

REV.
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SAE AS7928/4

FEDERAL SUPPLY CLASS
5940

RATIONALE

SPECIFICATION IS REVISED TO INCORPORATE THE AMENDMENT, REMOVE GOVERNMENT JARGON, UPDATE REFERENCES AND INCLUDE MINOR TECHNICAL CHANGES AS NEEDED.

NOTICE

THE REQUIREMENTS FOR PROCURING THE CONTACTS DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION AND THE LATEST ISSUE OF: SAE AS7928

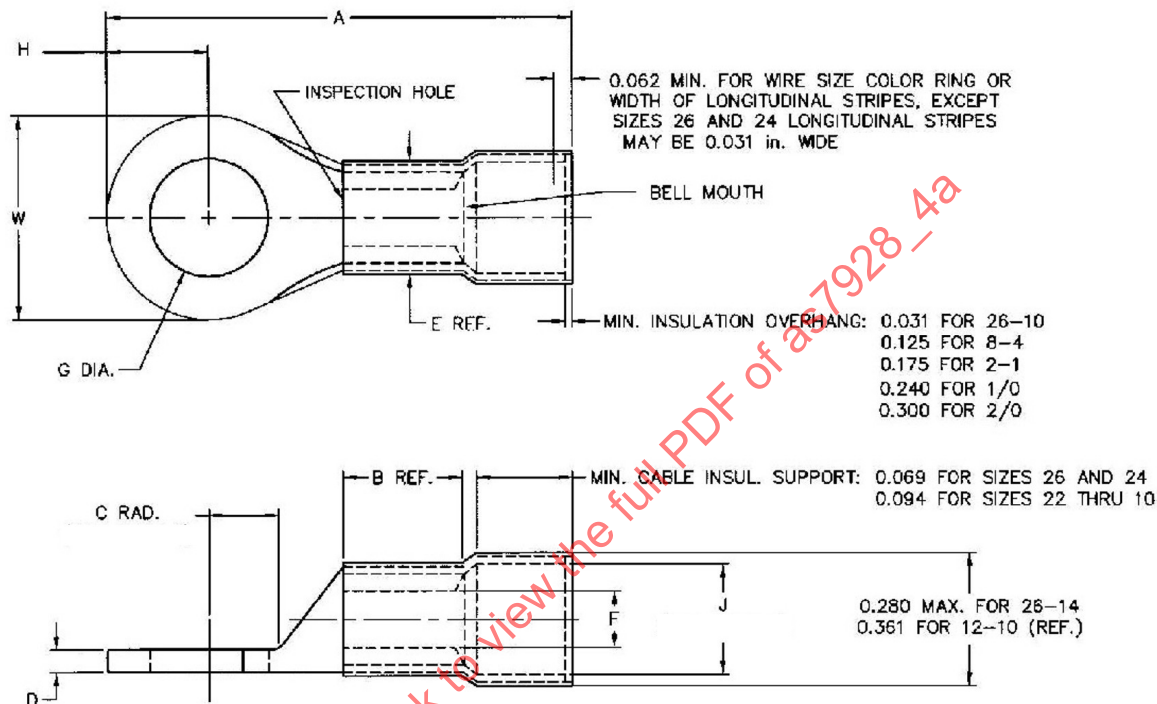
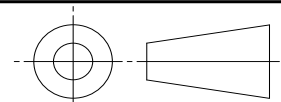


FIGURE 1 - AS7928/4 TERMINAL

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) TERMINALS, LUG AND SPLICES, CONDUCTOR, CRIMP STYLE, COPPER TERMINAL, LUG, INSULATED, RING TONGUE, BELL-MOUTHED, TYPE II, CLASS 1 (FOR 150°C TOTAL CONDUCTOR TEMPERATURE)

SAE AS7928/4
SHEET 1 OF 4

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A

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ISSUED 1999-04 REVISED 2009-10

