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SAE AS7974/3

FEDERAL SUPPLY CLASS
5935

RATIONALE

AS7974/3 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

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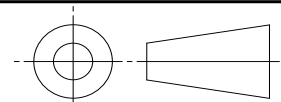
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THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8C1

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

CONNECTOR, PLUG, ATTACHABLE, EXTERNAL ELECTRIC POWER, AIRCRAFT, SINGLE-JACKETED CABLE ASSEMBLIES, 115/200 VOLT, 400 HERTZ

SAE AS7974/3
SHEET 1 OF 5

ISSUED 1998-01 REAFFIRMED 2012-12

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION: MIL-C-7974.

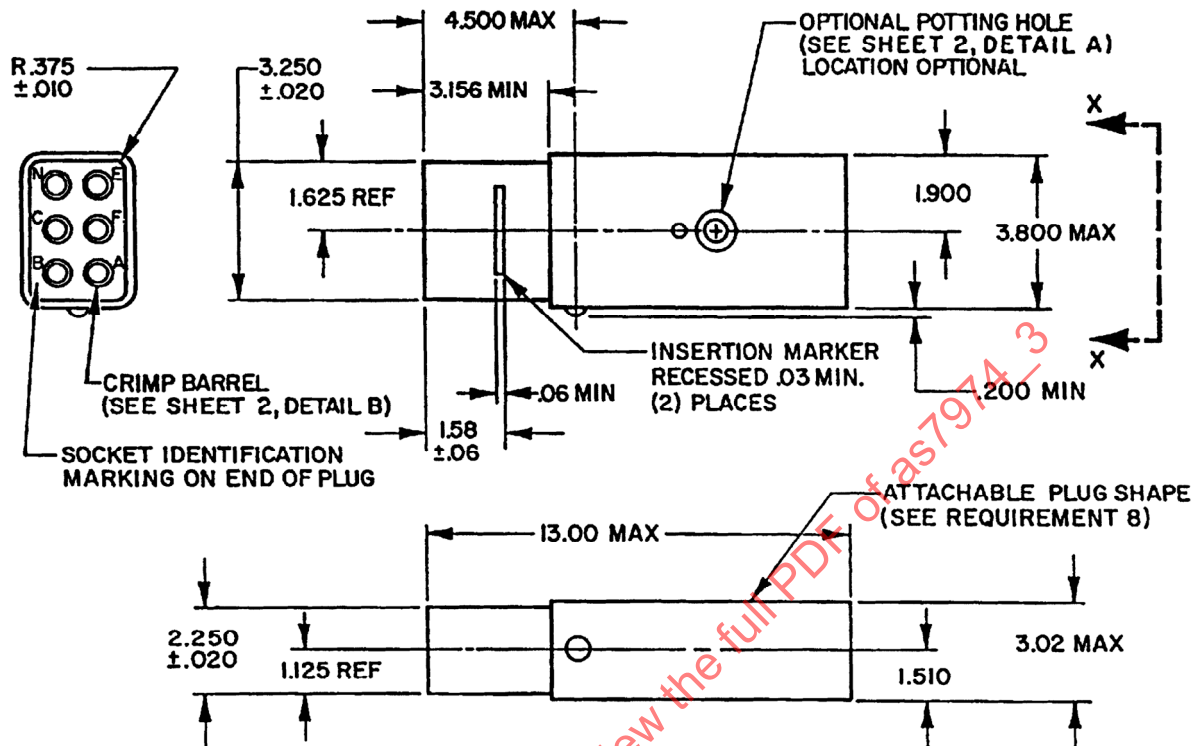


FIGURE 1. ATTACHABLE PLUG.

