

REV.
B

AS25486

RATIONALE

REVISE TO IMPROVE DRAWING/DIMENSION QUALITY, UPDATE REFERENCES, ADD A METRIC TABLE, ALIGN SPECIFICATION WITH SAE GUIDELINES, AND REVIEW SPECIFICATION FOR KNOWN TECHNICAL PROBLEMS.

NOTICE

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

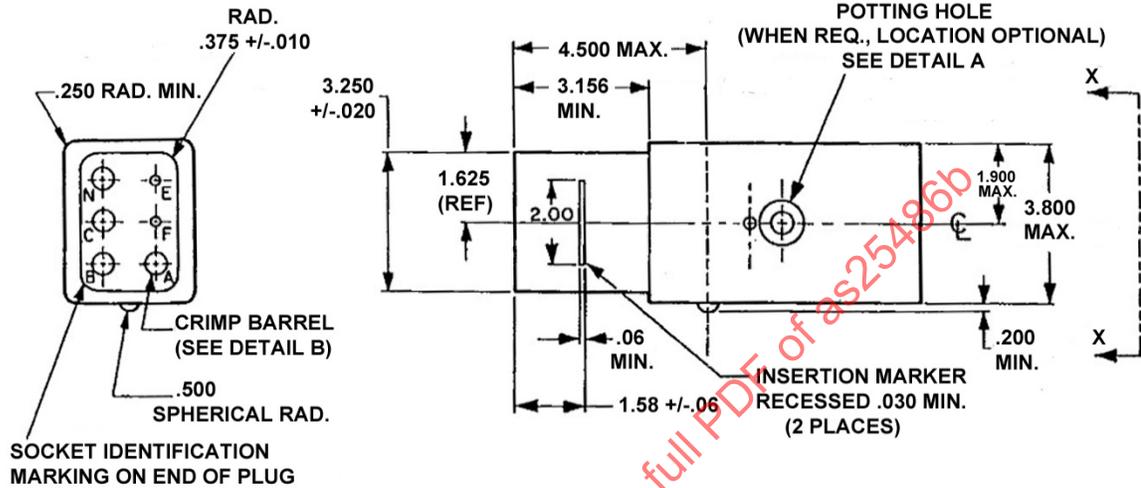


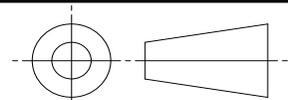
FIGURE 1 - AS25486 ATTACHABLE PLUG CONFIGURATIONS

TABLE 1 - FIGURE 1/1A METRIC EQUIVALENTS

INCHES	MM								
.010	0.254	.200	5.08	1.125	28.58	2.00	50.80	3.250	82.55
.020	0.508	.250	6.35	1.510	38.40	2.25	57.15	3.800	96.52
.030	0.762	.375	9.53	1.58	40.13	3.02	76.71	4.500	114.30
.060	1.52	.500	12.70	1.625	41.28	3.156	80.16	9.25	234.95

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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

PROCUREMENT SPECIFICATION: AS7974



AEROSPACE STANDARD

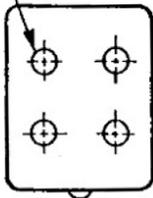
(R) CONNECTOR, PLUG, ATTACHABLE, EXTERNAL ELECTRIC POWER, AIRCRAFT, 115/200 VOLT, 400 HERTZ

AS25486
SHEET 1 OF 4

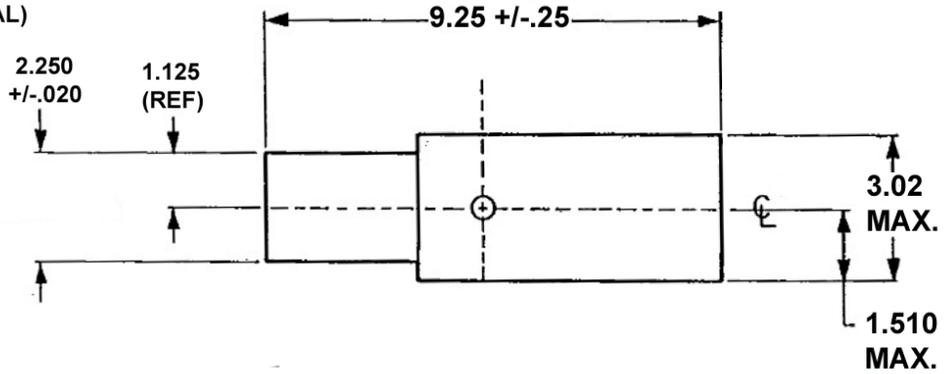
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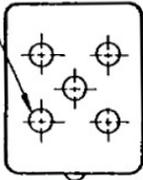
WIRE ENTRY HOLES
(LOCATION OPTIONAL)



VIEW X-X
GROMMET
MS25486-16 TO -19



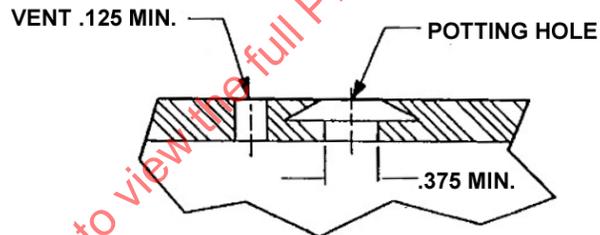
WIRE ENTRY HOLES
(LOCATION OPTIONAL)



