

THREADED COUPLING, MIL-DTL-5015 TYPE Harsh Environment Power and Signal Interconnects



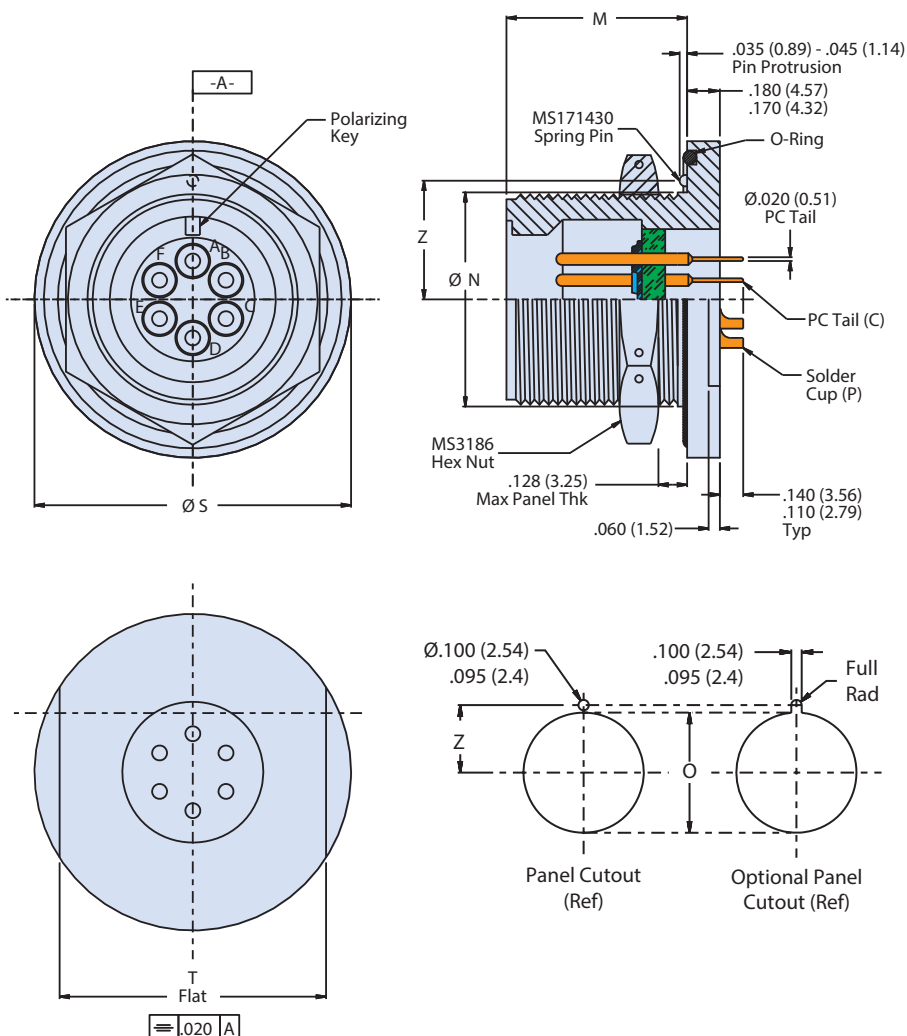
250-105 Jam Nut Mount Mount Receptacle Connector MS3404 Type

HERMETIC CONNECTORS

HOW TO ORDER						
Sample Part Number	250-105	Z1	14-6	C	X	V
Basic Part Number	250-105 = hermetic jam-nut mount, receptacle					
Material/Finish	FT = fused tin over ferrous steel Z1 = passivated stainless steel ZL = nickel plated stainless steel					
Shell Size - Insert Arrangement	Shell size - insert arrangements per MIL-STD-1651 on page 2					
Termination Type	P = solder cup C = PC tail					
Alternate Insert Position See note 5	W, X, Y, Z omit for normal; alternate key positions on page 4					
O-ring Material	See table III					

NOTES:

- Assembly to be identified with Glenair's name, part number and date code, space permitting.
- Material/Finish:
 - Shell: see how to order table
 - Contacts: 52 nickel alloy/gold plate
 - Seals: silicone elastomer
 - Insulator: full glass
- Performance data:
 - Hermeticity: $<1 \times 10^{-7}$ sccHe/sec @ 1 atmosphere differential.
 - DWV: see Table II.
 - IR: 5000 megohms minimum @ 500 VDC.
- Glenair 250-105 will mate with any MIL-DTL-5015 threaded coupling plug of same size and insert polarization.
- Insert position rotates clockwise



