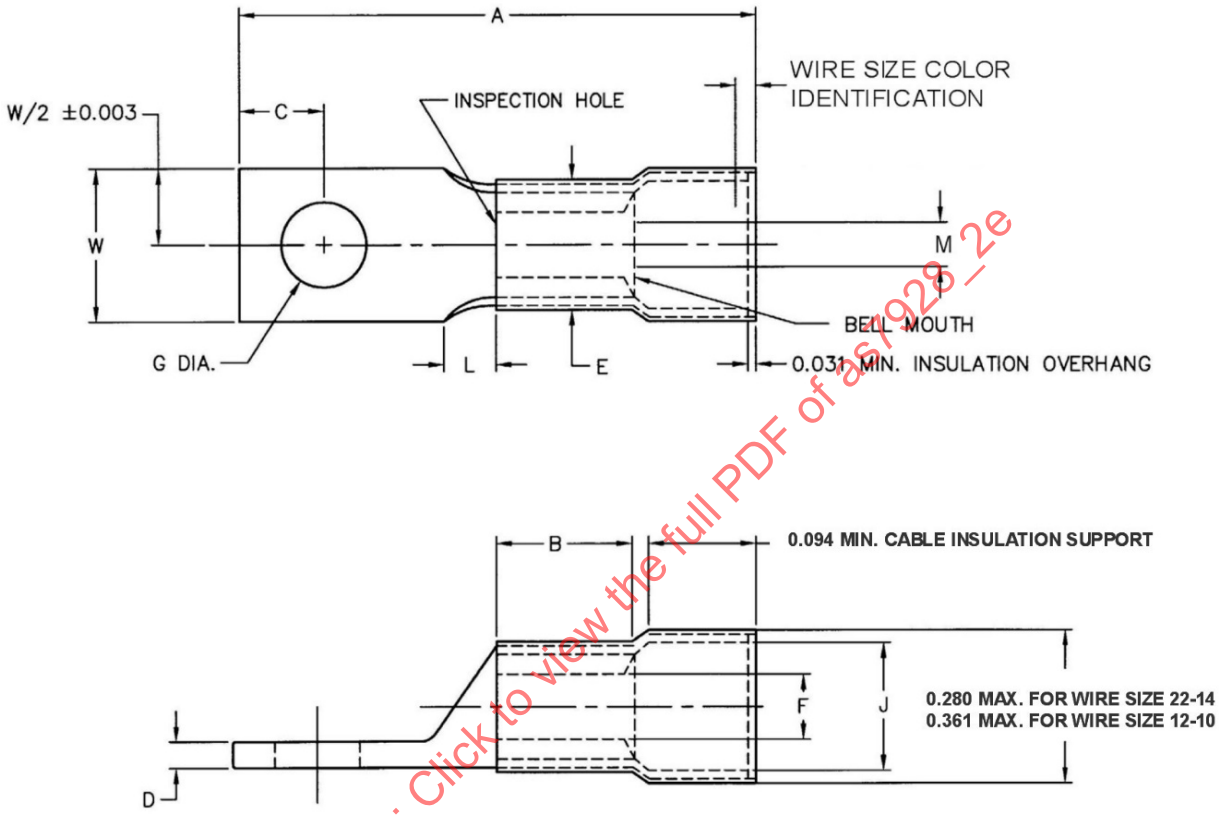


FIGURE 1

TABLE 1 - DIMENSIONS

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	M	W ±.005	INSUL. SLEEVE COLOR	WIRE SIZE COLOR	TONGUE SHAPE (REF ONLY)	NAVY TERM. AND WIRE SIZE (REF ONLY)
1		4 (.112)	.842		.143				.122	.114		.125		.237			L86P-1	
2		4 (.112)	1.061		.195				.122	.114		.156		.237			L85P-1	
3		5 (.125)	.905		.143				.137	.129		.125		.277			L83P-1	
4	22	6 (.138)	1.061	.156	.195	.037 .029	.215 .190	.070 .034	.152	.142	.110	.156	.039 .034	.237	RED	GREEN	L84P-1	1-2
5		6 (.138)	1.155		.227				.152	.142		.250		.302			L81P-1	
6		8 (.164)	1.155		.227				.178	.168		.250		.302			L82P-1	
7		8 (.164)	1.405		.310				.178	.168		.281		.390			L80P-1	
8		4 (.112)	.842		.143				.122	.114		.125		.237			L86P-1	
9		4 (.112)	1.061		.195				.122	.114		.156		.237			L85P-1	
10		5 (.125)	.905		.143				.137	.129		.125		.277			L83P-1	
11	20	6 (.138)	1.061	.156	.195	.037 .029	.215 .190	.070 .042	.152	.142	.130	.156	.048 .042	.237	RED	RED	L84P-1	1-2
12		6 (.138)	1.155		.227				.152	.142		.250		.302			L81P-1	
13		8 (.164)	1.155		.227				.178	.168		.250		.302			L82P-1	
14		8 (.164)	1.405		.310				.178	.168		.281		.390			L80P-1	
15		4 (.112)	.842		.143				.122	.114		.125		.237			L86P-1	
16		4 (.112)	1.061		.195				.122	.114		.156		.237			L85P-1	
17		5 (.125)	.905		.143				.137	.129		.125		.277			L83P-1	
18	18	6 (.138)	1.061	.156	.195	.037 .029	.215 .190	.070 .052	.152	.142	.150	.156	.056 .052	.237	RED	WHITE	L84P-1	1-2
19		6 (.138)	1.155		.227				.152	.142		.250		.302			L81P-1	
20		8 (.164)	1.155		.227				.178	.168		.250		.302			L82P-1	
21		8 (.164)	1.405		.310				.178	.168		.281		.390			L80P-1	
22		4 (.112)	.842		.143				.122	.114		.125		.237			L86P-2	
23		4 (.112)	1.061		.195				.122	.114		.156		.237			L85P-2	
24		5 (.125)	.905		.143				.137	.129		.125		.277			L83P-2	
25	16	6 (.138)	1.061	.156	.195	.037 .029	.240 .210	.090 .059	.152	.142	.110	.156	.063 .059	.237	BLUE	BLUE	L84P-2	2 1/2 - 4
26		6 (.138)	1.155		.227				.152	.142		.250		.302			L81P-2	
27		8 (.164)	1.155		.227				.178	.168		.250		.302			L82P-2	
28		8 (.164)	1.405		.310				.178	.168		.281		.390			L80P-2	
29		4 (.112)	.842		.143				.122	.114		.125		.237			L86P-2	
30		4 (.112)	1.061		.195				.122	.114		.156		.237			L85P-2	
31		5 (.125)	.905		.143				.137	.129		.125		.277			L83P-2	
32	14	6 (.138)	1.061	.156	.195	.037 .029	.240 .210	.090 .074	.152	.142	.130	.156	.078 .074	.237	BLUE	GREEN	L84P-2	2 1/2 - 4
33		6 (.138)	1.155		.227				.152	.142		.250		.302			L81P-2	
