

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



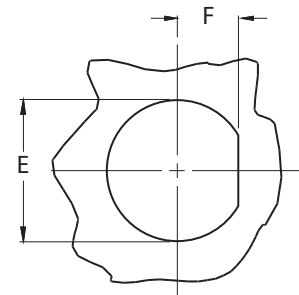
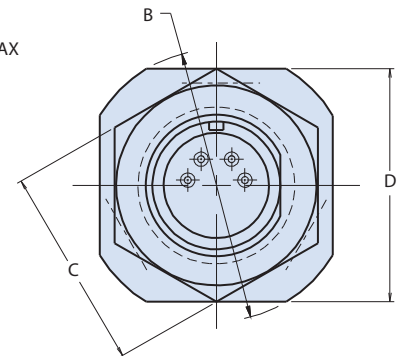
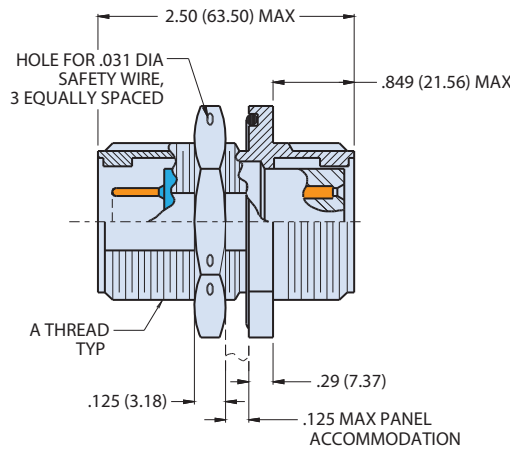
## 253-507 Environmental Bulkhead Feed-Thru, Jam-Nut Mount MIL-DTL-5015 Series III Type

ENVIRONMENTAL CONNECTORS

### NOTES:

1. Assembly identified with manufacturer's name and P/N, space permitting
2. Material/Finish
  - Shell: see Table II
  - Contacts: copper alloy / gold plate
  - Insulators: high-grade rigid dielectric
  - O-rings & seals: silicone
3. Glenair bulkhead feedthru is designed to mate with any QPL manufacturer's MIL-DTL-5015, Series III Mating plug connector having the same shell size, insert arrangement, and polarization.
4. Insert arrangement is in accordance with MIL-STD-1651, contact manufacturer for additional arrangement options.
5. For pin/pin and skt/skt, symmetrical layout only. Consult factory for available insert arrangements.
6. Power to a given contact on one end will result in power to Contact directly opposite, regardless of identification letter.
7. Electrical safety limits must be established by user. Peak voltage, switching surge, transient, etc., should be used to determine safety of application.

HOW TO ORDER					
<b>Sample Part Number</b>	<b>253-507</b>	<b>M</b>	<b>-5</b>	<b>P</b>	<b>W</b>
<b>Basic Part Number</b>	<b>253-507</b> = jam-nut mount bulkhead feedthru				
<b>Material/Finish</b>	<b>B, M, N, NF</b> ; see Table I				
<b>Insert Arrangement Dash No</b>	Shell size - insert arrangements per MIL-STD-1651 on page 2				
<b>Contact Type</b>	<b>P</b> = pin <b>PS</b> = pin on panel side / socket opposite <b>S</b> = socket <b>SP</b> = socket on panel side / pin opposite				
<b>Alternate Insert Position</b>	<b>W, X, Y, Z, Omit</b> for normal; alternate insert positions on page 4				



RECOMMENDED PANEL CUT-OUT

### NOTES (CONT):

8. Contact factory for additional insert arrangements and backshell options

TABLE I: DIMENSIONS

SHELL SIZE	A THREAD CLASS 2A	B DIA MAX	C HEX	D FLATS	E DIA ±.005(±0.1)	F DIM MIN
8S	1/2-28 UNEF	1.000 (25.4)	.688 (17.5)	.875 (22.2)	.510 (13.0)	.219 (5.6)
10SL	5/8-24 UNEF	1.125 (28.6)	.812 (20.6)	1.000 (25.4)	.635 (16.1)	.281 (7.1)
12	3/4-20 UNEF	1.250 (31.8)	.938 (23.8)	1.125 (28.6)	.760 (19.3)	.344 (8.7)
12S	3/4-20 UNEF	1.250 (31.8)	.938 (23.8)	1.125 (28.6)	.760 (19.3)	.344 (8.7)
14	7/8-20 UNEF	1.375 (34.9)	1.062 (27.0)	1.250 (31.8)	.885 (22.5)	.406 (10.3)
14S	7/8-20 UNEF	1.375 (34.9)	1.062 (27.0)	1.250 (31.8)	.885 (22.5)	.406 (10.3)
16	1-20 UNEF	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	1.010 (25.7)	.469 (11.9)
16S	1-20 UNEF	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	1.010 (25.7)	.469 (11.9)
18	11/8-18 UNEF	1.750 (44.5)	1.375 (34.9)	1.625 (41.3)	1.135 (28.8)	.531 (13.5)
20	11/4-18 UNEF	1.875 (47.6)	1.500 (38.1)	1.750 (44.5)	1.260 (32.0)	.594 (15.1)
22	13/8-18 UNEF	2.000 (50.8)	1.625 (41.3)	1.875 (47.6)	1.385 (35.2)	.656 (16.7)
24	11/2-18 UNEF	2.188 (55.6)	1.750(44.5)	2.000 (50.8)	1.510 (38.4)	.719 (18.3)
28	13/4-18 UNEF	2.438 (61.9)	2.000 (50.8)	2.250 (57.2)	1.760 (44.7)	.844 (21.4)
32	2-18 UNEF	2.688 (68.3)	2.250 (57.2)	2.500 (63.5)	2.010 (51.1)	.969 (24.6)
36	2 1/4-16 UN	2.938 (74.6)	2.500 (63.5)	2.750 (69.9)	2.260 (57.4)	1.089 (27.7)
40	2 1/2-16 UN	3.188 (81.0)	2.750 (69.9)	3.000 (76.2)	2.510 (63.8)	1.219 (31.0)
44	2 3/4-16 UN	3.438 (87.3)	3.000 (76.2)	3.250 (82.6)	2.760 (70.1)	1.344 (34.1)
48	3-16 UN	3.688(93.7)	3.250(82.6)	3.500(88.9)	3.010(76.5)	1.469(37.3)

TABLE II: MATERIAL / FINISH

Sym	Finish
<b>Aluminum Alloy</b>	
<b>B</b>	Cadmium Plate / Olive Drab
<b>M</b>	Electroless Nickel
<b>N</b>	Cad Plate / Olive Drab over Nickel Plate
<b>NF</b>	Cad / O.D. over Electroless Nickel (500 hr. Salt Spray)
<b>TZ</b>	Tin zinc, yellow to brown chromate, RoHS
<b>MT</b>	Nickel-PTFE
<b>Stainless Steel</b>	
<b>ZU</b>	Black Cad / Nickel Strike
<b>ZTZ</b>	Tin zinc, yellow to brown chromate, RoHS

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