VISIT CATALOG

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257-384 Jam Nut Mount Mount Receptacle Connector MS3404 Type

HERMETIC CONNECTORS

TABLE I: CONNECTOR DIMENSIONS

Size	M ± .005 (0.1)	Ø N +.000 -.005 (+0.0 -0.1)	Ø O +.015 -.000 (+0.4 -0.0)	Ø S ± .005 (0.1)	T ± .010 (0.3) Flats	Z ± .005 (0.1)
8S	.720 (9.5)	.500 (12.7)	.505 (12.8)	1.072 (27.2)	.865 (22.0)	.326 (8.3)
10S	.720 (9.5)	.625 (15.9)	.630 (16.0)	1.193 (30.3)	.990 (25.1)	.385 (9.8)
10SL	.720 (9.5)	.625 (15.9)	.630 (16.0)	1.193 (30.3)	.990 (25.1)	.385 (9.8)
12S	.720 (9.5)	.750 (19.1)	.755 (19.2)	1.317 (33.5)	1.050 (26.7)	.448 (11.4)
12	.966 (24.5)	.750 (19.1)	.755 (19.2)	1.317 (33.5)	1.050 (26.7)	.448 (11.4)
14S	.720 (9.5)	.875 (22.2)	.880 (22.4)	1.443 (36.7)	1.175 (29.8)	.510 (13.0)
14	.966 (24.5)	.875 (22.2)	.880 (22.4)	1.443 (36.7)	1.175 (29.8)	.510 (13.0)
16S	.720 (9.5)	1.000 (25.4)	1.005 (25.5)	1.567 (39.8)	1.300 (33.0)	.573 (14.6)
16	.966 (24.5)	1.000 (25.4)	1.005 (25.5)	1.567 (39.8)	1.300 (33.0)	.573 (14.6)
18	.966 (24.5)	1.125 (28.6)	1.130 (28.7)	1.693 (43.0)	1.425 (36.2)	.635 (16.1)
20	.966 (24.5)	1.250 (31.8)	1.255 (31.9)	1.817 (46.2)	1.550 (39.4)	.698 (17.7)
22	.966 (24.5)	1.375 (34.9)	1.380 (35.1)	1.943 (49.4)	1.550 (39.4)	.760 (19.3)
24	.966 (24.5)	1.500 (38.1)	1.505 (38.2)	2.067 (52.5)	1.800 (45.7)	.823 (20.9)
28	.966 (24.5)	1.750 (44.5)	1.755 (44.6)	2.317 (58.9)	1.925 (48.9)	.948 (24.1)
32	.966 (24.5)	2.000 (50.8)	2.005 (50.9)	2.567 (65.2)	2.175 (55.2)	1.073 (27.3)
36	.966 (24.5)	2.250 (57.2)	2.255 (57.3)	2.817 (71.6)	2.550 (64.8)	1.198 (30.4)
40	.966 (24.5)	2.500 (63.5)	2.505 (63.6)	3.061 (77.7)	2.800 (71.1)	1.323 (33.6)
44	.966 (24.5)	2.750 (69.9)	2.755 (70.0)	3.311 (84.1)	3.050 (77.5)	1.448 (36.8)
48	.966 (24.5)	3.000 (76.2)	3.005 (76.3)	3.561 (90.4)	3.300 (83.8)	1.573 (40.0)

**TABLE II:
SERVICE RATING**

Service Rating	Test Voltages (Sea-Level) (Volts-RMS)	Working Voltage (Sea-Level) (Volts RMS)
INST	1000	200
A	2000	500
D	2800	900
E	3500	1250
B	4500	1750
C	7000	3000

TABLE III: O-RINGS

Sym	Material
F	Fluorosilicone (Non-Conductive)
E	EPDM (Ethylene-Propylene)
V	Viton (Fluorocarbon, FKM)
N	Nitrile (Buna-N, NBR)
S	Silicone (ZZ-R-765)
B	Butyl Rubber (IIR)
K	Kalrez (FFKM)

HERMETIC LEAK RATE MOD CODE

Designator	Required Leak Rate
-585A	1 x 10 ⁻¹⁰ cc Helium per second
-585B	1 x 10 ⁻⁹ cc Helium per second
-585C	1 x 10 ⁻⁸ cc Helium per second

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