TABLE 1 - DASH NUMBERS AND CHARACTERISTICS

DASH NO.	TERMINAL SIZE	STUD SIZE	A MAX	B REF	C MIN RAD	D		E DIA REF	F DIA	G DIA		J MIN DIA	W		COLOR OF CIRCULAR RING OR LONGITUDINAL STRIPES				
						MAX	MIN			MAX	MIN		MAX	MIN					
143	26 - 24	2 (0.086)	0.740	0.126	0.133	0.028	0.022	0.215 0.190	0.033 0.027	0.098	0.090	0.084	0.210	0.133	Yellow				
144		4 (0.112)	0.755		0.171					0.122	0.114		0.260	0.193					
145		6 (0.138)	0.855		0.202					0.152	0.142		0.330	0.245					
146		8 (0.164)			0.178					0.168									
147		10 (0.190)			0.203					0.193									
159	22 - 18	2 (0.086)	0.755	0.156	0.115	0.035	0.027	0.215 0.190	0.073 0.052	0.098	0.090	0.120	0.230	0.193	Red				
148		4 (0.112)			0.125					0.122	0.114			0.210					
101		6 (0.138)			0.202					0.152	0.142		0.260	0.245					
102		6 (0.138)	0.865		0.234					0.178	0.168		0.320	0.305					
149		8 (0.164)	0.910													0.203	0.193	0.473	0.450
103		10 (0.190)	1.090													0.275	0.260	0.540	0.520
150		1/4 (0.250)			0.296					0.338	0.323		0.720	0.705					
104		5/16 (0.312)			0.328					0.400	0.385		0.720	0.705					
105		3/8 (0.375)	1.320		0.453					0.525	0.510		0.720	0.705					
151		1/2 (0.500)	1.320		0.453					0.525	0.510		0.720	0.705					
152	16 - 14	4 (0.112)	0.774	0.156	0.125	0.035	0.029	0.240 0.210	0.095 0.081	0.122	0.114	0.153	0.260	0.240	Blue				
106		6 (0.138)			0.202					0.152	0.147		0.317	0.302					
107		6 (0.138)	0.910		0.234					0.178	0.168		0.473	0.430					
153		8 (0.164)	0.915		0.265					0.203	0.193					0.540	0.520		
108		10 (0.190)			0.296					0.275	0.260							0.720	0.705
154		1/4 (0.250)			0.328					0.338	0.323		0.540	0.520					
109		5/16 (0.312)	1.085		0.400					0.385	0.720					0.705			
110		3/8 (0.375)	1.225		0.525					0.510							0.720	0.705	
155		1/2 (0.500)	1.320		0.525					0.510			0.720	0.705					
111	12 - 10	6 (0.138)	1.120	0.234	0.202	0.043	0.037	0.300 0.275	0.139 0.129	0.152	0.142	0.210			0.380	0.365			Yellow
156		8 (0.164)			0.234					0.178	0.168						0.536	0.516	
112		10 (0.190)			0.265					0.203	0.193		0.598	0.573					
157		1/4 (0.250)	1.322		0.296					0.275	0.260				0.720	0.705			
113		5/16 (0.312)	1.414		0.328					0.338	0.323						0.720	0.705	
114		3/8 (0.375)			0.400					0.385	0.720		0.705						
158		1/2 (0.500)			0.453					0.525				0.510	0.720	0.705			
115	8	10 (0.190)	1.402	0.315	0.234	0.084	0.038	0.350 0.300	0.186 0.176	0.203		0.193		0.257			0.429	0.386	Red
116		1/4 (0.250)	1.446		0.265					0.275	0.260	0.590	0.547						
117		5/16 (0.312)	1.544		0.296					0.338	0.323				0.590	0.547			
118		3/8 (0.375)			0.328					0.400	0.385						0.590	0.547	
119	6	10 (0.190)	1.599	0.375	0.238	0.084	0.043	0.419 0.360	0.232 0.222	0.203	0.193	0.300	0.503	0.460					Blue
120		1/4 (0.250)			0.265					0.275	0.260		0.623	0.580					
121		5/16 (0.312)	1.762		0.305					0.338	0.323				0.623	0.580			
122		3/8 (0.375)			0.328					0.400	0.385						0.623	0.580	

TABLE 1 - DASH NUMBERS AND CHARACTERISTICS (CONTINUED)

