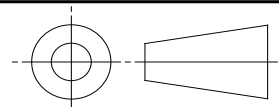



SAE Executive Standards Committee Rules provide that: " This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV. C	FEDERAL SUPPLY CLASS 5940	
	<p>RATIONALE</p> <p>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.</p> <p>STABILIZED NOTICE</p> <p>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.</p>	
AS7928™/9	<p>SAENORM.COM : Click to view the full PDF of as7928_9C</p>	
<p>For more information on this standard, visit https://www.sae.org/standards/content/AS7928/9C/</p>		<p>THIRD ANGLE PROJECTION</p> 
CUSTODIAN: AE-8C2		PROCUREMENT SPECIFICATION: AS7928
	<p>AEROSPACE STANDARD</p> <p>TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, TIN WHISKER RESISTANT FOR THIN WALL WIRE, TYPE II, CLASS 1 FOR 105 °C TOTAL CONDUCTOR TEMPERATURE</p>	<p>AS7928™/9</p> <p>REV. C</p>

NOTICE

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

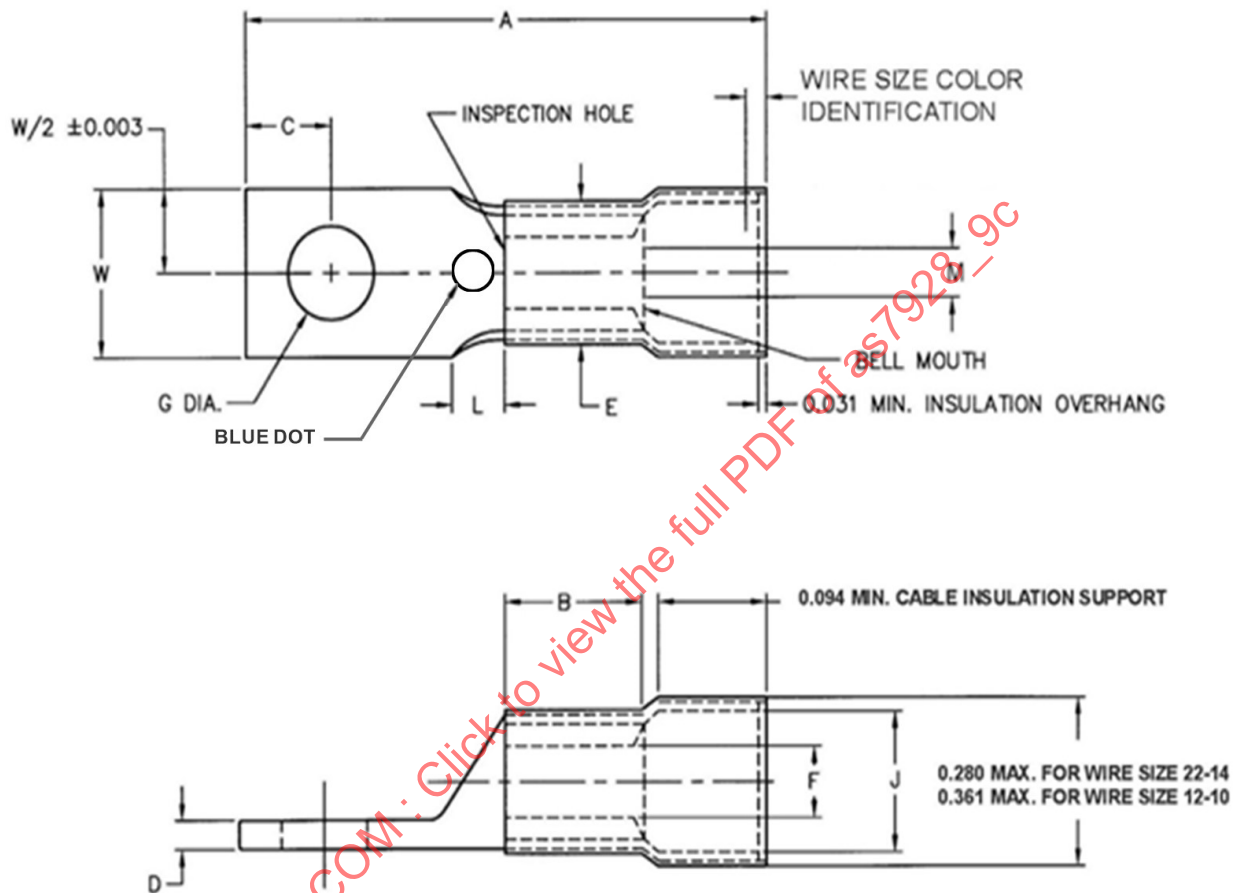



FIGURE 1 - TERMINAL CONSTRUCTION

	AEROSPACE STANDARD	AS7928™/9 SHEET 1 OF 5	REV. C
	TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, TIN WHISKER RESISTANT FOR THIN WALL WIRE, TYPE II, CLASS 1 FOR 105 °C TOTAL CONDUCTOR TEMPERATURE		

AS7928™/9
SHEET 1 OF 5

TABLE 1 - DIMENSIONS

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MAX	C ±.010	D	E DIA	F DIA	G DIA		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)
									MAX	MIN								
1	22	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .034	.122	.114	.110	.125	.039 .034	.237	RED	GREEN	L86P-1	1-2
2		4 (.112)	1.061		.195				.122	.114		.156					L85P-1	
3		5 (.125)	.905		.143				.137	.129		.125					L83P-1	
4		6 (.138)	1.061		.195				.152	.142		.156					L84P-1	
5		6 (.138)	1.155		.227				.152	.142		.250					L81P-1	
6		8 (.164)	1.155		.227				.178	.168		.250					L82P-1	
7		8 (.164)	1.405		.310				.178	.168		.281					L80P-1	
8	20	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .042	.122	.114	.130	.125	.048 .042	.237	RED	RED	L86P-1	1-2
9		4 (.112)	1.061		.195				.122	.114		.156					L85P-1	
10		5 (.125)	.905		.143				.137	.129		.125					L83P-1	
11		6 (.138)	1.061		.195				.152	.142		.156					L84P-1	
12		6 (.138)	1.155		.227				.152	.142		.250					L81P-1	
13		8 (.164)	1.155		.227				.178	.168		.250					L82P-1	
14		8 (.164)	1.405		.310				.178	.168		.281					L80P-1	
