

REV.
C

AS7928™/11

RATIONALE

REVISION INCLUDES NEW CRIMP TOOLS. MINOR EDITORIAL CHANGES WERE MADE AS NEEDED.

NOTICE

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

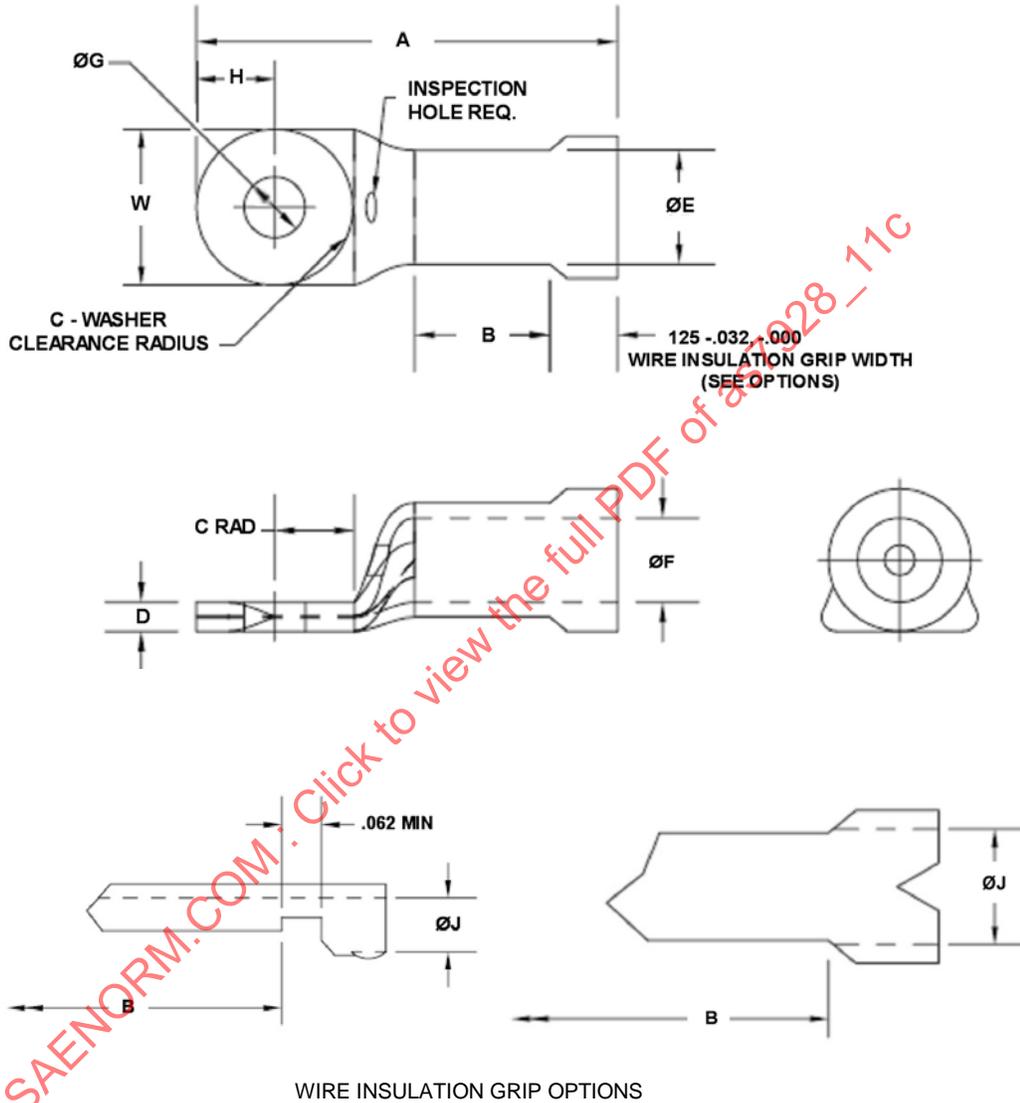
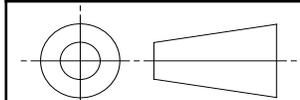


