

AS7928/12

RATIONALE

TIN WHISKER RESISTANT TERMINALS ARE REQUIRED FOR SENSITIVE LOW SIGNAL AND SPACE APPLICATIONS.

NOTICE

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

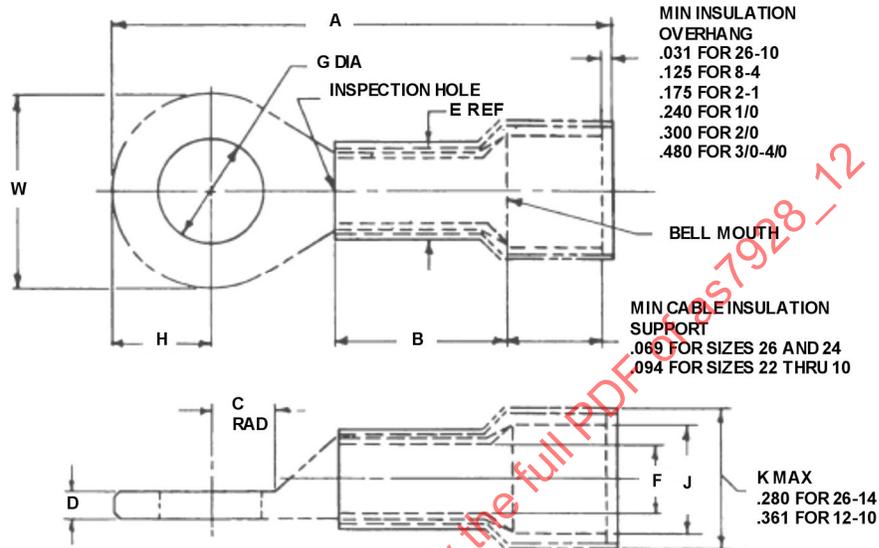
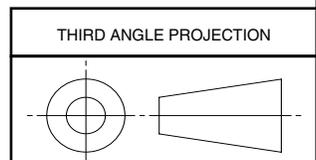


FIGURE 1 - TERMINAL CONSTRUCTION

NOTES:

1. DIMENSIONS IN INCHES.
2. CONTOUR INDICATED BY PHANTOM LINES MAY VARY FROM THAT SHOWN TO SUIT INDIVIDUAL MANUFACTURER'S DESIGN.
3. INSULATION SUPPORT AND TERMINAL BARREL MAY BE MULTIPLE PIECE CONSTRUCTION.
4. WIRE INSERTION IS FACILITATED BY BELL MOUTH.
5. DIMENSION "C RAD" REPRESENTS THE MINIMUM WASHER CLEARANCE RADIUS.
6. DIMENSION "J" REPRESENTS THE MINIMUM OPENING THAT WILL ACCEPT THE FINISHED WIRE.



CUSTODIAN: SAE AE-8/AE-8C2

PROCUREMENT SPECIFICATION: AS7928



AEROSPACE STANDARD

TERMINAL, LUG, CRIMP STYLE, COPPER, INSULATED, RING TONGUE, BELL-MOUTHED, TIN WHISKER, TYPE II, CLASS 1, (FOR 105 °C TOTAL CONDUCTOR TEMPERATURE)