15	18	4 (.112)	.842	.156	.143	.037 .029	.215 .190	.070 .052	.122	.114	.150	.125	.056 .052	.237	RED	WHITE	L86P-1	1-2
16		4 (.112)	1.061		.195				.122	.114		.156					L85P-1	
17		5 (.125)	.905		.143				.137	.129		.125					L83P-1	
18		6 (.138)	1.061		.195				.152	.142		.156					L84P-1	
19		6 (.138)	1.155		.227				.152	.142		.250					L81P-1	
20		8 (.164)	1.155		.227				.178	.168		.250					L82P-1	
21		8 (.164)	1.405		.310				.178	.168		.281					L80P-1	
22	16	4 (.112)	.842	.156	.143	.037 .029	.240 .210	.090 .059	.122	.114	.110	.125	.063 .059	.237	BLUE	BLUE	L86P-2	2 1/2 - 4
23		4 (.112)	1.061		.195				.122	.114		.156					L85P-2	
24		5 (.125)	.905		.143				.137	.129		.125					L83P-2	
25		6 (.138)	1.061		.195				.152	.142		.156					L84P-2	
26		6 (.138)	1.155		.227				.152	.142		.250					L81P-2	
27		8 (.164)	1.155		.227				.178	.168		.250					L82P-2	
28		8 (.164)	1.405		.310				.178	.168		.281					L80P-2	
29	14	4 (.112)	.842	.156	.143	.037 .029	.240 .210	.090 .074	.122	.114	.130	.125	.078 .074	.237	BLUE	GREEN	L86P-2	2 1/2 - 4
30		4 (.112)	1.061		.195				.122	.114		.156					L85P-2	
31		5 (.125)	.905		.143				.137	.129		.125					L83P-2	
32		6 (.138)	1.061		.195				.152	.142		.156					L84P-2	
33		6 (.138)	1.155		.227				.152	.142		.250					L81P-2	
34		8 (.164)	1.155		.227				.178	.168		.250					L82P-2	
35		8 (.164)	1.405		.310				.178	.168		.281					L80P-2	
36	12	4 (.112)	1.062	.234	.143	.046 .035	.300 .275	.135 .091	.122	.114	.150	.125	.095 .091	.237	YELLOW	YELLOW	L86P-3	6-9
37		4 (.112)	1.281		.195				.122	.114		.156					L85P-3	
38		5 (.125)	1.124		.143				.137	.129		.125					L83P-3	
39		6 (.138)	1.281		.195				.152	.142		.156					L84P-3	
40		6 (.138)	1.359		.227				.152	.142		.250					L81P-3	
41		8 (.164)	1.359		.227				.178	.168		.250					L82P-3	
42		8 (.164)	1.609		.310				.178	.168		.281					L80P-3	
43	10	4 (.112)	1.062	.234	.143	.046 .037	.300 .275	.135 .115	.122	.114	.180	.125	.118 .115	.237	YELLOW	BROWN	L86P-3	6-9
44		4 (.112)	1.281		.195				.122	.114		.156					L85P-3	
45		5 (.125)	1.124		.143				.137	.129		.125					L83P-3	
46		6 (.138)	1.281		.195				.152	.142		.156					L84P-3	
47		6 (.138)	1.359		.227				.152	.142		.250					L81P-3	
48		8 (.164)	1.359		.227				.178	.168		.250					L82P-3	
49		8 (.164)	1.609		.310				.178	.168		.281					L80P-3	



