FEDERAL SUPPLY CLASS
5940

RATIONALE

FULL REVISION REQUIRED TO CLARIFY DRAWING, TABLE, AND REMOVE QUALIFICATION REQUIREMENT.

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS70991.

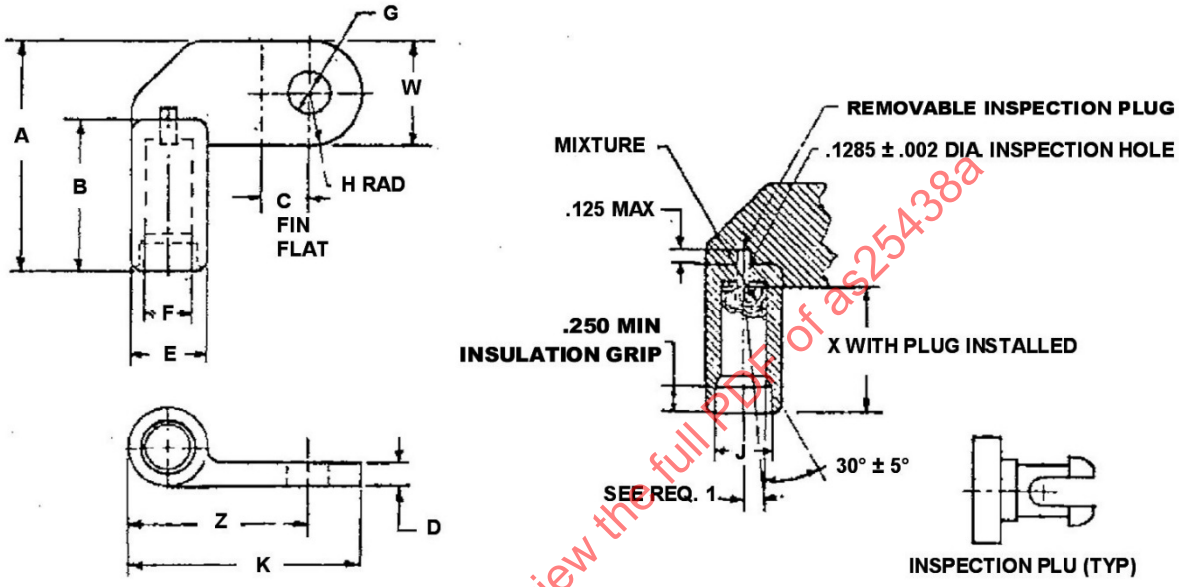
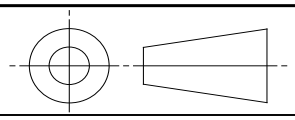


FIGURE 1 - AS25438 CONFIGURATION

ISSUED 2002-02 REAFFIRMED 2009-04 REVISED 2015-01

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE8-C2

PROCUREMENT SPECIFICATION: AS70991

SAE INTERNATIONAL

AEROSPACE STANDARD

(R) TERMINAL-LUG, CRIMP STYLE, RIGHT ANGLE TYPE, FOR ALUMINUM AIRCRAFT WIRE, CLASS 1

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TABLE 1 - AS25438 CONFIGURATION DIMENSION

AS25438-	CABLE SIZE	STUD SIZE	A ±.032	B ±.025	C ±.020	D ±.025	E ±.020	F ±.003	G DIA MIN	G DIA MAX	H .008	K ±.035	J DIA ±.010	W ±.016	Z ±.024	X ±.020
1	8	#10	1.617	1.067	.372	.096	.355	.167	.203	.193	.344	1.095	.250	.688	.751	.880
2		1/4							.285	.260						
3		5/16	1.808		.466				.343	.320	.437	1.342		.875	.905	
4		3/8							.410	.385						
5	6	#10	1.742	1.192	.372	.112	.413	.219	.203	.193	.344	1.230	.313	.688	.936	1.005
6		1/4							.285	.260						
7		5/16	1.935		.466				.343	.320	.437	1.400		.875	.963	
8		3/8							.410	.385						
9	4	#10	1.867	1.327	.372	.128	.510	.273	.203	.193	.344	1.250	.375	.688	.906	1.130
10		1/4			.466				.285	.260						
11		5/16	2.055						.343	.320	.437	1.500		.875	1.063	
12		3/8							.410	.385						
13	2	1/4	2.196	1.458	.466	.143	.601	.342	.285	.260	.437	1.600	.469	.875	1.163	1.271
14		5/16							.343	.320						
15		3/8							.410	.385						
16		1/2	2.508		.622				.535	.510	.593	1.900		1.137	1.307	
17	1	1/4	2.196	1.458	.466	.143	.633	.376	.285	.260	.437	1.615	.516	.875	1.178	1.271
18		5/16							.343	.320						
19		3/8							.410	.385						
20		1/2	2.508		.622				.535	.510	.593	1.935		1.137	1.342	
21	0	1/4	2.240	1.520	.466	.159	.699	.425	.285	.260	.437	1.710	.563	.875	1.273	1.333
22		5/16							.343	.320						
23		3/8							.410	.385						
24		1/2	2.570		.622				.535	.510	.593	2.015		1.137	1.422	
25	00	5/16	2.323	1.582	.466	.190	.789	.485	.343	.320	.437	1.795	.625	.875	1.358	1.395
26		3/8							.410	.385						
27		1/2	2.632		.622				.535	.510	.593	2.105		1.187	1.512	
28	000	3/8	2.505	1.64	.551	.190	.836	.547	.410	.385	.500	2.994	.703	1.000	1.494	1.45
29		1/2	2.69		.622				.535	.510	.593	2.14		1.13	1.55	
			5	5								5		7	2	9
30	0000	3/8	2.663	1.801	.551	.206	.947	.594	.410	.385	.500	2.203	.766	1.000	1.603	1.614
31		1/2	2.351		.622				.535	.510	.593	2.265		1.187	1.672	

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS70991.

1. CONFIGURATION:

   CONFIGURATION SHALL BE A ONE PIECE CONSTRUCTION IN ACCORDANCE WITH FIGURE 1 AND TABLE 1. UNITS SHALL BE INCHES. A MAXIMUM OF 5° PERMITTED IN UNCRIMPED TERMINALS. AFTER CRIMPING, THE CENTER LINE OF THE BARREL SHALL BE PARALLEL WITHIN ±1° WITH THE FLAT OF THE TONGUE.

2. MATERIAL:

   MATERIAL SHALL BE WROUGHT ALUMINUM WITH MINIMUM CONDUCTIVITY OF 57% IACS. ABRASIVE MATERIAL SHALL BE IN ACCORDANCE WITH AS70991.

3. FINISH:

   FINISH SHALL BE TIN PLATED ELECTRODEPOSITED WITH THICKNESS OF .0003 INCHES.

4. TERMINAL HARDNESS:

   TONGUE HARDNESS SHALL BE MINIMUM ROCKWELL H-95 AND MAXIMUM ROCKWELL H-65. BARREL HARDNESS SHALL BE MAXIMUM ROCKWELL H-35.