VIEW X-X
GROMMET
MS25486-30 TO -33

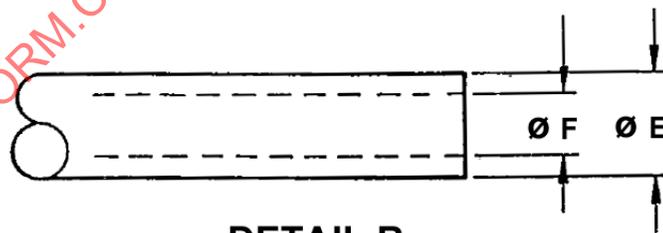
POTTING HOLE PLUG

DESIGN AND LOCATION OF
POTTING HOLE AND POTTING
HOLE PLUG ARE OPTIONAL



DETAIL A

TYPICAL CROSS-SECTION
DASH -18, -19, -32 AND -33



DETAIL B

AS25486 CONTACT CRIMP BARREL (SEE TABLE 3)
DASH -16 THRU -19 AND -30 THRU -33

FIGURE 1A - AS25486 ATTACHABLE PLUG CONFIGURATIONS



AEROSPACE STANDARD
(R) CONNECTOR, PLUG, ATTACHABLE,
EXTERNAL ELECTRIC POWER, AIRCRAFT,
115/200 VOLT, 400 HERTZ

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SHEET 2 OF 4

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TABLE 2 - PART NUMBER, WIRE SIZE, DIMENSIONS, AND SUPERSEDED PART NUMBERS

PART NO.	A,B,C,N WIRE SIZE	E,F WIRE SIZE	SUPERSEDES	DESCRIPTION
MS25486-16 MS25486-17	0 00	SEE REQ. 1	MS25486-1 MS25486-3	FOR CABLE WIRES WITHOUT CONTROL LEADS.
MS25486-18 MS25486-19	0 00	SEE REQ. 1	----- -----	*FOR CABLE WIRES WITHOUT CONTROL LEADS WITH POTTING HOLE (SEE REQUIREMENT 4).
MS25486-30 MS25486-31	0 00	12	----- -----	FOR CABLE WITH CONTROL LEADS.
MS25486-32 MS25486-33	0 00	12	----- -----	*FOR CABLE WITH CONTROL LEADS WITH POTTING HOLE (SEE REQUIREMENT 4).

*AIR FORCE USE ONLY

TABLE 3 - WIRE SIZE AND CRIMP BARREL DIMENSIONS

WIRE SIZE	E DIA.	F DIA.
0	.578 (14.68)	.458 (11.63)
	.558 (14.17)	.438 (11.13)
00	.640 (16.26)	.528 (13.41)
	.620 (15.75)	.518 (13.16)
12	.230 (5.84)	.135 (3.43)
	.215 (5.46)	.129 (3.28)

TABLE 4 - CONTACT CRIMP TOOLS ^{1/}

WIRE SIZE	CRIMP TOOLS (OPTION 1)	AS5259/7 CRIMP DIES	CRIMP TOOLS (OPTION 2)	AS5259/7 CRIMP DIES
0	AS5259/1 (MS25442-01) ^{2/}	MS90485-01	AS5259/4 (M5259/4-01) ^{2/}	M5259/7-006
00	AS5259/3 (M5259/3-01)	MS90485-02	AS5259/5 (M5259/5-01)	M5259/7-007
12	AS22520/38 (M22520/38-01, CAVITY C)	N/A	N/A	N/A

^{1/} AS5259 TOOLS SUPERSEDE MIL-C-22909 AND ALL RELATED "MS" TOOLS AND DIES.

^{2/} MS25442-1 AND M5259/4-01 REQUIRE A HYDRAULIC PUMP. (SEE AS5259/2 FOR PUMP AND ACCESSORY INFORMATION.)

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

1. DESIGN:

- a. CONNECTOR PLUG SHALL BE DESIGNED IN ACCORDANCE WITH FIGURE 1 AND TABLE 2.
- b. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.025 (±0.64 MM). METRIC EQUIVALENTS (TO THE NEAREST 0.01 MM) ARE GIVEN IN TABLE 1 FOR GENERAL INFORMATION ONLY. METRIC EQUIVALENTS ARE BASED ON 1 INCH = 25.4 MM.
- c. DIMENSIONS APPLY AFTER PLATING FOR METAL COMPONENTS.
- d. UNLESS OTHERWISE INDICATED, DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINES.
- e. EACH PLUG SHALL MEET ALL THE REQUIREMENTS OF AS7974 WHEN MATED WITH AN AS90362-3 RECEPTACLE.
- f. PLUGS USED WITH CABLES WITHOUT CONTROL LEADS SHALL HAVE SOCKETS "E" AND "F" CONNECTED TOGETHER WITHIN THE PLUG BY A COPPER OR BRASS JUMPER HAVING A CROSS-SECTIONAL AREA OF AT LEAST 6530 CIRCULAR MILS.

	AEROSPACE STANDARD	AS25486 SHEET 3 OF 4	REV. B
	(R) CONNECTOR, PLUG, ATTACHABLE, EXTERNAL ELECTRIC POWER, AIRCRAFT, 115/200 VOLT, 400 HERTZ		