34		8 (.164)	1.155		.227				.178	.168		.250		.302			L82P-2	
35		8 (.164)	1.405		.310				.178	.168		.281		.390			L80P-2	
36		4 (.112)	1.062		.143				.122	.114		.125		.237			L86P-3	
37		4 (.112)	1.281		.195				.122	.114		.156		.237			L85P-3	
38		5 (.125)	1.124		.143				.137	.129		.125		.277			L83P-3	
39	12	6 (.138)	1.281	.234	.195	.046 .035	.300 .275	.135 .091	.152	.142	.150	.156	.095 .091	.237	YELLOW	YELLOW	L84P-3	6-9
40		6 (.138)	1.359		.227				.152	.142		.250		.302			L81P-3	
41		8 (.164)	1.359		.227				.178	.168		.250		.302			L82P-3	
42		8 (.164)	1.609		.310				.178	.168		.281		.390			L80P-3	
43		4 (.112)	1.062		.143				.122	.114		.125		.237			L86P-3	
44		4 (.112)	1.281		.195				.122	.114		.156		.237			L85P-3	
45		5 (.125)	1.124		.143				.137	.129		.125		.277			L83P-3	
46	10	6 (.138)	1.281	.234	.195	.046 .037	.300 .275	.135 .115	.152	.142	.180	.156	.118 .115	.237	YELLOW	BROWN	L84P-3	6-9
47		6 (.138)	1.359		.227				.152	.142		.250		.302			L81P-3	
48		8 (.164)	1.359		.227				.178	.168		.250		.302			L82P-3	
49		8 (.164)	1.609		.310				.178	.168		.281		.390			L80P-3	

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.

   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 TABLE 1).

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

   THIN WALL INSULATED WIRES WITH AN OUTSIDE DIAMETER SMALLER THAN DIMENSION "F" WILL PERMIT THE INSULATION PORTION OF THE WIRE TO ENTER THE CONDUCTOR CRIMP AREA. THE CONDUCTOR MUST BE POSITION BY EYE SIGHT IN TO THE CRIMP BARREL AREA TO INSURE A RELIABLE CRIMP.

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

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

   BURRS AND EDGES: REMOVE ALL BURRS AND SHARP EDGES.

2. MATERIALS:

   MATERIALS SHALL BE IN ACCORDANCE WITH AS7928.

3. IDENTIFICATION OF PRODUCT MARKING:

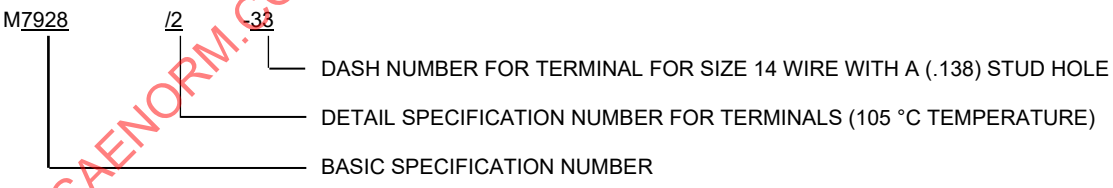
   WIRE SIZE COLOR IDENTIFICATION SHALL BE IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.

   A COLOR RING SHALL COVER A MINIMUM OF 315° OF THE CABLE INSULATION SUPPORT CIRCUMFERENCE.

   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 END OF THE CABLE INSULATION SUPPORT SLEEVE AND SHALL NOT OBLITERATE THE BASIC SLEEVE COLOR.

   TERMINAL WIRE SIZE COLOR SHALL BE IN ACCORDANCE WITH TABLE 1 AND EIA-359-A (CLASS 1). THERE SHALL BE A DISTINCT CONTRAST BETWEEN THE INSULATION SLEEVE COLOR AND THE WIRE SIZE COLOR.

4. PART NUMBER:



5. CRIMPING TOOLS:

   CRIMPING TOOLS SHALL BE AS SPECIFIED IN TABLE 2.