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SHEET 1 OF 5

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ISSUED 2007-07

TABLE 1 - DIMENSIONS

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C MIN RAD	D		E DIA	F DIA	G DIA		J MIN DIA	W		INSULATING SLEEVE COLOR
						MAX	MIN			MAX	MIN		MAX	MIN	
143	26-24	2	0.086	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	26-24	4	0.112	0.126	0.171	0.028	0.022	0.215/0.190	0.033/0.027	0.122	0.114	0.084	0.260	0.193	Yellow
145	26-24	6	0.138	0.126	0.202	0.028	0.022	0.215/0.190	0.033/0.027	0.152	0.142	0.084	0.260	0.245	Yellow
146	26-24	8	0.164	0.126	0.202	0.028	0.022	0.215/0.190	0.033/0.027	0.178	0.168	0.084	0.330	0.245	Yellow
147	26-24	10	0.190	0.126	0.227	0.028	0.022	0.215/0.190	0.033/0.027	0.203	0.193	0.084	0.330	0.245	Yellow
159	22-18	2	0.086	0.156	0.115	0.035	0.027	0.215/0.190	0.073/0.052	0.098	0.090	0.120	0.230	0.198	Red
148	22-18	4	0.112	0.156	0.125	0.035	0.027	0.215/0.190	0.073/0.052	0.122	0.114	0.120	0.230	0.210	Red
101	22-18	6	0.138	0.156	0.125	0.035	0.027	0.215/0.190	0.073/0.052	0.152	0.142	0.120	0.230	0.210	Red
102	22-18	6	0.138	0.156	0.202	0.035	0.027	0.215/0.190	0.073/0.052	0.152	0.142	0.120	0.260	0.245	Red
149	22-18	8	0.164	0.156	0.202	0.035	0.027	0.215/0.190	0.073/0.052	0.178	0.168	0.120	0.320	0.305	Red
103	22-18	10	0.190	0.156	0.234	0.035	0.027	0.215/0.190	0.073/0.052	0.203	0.193	0.120	0.320	0.305	Red
150	22-18	1/4	0.250	0.156	0.265	0.035	0.027	0.215/0.190	0.073/0.052	0.275	0.260	0.120	0.473	0.450	Red
104	22-18	5/16	0.313	0.156	0.296	0.035	0.027	0.215/0.190	0.073/0.052	0.338	0.323	0.120	0.473	0.450	Red
105	22-18	3/8	0.375	0.156	0.328	0.035	0.027	0.215/0.190	0.073/0.052	0.400	0.385	0.120	0.540	0.520	Red
151	22-18	1/2	0.500	0.156	0.453	0.035	0.027	0.215/0.190	0.073/0.052	0.525	0.510	0.120	0.720	0.705	Red
152	16-14	4	0.112	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	16-14	6	0.138	0.156	0.125	0.035	0.029	0.240/0.210	0.095/0.081	0.152	0.142	0.153	0.260	0.240	Blue
107	16-14	6	0.138	0.156	0.202	0.035	0.029	0.240/0.210	0.095/0.081	0.152	0.142	0.153	0.317	0.302	Blue
153	16-14	8	0.164	0.156	0.202	0.035	0.029	0.240/0.210	0.095/0.081	0.178	0.168	0.153	0.317	0.302	Blue
108	16-14	10	0.190	0.156	0.234	0.035	0.029	0.240/0.210	0.095/0.081	0.203	0.193	0.153	0.317	0.302	Blue

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C		D		E DIA	F DIA	G DIA		J MIN DIA	W		INSULATING SLEEVE COLOR
					MIN RAD	MAX RAD	MAX	MIN			MAX	MIN		MAX	MIN	
154	16-14	1/4	1.085	0.156	0.265	0.035	0.029	0.240/0.210	0.095/0.081	0.275	0.260	0.153	0.473	0.450	Blue	
109	16-14	5/16	1.085	0.156	0.296	0.035	0.029	0.240/0.210	0.095/0.081	0.338	0.323	0.153	0.473	0.450	Blue	
110	16-14	3/8	1.225	0.156	0.328	0.035	0.029	0.240/0.210	0.095/0.081	0.400	0.385	0.153	0.540	0.520	Blue	
155	16-14	1/2	1.320	0.156	0.453	0.035	0.029	0.240/0.210	0.095/0.081	0.525	0.510	0.153	0.720	0.705	Blue	
111	12-10	6	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	12-10	8	1.120	0.234	0.202	0.043	0.037	0.300/0.275	0.139/0.129	0.178	0.168	0.210	0.380	0.365	Yellow	
112	12-10	10	1.120	0.234	0.234	0.043	0.037	0.300/0.275	0.139/0.129	0.203	0.193	0.210	0.380	0.365	Yellow	
157	12-10	1/4	1.322	0.234	0.265	0.043	0.037	0.300/0.275	0.139/0.129	0.275	0.260	0.210	0.536	0.516	Yellow	
113	12-10	5/16	1.322	0.234	0.296	0.043	0.037	0.300/0.275	0.139/0.129	0.338	0.323	0.210	0.536	0.516	Yellow	
114	12-10	3/8	1.414	0.234	0.328	0.043	0.037	0.300/0.275	0.139/0.129	0.400	0.385	0.210	0.598	0.573	Yellow	
158	12-10	1/2	1.414	0.234	0.453	0.043	0.037	0.300/0.275	0.139/0.129	0.525	0.510	0.210	0.720	0.705	Yellow	
115	8	10	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	8	1/4	1.466	0.315	0.265	0.084	0.038	0.350/0.300	0.186/0.176	0.275	0.260	0.257	0.478	0.435	Red	
117	8	5/16	1.544	0.315	0.296	0.084	0.038	0.350/0.300	0.186/0.176	0.338	0.323	0.257	0.590	0.547	Red	
118	8	3/8	1.544	0.315	0.328	0.084	0.038	0.350/0.300	0.186/0.176	0.400	0.385	0.257	0.590	0.547	Red	
119	6	10	1.599	0.375	0.238	0.084	0.043	0.410/0.360	0.232/0.222	0.203	0.193	0.310	0.503	0.460	Blue	
120	6	1/4	1.599	0.375	0.265	0.084	0.043	0.410/0.360	0.232/0.222	0.275	0.260	0.310	0.503	0.460	Blue	
121	6	5/16	1.762	0.375	0.305	0.084	0.043	0.410/0.360	0.232/0.222	0.338	0.323	0.310	0.623	0.580	Blue	
122	6	3/8	1.762	0.375	0.328	0.084	0.043	0.410/0.360	0.232/0.222	0.400	0.385	0.310	0.623	0.580	Blue	
123	4	1/4	1.812	0.437	0.276	0.096	0.047	0.500/0.425	0.290/0.280	0.275	0.260	0.370	0.570	0.480	Yellow	