AEROSPACE STANDARD

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

AS7928™/9
SHEET 2 OF 5

REV.
C

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.

TIN PLATED (WHISKER RESISTANT) FINISH SHALL BE PER ASTM B545 ALLOYED WITH 3% BY WEIGHT, MINIMUM LEAD. PLATING THICKNESS SHALL BE .0002 INCHES MINIMUM (REFER TO AS7928 AND GEIA-STD-0005-02 FOR MORE DETAILS).

3. IDENTIFICATION OF PRODUCT MARKING:

TIN WHISKER RESISTANT PLATING SHALL BE IDENTIFIED BY A BLUE COLOR DOT OR DASH LOCATED NEAR THE INSPECTION HOLE AS SHOWN IN FIGURE 1.

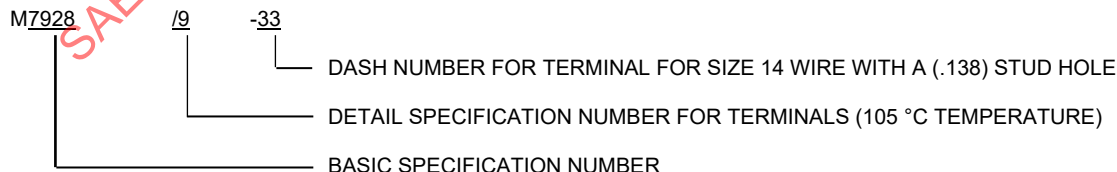
WIRE SIZE COLOR IDENTIFICATION SHALL BE IN ACCORDANCE WITH FIGURE 1 AND TABLE 1.

THE WIRE SIZE 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.

	AEROSPACE STANDARD	AS7928™/9 SHEET 3 OF 5	REV. C
	TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, TIN WHISKER RESISTANT FOR THIN WALL WIRE, TYPE II, CLASS 1 FOR 105 °C TOTAL CONDUCTOR TEMPERATURE		