DASH NO.	TERMINAL SIZE STUD SIZE	STUD SIZE	A MAX	B REF	C MIN RAD	D		E DIA REF	F DIA	G DIA		J MIN DIA	W		COLOR OF CIRCULAR RING OR LONGITUDINAL STRIPES
						MAX	MIN			MAX	MIN		MAX	MIN	
123	4	1/4 (0.250)	1.812	0.437	0.276	0.096	0.047	<u>0.500</u> 0.425	<u>0.290</u> 0.280	0.275	0.260	0.370	0.570	0.480	YELLOW
124		5/16 (0.312)	1.879		0.308					0.338	0.323		0.648	0.605	
125		3/8 (0.375)			0.328					0.400	0.385				
126	2	1/4 (0.250)	2.069	0.505		0.109	0.054	<u>0.560</u> 0.510	<u>0.365</u> 0.355	0.275	0.260	0.453	0.711	0.665	Red
127		5/16 (0.375)			0.343					0.400	0.385		0.804	0.740	
128		3/8 (0.500)	2.269		0.453					0.525	0.510				
129	1	1/4 (0.250)	2.150	0.565	0.383	0.125	0.070	<u>0.620</u> 0.560	<u>0.398</u> 0.388	0.275	0.260	0.500	0.793	0.740	White
130		3/8 (0.375)								0.400	0.385		0.987		
131		1/2 (0.500)	2.370		0.453					0.525	0.510				
132	0	1/4 (0.250)	2.401	0.630		0.125	0.070	<u>0.685</u> 0.625	<u>0.458</u> 0.438	0.275	0.260	0.550	0.853	0.810	Blue
133		3/8 (0.375)			0.418					0.400	0.385		0.903	0.860	
134		1/2 (0.500)	2.525		0.453					0.525	0.510				
135	00	5/16 (0.312)	2.750	0.700		0.129	0.075	<u>0.755</u> 0.685	<u>0.520</u> 0.500	0.338	0.323	0.610	0.956	0.913	Yellow
136		3/8 (0.375)			0.473					0.400	0.385				
137		1/2 (0.500)								0.525	0.510				

REQUIREMENTS

1. DESIGN AND CONFIGURATION (SEE FIGURE 1 AND TABLE 1):

DIMENSIONS ARE IN INCHES. MAX AND MIN DIMENSIONS DUE TO OVALIZATION MUST BE WITHIN 3% OF SPECIFICATION REQUIREMENTS. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN.

THE "C" MIN DIMENSION IS MIN WASHER CLEARANCE RADIUS.

INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE PIECE CONSTRUCTION.

2. MATERIAL:

INSULATION SLEEVE SHALL BE IN ACCORDANCE WITH AS7928. SLEEVE COLOR SHALL BE CLEAR (UNCOLORED).

FINISH SHALL BE TIN-PLATED IN ACCORDANCE WITH ASTM-B545 OR NICKEL-PLATED IN ACCORDANCE WITH AMS-QQ-N-290, CLASS 1 WITH A THICKNESS OR GRADE SUFFICIENT TO MEET THE PERFORMANCE REQUIREMENTS OF AS7928.

3. IDENTIFICATION OF PRODUCT MARKING:

MANUFACTURER IDENTIFICATION AND PART NUMBER MARKING SHALL BE AS SPECIFIED IN AS7928.

COLOR RINGS OR LONGITUDINAL STRIPES SHALL BE LOCATED AS SHOWN IN FIGURE 1. COLOR OF CIRCULAR RING OR LONGITUDINAL STRIPES SHALL BE AS SPECIFIED IN TABLE I AND SHALL BE IN ACCORDANCE WITH EIA STANDARD RS359.

COLOR RINGS MUST COVER A MINIMUM OF 315° OF THE CIRCUMFERENCE.

LONGITUDINAL STRIPES SHALL BE 2 OR MORE AND EQUALLY SPACED ON THE INSULATION PORTION OF THE TERMINAL. THE STRIPES MUST EXTEND TO WITHIN 1/16 INCHES OF THE ENDS OF THE INSULATION AND MUST NOT OBLITERATE THE BASIC SLEEVE COLOR.