FIGURE 1 - TERMINAL AND WIRE INSULATION GRIPS FOR WIRE SIZE 22 THRU 14

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928



AEROSPACE STANDARD

(R) TERMINAL, LUG, CRIMP STYLE, COPPER, UNINSULATED, RING TONGUE, TIN WHISKER RESISTANT, TYPE I, CLASS I, FOR 175 °C TOTAL CONDUCTOR TEMPERATURE

AS7928™/11
SHEET 1 OF 7

REV.
C

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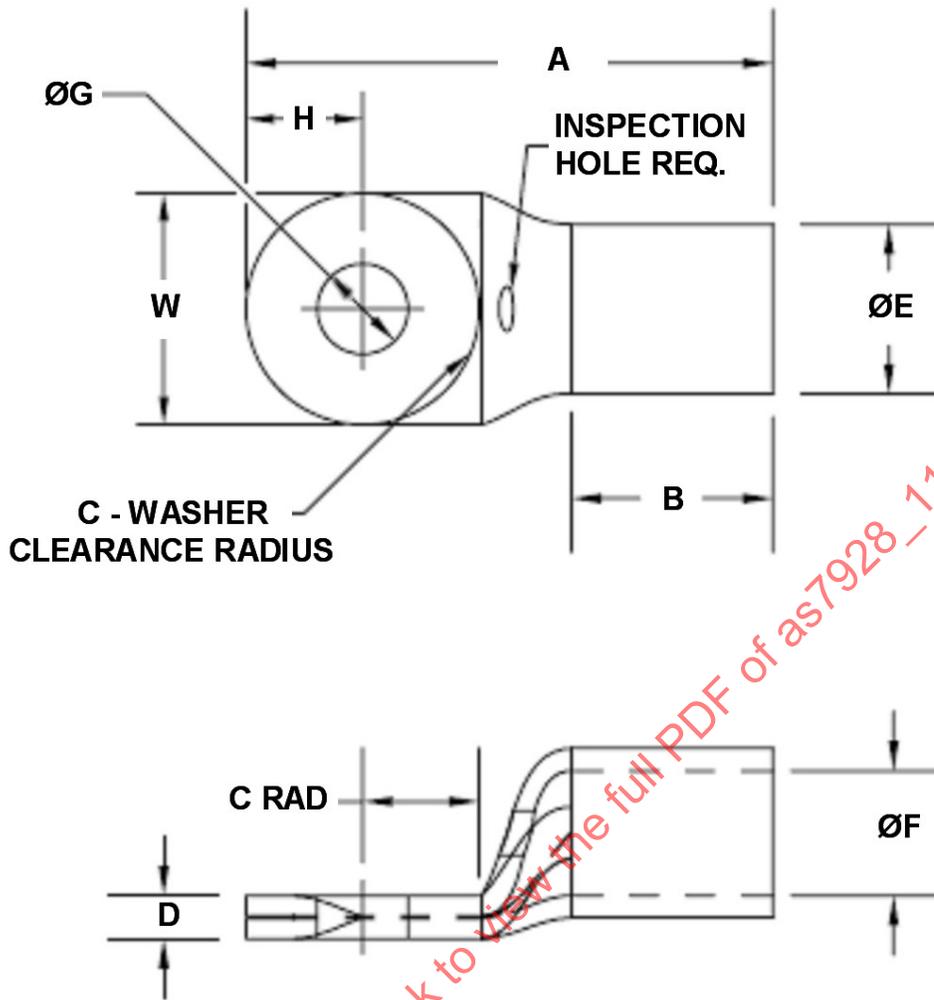


FIGURE 2 - TERMINALS, FOR WIRE SIZE 12 THRU 0000 (NO WIRE INSULATION GRIP)

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	AEROSPACE STANDARD	AS7928™/11 SHEET 2 OF 7	REV. C
	(R) TERMINAL, LUG, CRIMP STYLE, COPPER, UNINSULATED, RING TONGUE, TIN WHISKER RESISTANT, TYPE I, CLASS I, FOR 175 °C TOTAL CONDUCTOR TEMPERATURE		

