FEDERAL SUPPLY CLASS
5940

RATIONALE

REVISION INCLUDES NEW CRIMP TOOLS AND EDITORIAL CHANGES AS NEEDED.

NOTICE

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

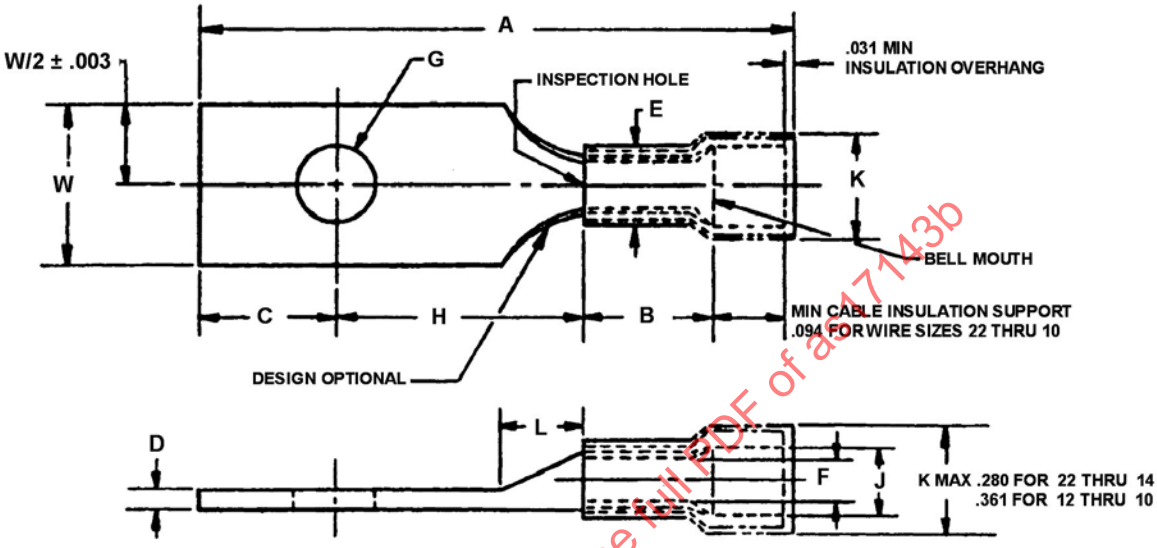


FIGURE 1

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

1. TERMINAL CONFIGURATION:

   TERMINAL CONFIGURATION IS AS SHOWN IN FIGURE 1 AND TABLE 1. DESIGN IS OPTIONAL WITHIN THE DIMENSIONS SHOWN. DIMENSIONS ARE INCHES. STUD SIZE DIMENSIONS ARE SHOWN IN PARENTHESES.

   INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE-PIECE CONSTRUCTION.

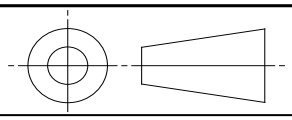
   CABLE INSERTION SHALL BE FACILITATED BY BELL MOUTH DESIGN.

   ALL BURRS AND SHARP EDGES SHALL BE REMOVED.

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

ISSUED 1997-08 REVISED 2015-12 REAFFIRMED 2020-11

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928

SAE INTERNATIONAL

AEROSPACE STANDARD

(R) TERMINAL, LUG, CRIMP STYLE, COPPER, INSULATED, RECTANGULAR TONGUE, TYPE II, CLASS 1 FOR 105 °C TOTAL CONDUCTOR TEMPERATURE