TABLE 1 - DIMENSIONS (CONTINUED)

DASH NO.	WIRE SIZE	STUD SIZE	A MAX	B MIN	C		D		E DIA	F DIA	G DIA		J MIN DIA	W		INSULATING SLEEVE COLOR
					MIN	RAD	MAX	MIN			MAX	MAX		MIN	MAX	
124	4	5/16	1.879	0.437	0.308	0.308	0.096	0.047	0.500/0.425	0.290/0.280	0.338	0.323	0.370	0.648	0.605	Yellow
125	4	3/8	1.879	0.437	0.328	0.328	0.096	0.047	0.500/0.425	0.290/0.280	0.400	0.385	0.370	0.648	0.605	Yellow
126	2	1/4	2.069	0.505	0.343	0.343	0.109	0.054	0.560/0.510	0.365/0.355	0.275	0.260	0.453	0.711	0.668	Red
127	2	5/16	2.069	0.505	0.343	0.343	0.109	0.054	0.560/0.510	0.365/0.355	0.400	0.385	0.453	0.711	0.668	Red
128	2	1/2	2.269	0.505	0.453	0.453	0.109	0.054	0.560/0.510	0.365/0.355	0.525	0.510	0.453	0.804	0.740	Red
129	1	1/4	2.150	0.565	0.383	0.383	0.125	0.070	0.620/0.560	0.398/0.388	0.275	0.260	0.500	0.783	0.740	Clear
130	1	5/16	2.150	0.565	0.383	0.383	0.125	0.070	0.620/0.560	0.398/0.388	0.400	0.385	0.500	0.783	0.740	Clear
131	1	1/2	2.370	0.565	0.453	0.453	0.125	0.070	0.620/0.560	0.398/0.388	0.525	0.510	0.500	0.887	0.740	Clear
132	0	1/4	2.401	0.630	0.418	0.418	0.125	0.070	0.685/0.625	0.458/0.438	0.275	0.260	0.550	0.853	0.810	Blue
133	0	5/16	2.401	0.630	0.418	0.418	0.125	0.070	0.685/0.625	0.458/0.438	0.400	0.385	0.550	0.853	0.810	Blue
134	0	1/2	2.525	0.630	0.453	0.453	0.125	0.070	0.685/0.625	0.458/0.438	0.525	0.510	0.550	0.903	0.860	Blue
135	00	5/16	2.750	0.700	0.473	0.473	0.129	0.075	0.755/0.685	0.520/0.500	0.338	0.323	0.610	0.956	0.913	Yellow
136	00	3/8	2.750	0.700	0.473	0.473	0.129	0.075	0.755/0.685	0.520/0.500	0.400	0.385	0.610	0.956	0.913	Yellow
137	00	1/2	2.750	0.700	0.473	0.473	0.129	0.075	0.755/0.685	0.520/0.500	0.525	0.510	0.610	0.956	0.913	Yellow
138	000	3/8	3.000	0.718	0.513	0.513	0.140	0.085	0.840/0.729	0.577/0.557	0.400	0.385	0.680	1.053	1.010	Red
139	000	1/2	3.000	0.718	0.513	0.513	0.140	0.085	0.840/0.729	0.577/0.557	0.525	0.510	0.680	1.053	1.010	Red
140	0000	3/8	3.300	0.734	0.560	0.560	0.150	0.095	1.000/0.802	0.645/0.622	0.400	0.385	0.750	1.148	1.095	Blue
141	0000	1/2	3.300	0.734	0.560	0.560	0.150	0.095	1.000/0.802	0.645/0.622	0.525	0.510	0.750	1.148	1.095	Blue