TABLE 1 - DIMENSIONS

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C MIN RADIUS	D		E DIA <u>2/</u>	F DIA <u>3/</u>	G DIA		J DIA MIN <u>4/</u>	W & H <u>1/</u>	
						MAX	MIN			MAX	MIN		MAX	MIN
167	22-18	2 (0.086)	.890	.250	.115	.045	.023	.140 .115	.073 .052	.098	.090	.120	.260	.178
138		4 (0.112)	.890		.125					.122	.114		.260	.178
101		6 (0.138)	.890		.125					.152	.142		.260	.210
102		10 (0.190)	.968		.172					.203	.193		.320	.305
161		5/16 (0.312)	1.187		.284					.338	.323		.540	.450
125		3/8 (0.375)	1.308		.328					.400	.385		.540	.520
162		1/2 (0.500)	1.530		.378					.525	.510		.733	.703
139		16-14	4 (0.112)		.947					.250	.125		.053	.029
103	6 (0.138)		.955	.172	.152	.142	.327	.297						
126	6 (0.138)		.947	.125	.152	.142	.266	.234						
104	10 (0.190)		.955	.172	.203	.193	.327	.234						
163	5/16 (0.312)		1.249	.284	.338	.323	.540	.450						
127	3/8 (0.375)		1.290	.328	.400	.385	.540	.520						
164	1/2 (0.500)		1.593	.378	.525	.510	.733	.703						
165	12-10		6 (0.138)	.955	.250	.202	.080	.037	.230 .210		.139 .129	.152		
105		10 (0.190)	.969	.172		.203				.193		.391	.365	
106		5/16 (0.312)	1.156	.296		.338				.323		.547	.485	
128		3/8 (0.375)	1.172	.328		.400				.385		.598	.536	
166		1/2 (0.500)	1.718	.378		.525				.510		.733	.703	
140		8	8 (0.164)	1.150		.315				.234		.084	.038	.272 .260
107	10 (0.190)		1.150	.234	.203		.193	.429	.386					
141	1/4 (0.250)		1.219	.265	.275		.260	.478	.435					
108	5/16 (0.312)		1.297	.296	.338		.323	.590	.547					
129	3/8 (0.375)		1.297	.328	.400		.385	.590	.547					
142	1/2 (0.500)		1.545	.440	.525		.510	.833	.680					
130	6		10 (0.190)	1.312	.375		.238	.084	.043	.316 .295	.232 .222			
109		1/4 (0.250)	1.312	.265		.275	.260					.503	.460	
131		5/16 (0.312)	1.437	.305		.338	.323					.623	.580	
110		3/8 (0.375)	1.437	.328		.400	.385					.623	.580	
143		1/2 (0.500)	1.676	.440		.525	.510					.833	.700	

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TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C MIN RADIUS	D		E DIA 2/	F DIA 3/	G DIA		J DIA MIN 4/	W & H 1/	
						MAX	MIN			MAX	MIN		MAX	MIN
144	4	10 (0.190)	1.400	.437	.276	.096	.047	.380 .365	.290 .280	.203	.193		.628	.480
111		1/4 (0.250)	1.400		.276					.275	.260			
132		5/16 (0.312)	1.489		.308					.338	.323			
112		3/8 (0.375)	1.489		.328					.400	.385			
145		1/2 (0.500)	1.721		.440					.525	.510			
146	2	10 (0.190)	1.732	.505	.343	.109	.473 .450	.365 .355		.203	.193		.711	.668
113		1/4 (0.250)								.275	.260			
147		5/16 (0.312)								.338	.323			
114		3/8 (0.375)								.400	.385			
148		7/16 (0.437)								1.895	.463		.448	
133		1/2 (0.500)								1.895	.453		.525	.510
115	1	1/4 (0.250)	1.845	.565	.383	.125	.070	.527 .505	.398 .388	.275	.260		.783	.740
149		5/16 (0.312)			.383					.338	.323			
116		3/8 (0.375)			.383					.400	.385			
150		7/16 (0.437)			1.980					.463	.448			
134		1/2 (0.500)			1.980					.453	.525		.510	
117	0	1/4 (0.250)	2.045	.63	.418	.125	.070	.578 .558	.458 .438	.275	.260		.853	.810
151		5/16 (0.312)			.418					.338	.323			
118		3/8 (0.375)			.418					.400	.385			
152		7/16 (0.437)			2.092					.463	.448			
135		1/2 (0.500)			2.092					.453	.525		.510	
153	00	1/4 (0.250)	2.320	.70	.473	.129	.075	.640 .620	.520 .500	.275	.260		.956	.913
119		5/16 (0.312)								.338	.323			
120		3/8 (0.375)								.400	.385			
154		7/16 (0.437)								.463	.448			
136		1/2 (0.500)								.525	.510			