TABLE 1 - TERMINAL CONFIGURATION

DASH NO.	WIRE SIZE	STUD SIZE (DEC)	A MAX	B MIN	C ±.010	D	E DIA	F DIA	G DIA	H MIN	J MIN DIA	L MAX	W ±.005	INSULATION SLEEVE COLOR
1	22-18	8 (.164)	1.359	.156	.310	.037 .029	.215 .190	.070 .052	.178 .168	.621	.120	.281	.390	RED
2	16-14		1.359	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
3	12-10		1.531	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
4	22-18	6 (.138)	1.109	.156	.227	.037 .029	.215 .190	.070 .052	.152 .142	.465	.120	.250	.302	RED
5	16-14		1.109	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
6	12-10		1.281	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
7	22-18	8 (.164)	1.109	.156	.227	.037 .029	.215 .190	.070 .052	.178 .168	.465	.120	.250	.302	RED
8	16-14		1.109	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
9	12-10		1.281	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
10	22-18	5 (.125)	.859	.156	.143	.037 .029	.215 .190	.070 .052	.137 .129	.277	.120	.125	.277	RED
11	16-14		.859	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
12	12-10		1.046	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
13	22-18	6 (.138)	1.015	.156	.195	.037 .029	.215 .190	.070 .052	.152 .142	.404	.120	.156	.237	RED
14	16-14		1.015	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
15	12-10		1.203	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
16	22-18	4 (.112)	1.015	.156	.195	.037 .029	.215 .190	.070 .052	.122 .114	.404	.120	.156	.237	RED
17	16-14		1.015	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
18	12-10		1.203	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
19	22-18	4 (.112)	.796	.156	.143	.037 .029	.215 .190	.070 .052	.122 .114	.237	.120	.125	.237	RED
20	16-14		.796	.156		.037 .029	.240 .210	.090 .081			.153			BLUE
21	12-10		.984	.234		.046 .035	.300 .275	.135 .129			.210			YELLOW
22	22-18	6 (.138)	.859	.156	.125	.037 .029	.215 .190	.070 .052	.152 .142	.312	.120	.156	.250	RED
23	22-18	6 (.138)	.796	.156	.140	.037 .029	.215 .190	.070 .052	.152 .142	.203	.120	.156	.296	RED
24	22-18	8 (.164)	.984	.156	.187	.037 .029	.215 .190	.070 .052	.178 .168	.375	.120	.156	.312	RED
25	22-18	10 (.190)	.906	.156	.203	.037 .029	.215 .190	.070 .052	.205 .195	.281	.120	.156	.375	RED
26	26-24	2 (.086)	.744	.126	.110	.028 .022	.215 .190	.033 .027	.098 .090	.203	.084	.125	.182	YELLOW
27	26-24	4 (.112)	.811	.126	.143	.028 .022	.215 .190	.033 .027	.122 .114	.237	.084	.125	.237	YELLOW
28	22-18	2 (.086)	.744	.156	.110	.037 .029	.215 .190	.070 .052	.098 .090	.203	.120	.125	.182	RED

2. MATERIAL:

MATERIALS SHALL BE IN ACCORDANCE WITH AS7928.
FINISH SHALL BE TIN PLATED.

3. CRIMPING TOOLS:

CRIMPING TOOLS SHALL BE AS SPECIFIED TABLE 2.

TABLE 2 - TERMINAL CRIMPING TOOLS

TERMINAL SIZE (SEE TABLE 1)	CRIMP TOOL	CRIMP DIE
12-10	M22520/5-01	M22520/5-100 DIE - YELLOW
	M22520/41-01 DIE- NO COLOR 1/	N/A
	M22520/5-01	M22520/5-108 DIE – YELLOW 1/
	M22520/10-01	M22520/10-100
16-14	M22520/40-01 DIE - BLUE 1/	N/A
	M22520/5-01	M22520/5-107 DIE - BLUE 1/
22-18	M22520/40-01 DIE - RED 1/	N/A
	M22520/5-01	M22520/5-106 DIE - RED 1/
22-14	M22520/5-01	M22520/5-100 DIE - WHITE
	M22520/10-01	M22520/10-101 DIE - WHITE

1/ TOOL WITH WIRE INSULATION SUPPORT CUP CRIMPS (WIRE SIZE 12-22).

4. QUALIFICATION:

FOR QUALIFICATION TESTING THE TERMINALS SHALL BE TESTED WITH MIL-DTL-915 CABLE.

5. PART IDENTIFICATION NUMBER (PIN):

MS17143 -1
I I
I I____ DASH NUMBER (SEE TABLE 1)
I_____ AS7928 DETAIL SPECIFICATION NUMBER

6. APPLICATION:

MS17143 TERMINALS ARE DESIGNED FOR USE WITH A-A-59125 TERMINAL BOARDS. THE COMBINATION OF DIMENSIONS H, C, AND L PERMITS THE WIRE TERMINAL STYLE TO BE STACKED ON ONE STUD ON THE TERMINAL BOARDS LISTED IN TABLE 3.

TABLE 3 - TERMINAL BOARD APPLICATION

STYLE	TERMINAL BOARD A-A-59125	QUANTITY OF WIRED TERMINALS
L80	-/10	4
L81	-/12	4
L82	-/19	4
L83	-/14	2
L84	-/16	4
L85	-/25	3
L86	-/24	2

FOR REFERENCE PURPOSE THE TERMINAL TONGUE SHAPE APPLICABLE TO TERMINAL AND MIL-DTL-915 CABLE SIZES ARE SHOWN IN TABLE 4.