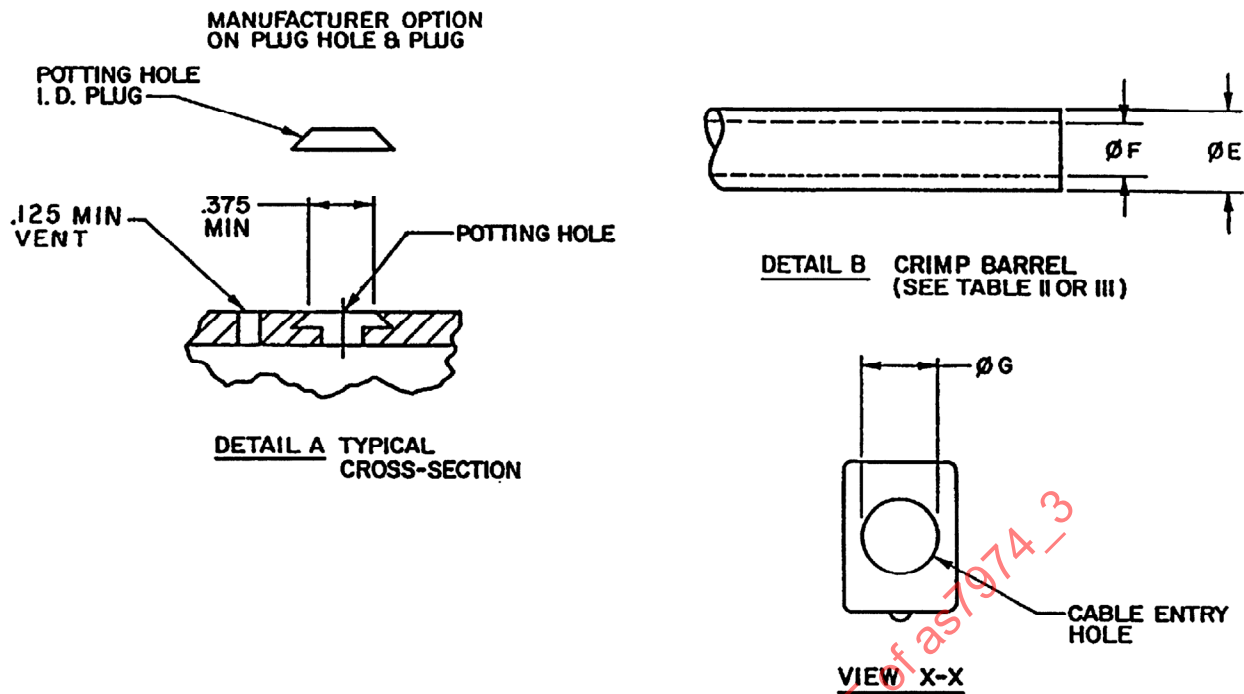


FIGURE 1. ATTACHABLE PLUG (CONTINUED).

TABLE I. METRIC CONVERSION.

INCHES	MM	INCHES	MM	INCHES	MM	INCHES	MM
.010	2.54	.230	5.84	.578	14.68	1.900	48.26
.020	5.08	.232	5.89	.620	15.75	1.980	50.29
.025	6.35	.293	7.44	.640	16.26	2.250	57.15
.060	15.24	.316	8.03	1.125	28.58	3.020	76.71
.125	3.18	.375	9.53	1.510	38.35	3.156	80.16
.129	3.28	.438	11.13	1.580	40.13	3.250	82.55
.135	3.43	.458	11.63	1.605	40.77	3.800	96.52
.200	5.08	.518	13.16	1.625	41.28	4.500	114.30
.215	5.46	.528	13.41	1.800	45.72	13.00	330.2
.222	5.64	.558	14.17				

TABLE II. TYPE I ATTACHABLE PLUG DETAILS.

PART NUMBER	WIRE SIZE			CRIMP BARREL DIMENSIONS				CABLE ENTRY HOLE NOM.
				A, B, C, N		E & F CONTROL		
	A, B, C	N	E AND F CONTROL	E DIA	F DIA	E DIA	F DIA	G DIA
M7974/3A	0 AWG	3x6 AWG	12 AWG	.578/ .558	.458/ .438	.230/ .215	.135/ .129	1.595
M7974/3B	00 AWG	3x4 AWG	12 AWG	.640/ .620	.528/ .518	.230/ .215	.135/ .129	1.865

TABLE III. TYPE II ATTACHABLE PLUG DETAILS.

PART NUMBER	WIRE SIZE			CRIMP BARREL DIMENSIONS				CABLE ENTRY HOLE NOM.
				A, B, C, N		E & F CONTROL		
	A, B, C	N	E AND F CONTROL	E DIA	F DIA	E DIA	F DIA	G DIA
M7974/3C	2x2 AWG	00 AWG	3x18 AWG	.640/ .620	.528/ .518	.316/ .293	.232/ .222	1.980

REQUIREMENTS:

1. QUALIFICATION REQUIRED.

2. MATERIAL: SEE MIL-C-7974.

3. ATTACHABLE PLUG TYPE:

a. TYPE I, ATTACHABLE PLUG FOR SPLIT NEUTRAL CABLE ASSEMBLY CONSTRUCTION.

STYLE A DESIGNATOR - THE ATTACHABLE PLUG SHALL TERMINATE WITH THE M5756/5-001 CABLE CONSTRUCTION OF THE MIL-C-7974/4 TYPE I, STYLE A CABLE ASSEMBLY.

STYLE B DESIGNATOR - THE ATTACHABLE PLUG SHALL TERMINATE WITH THE M5756/5-002 CABLE CONSTRUCTION OF THE MIL-C-7974/4 TYPE I, STYLE B CABLE ASSEMBLY.

b. TYPE II, ATTACHABLE PLUG FOR SPLIT PHASE CABLE ASSEMBLY CONSTRUCTION.

STYLE C DESIGNATOR - THE ATTACHABLE PLUG SHALL TERMINATE WITH THE M5756/6-002 CABLE CONSTRUCTION OF THE MIL-C-7974/4 TYPE II, STYLE C CABLE ASSEMBLY.