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AS7928™/11
SHEET 4 OF 7

REV. C

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C MIN RADIUS	D		E DIA <u>2/</u>	F DIA <u>2/</u>	G DIA		J DIA MIN <u>2/</u>	W & H <u>1/</u>	
						MAX	MIN			MAX	MIN		MAX	MIN
155	000	5/16 (0.312)	2.455	.718	.513	.140	.085	.714 .690	.577 .557	.338	.323		1.053	1.010
121		3/8 (0.375)								.400	.385			
156		7/16 (0.437)								.463	.448			
122		1/2 (0.500)								.525	.510			
157	0000	5/16 (0.312)	2.755	.734	.560	.150	.095	.784 .760	.645 .622	.338	.323		1.148	1.095
123		3/8 (0.375)								.400	.385			
158		7/16 (0.437)								.463	.448			
124		1/2 (0.500)								.525	.510			
159		5/8 (0.625)								.666	.651			
160		3/4 (0.750)	2.955	.785	.770	1.268	1.200							
137		7/8 (0.875)	2.971	.765	.765			1.268	1.200					

- 1/ H MAX AND MIN DIMENSIONS SHALL BE ONE-HALF OF THE W MAX AND MIN DIMENSIONS, RESPECTIVELY.
 2/ ØE IS THE OUTSIDE INSULATED DIAMETER OF THE CRIMP ZONE DEFINED BY LENGTH DIMENSION B.
 3/ ØF IS THE INSIDE COPPER BARREL DIAMETER OF THE CRIMP ZONE DEFINED BY LENGTH DIMENSION B.
 4/ ØJ IS THE MINIMUM INSIDE DIAMETER OF THE INSULATION GRIP FOR THE .125 INCH LENGTH DIMENSION. ØJ MINIMUM IS SLIGHTLY LARGER ØE MINIMUM.

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

- CONFIGURATIONS (SEE FIGURES 1 AND 2 AND TABLE 1): DIMENSIONS ARE IN INCHES. CONTOUR OF THE TERMINAL MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGNS PROVIDED DIMENSIONS ARE MAINTAINED. AVERAGE DIAMETER OF E AND F SHALL BE WITHIN REQUIRED DIMENSIONS AND THE MAX AND MIN DIMENSION VALUES DUE TO OVALIZATION SHALL BE WITHIN 3% OF THE DIMENSION REQUIREMENT. A SPLIT BARREL CONSTRUCTION SHALL BE PERMANENTLY SEALED AND SHALL NOT OPEN AFTER CRIMPING.
- BASE MATERIAL: COPPER (SEE AS7928 FOR MATERIAL DETAILS) OR COPPER ALLOY. MATERIAL SHALL HAVE ADEQUATE ELECTRICAL CONDUCTIVITY AND SHALL BE SUFFICIENTLY STRONG TO RESIST CRACKING AFTER FORMING AND CRIMPING. COPPER MAY BE GILDING METAL, 95% COPPER AND 5% ZINC.
- FINISH (WHISKER RESISTANT): TIN PLATED, GEIA-STD-0005-2, ALLOYED WITH 3% LEAD BY WEIGHT. PLATING THICKNESS SHALL BE .0002 INCH MINIMUM (SEE APPLICATION NOTE FOR MORE DETAILS).

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