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AS25487™

FEDERAL SUPPLY CLASS
5935

RATIONALE

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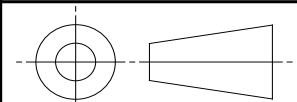
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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8C1

PROCUREMENT SPECIFICATION: AS7974



AEROSPACE STANDARD

CONNECTOR, PLUG, ATTACHABLE
EXTERNAL ELECTRIC POWER, AIRCRAFT,
28 VOLT DC, JET STARTING

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ISSUED 2004-04 REVISED 2018-09 STABILIZED 2025-02

NOTICE

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7974.

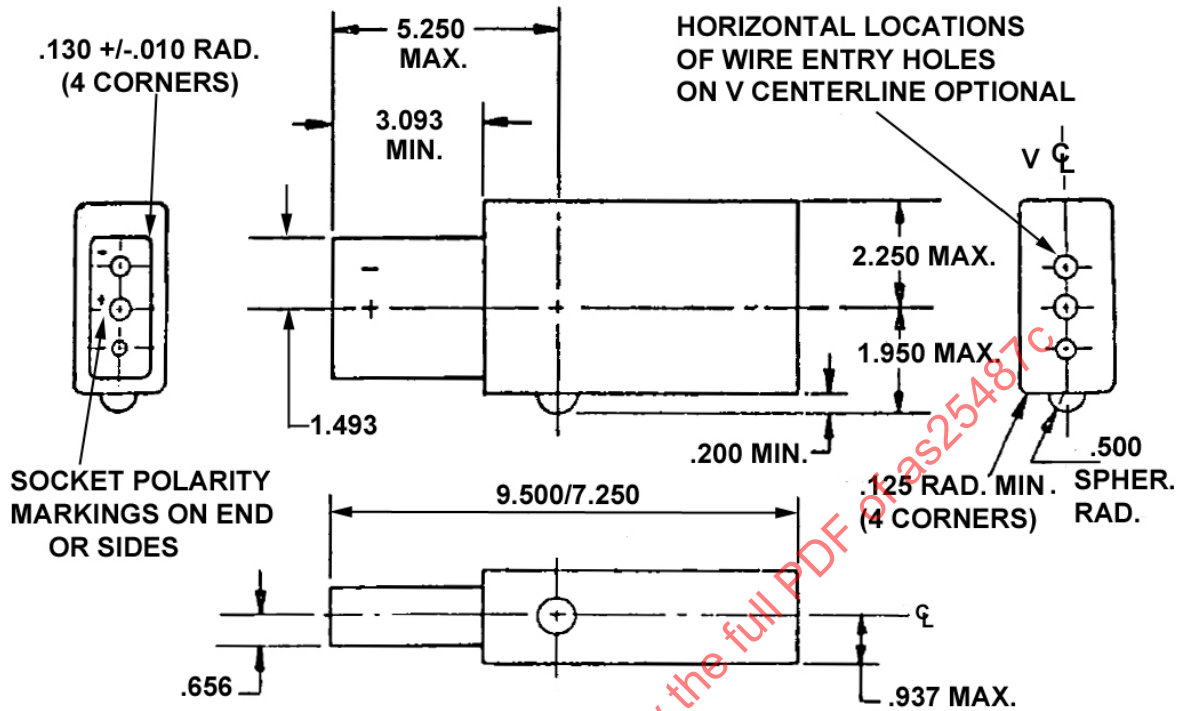


FIGURE 1 - CONNECTOR PLUG

TABLE 1 - FIGURE 1 METRIC EQUIVALENTS

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.010	0.254	.500	12.70	1.950	49.53	7.250	184.15
.125	3.18	.656	16.66	2.250	57.15	9.500	241.30
.130	3.30	.937	23.80	3.093	78.56		
.200	5.08	1.493	37.92	5.250	133.35		

TABLE 2 - PART NUMBER

PART NO.	SUPERSEDED PART NUMBER	WIRE SIZE	
		LARGE SOCKETS	SMALL SOCKETS
MS25487-10	MS25487-1, -2, -9	0000	NO. 8

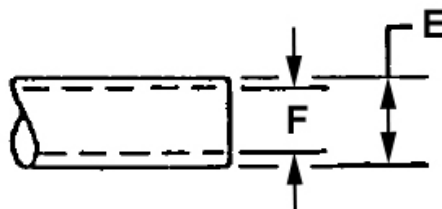


FIGURE 2 - CRIMP BARREL

TABLE 3 - FIGURE 2 DIMENSIONS

WIRE SIZE	E DIA		F DIA	
	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
0000	.780 (19.81)	.760 (19.30)	.645 (16.38)	.622 (15.80)
8	.272 (6.91)	.260 (6.60)	.186 (4.72)	.176 (4.47)

TABLE 4 - CRIMP TOOL/DIE/GAGE PART NUMBERS

PART NO.	WIRE SIZE	CRIMP TOOL PART NUMBER	CRIMP DIE PART NUMBER	GAGE PART NUMBER
MS25487-10	8	MS25441-01 ^{1/}	MS90485-08 ^{2/}	MS90486-08 ^{3/}
		M5259/3-01	MS90485-08 ^{2/}	MS90486-08 ^{3/}
		M5259/4-01	M5259/7-001	MS90486-08 ^{3/}
		M5259/5-01	M5259/7-001	MS90486-08 ^{3/}
		M5259/5-01	M5259/7-010	M5259/6-001
MS25487-10	0000	MS25441-01 ^{1/}	MS90485-04 ^{2/}	MS90486-04 ^{3/}

^{1/} REFER TO AS5259/1 FOR MS25441 TOOL DETAILS.

^{2/} REFER TO AS5259/7 FOR MS90485 DIE DETAILS.

^{3/} REFER TO AS5259/6 FOR MS90486 INSPECTION GAGE DETAILS.

REQUIREMENTS: ALL REQUIREMENTS SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS7974.

1. DESIGN:

CONNECTOR PLUG SHALL BE DESIGNED IN ACCORDANCE WITH FIGURES 1 AND 2 AND TABLE 3. DIMENSIONS ARE IN INCHES AND APPLY AFTER PLATING. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± 0.025 (± 0.64 MM). METRIC EQUIVALENTS (TO THE NEAREST 0.01 MM) ARE IN PARENTHESES AND GIVEN FOR GENERAL INFORMATION ONLY. METRIC EQUIVALENTS ARE BASED ON 1 INCH = 25.4 MM. UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINES. EACH PLUG, WHEN MATED WITH MS25018-2 RECEPTACLE, SHALL MEET ALL THE REQUIREMENTS OF AS7974.

2. TOOLS:

TOOLS SHALL BE AS SPECIFIED IN TABLE 4.

SOCKET CONTACT CRIMP TYPE BARREL ENDS SHALL BE DESIGNED SO THAT THE PLUG MAY BE ATTACHED TO CABLES USING CRIMPING TOOLS SPECIFIED IN AS5259/1, AS5259/3, AS5259/4, AND AS5259/5.

3. PART NUMBERS:

THE CONNECTOR PART NUMBER SHALL BE AS SPECIFIED IN TABLE 2. MOLD OR STAMP WIRE SIZE ON CRIMP BARREL.



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