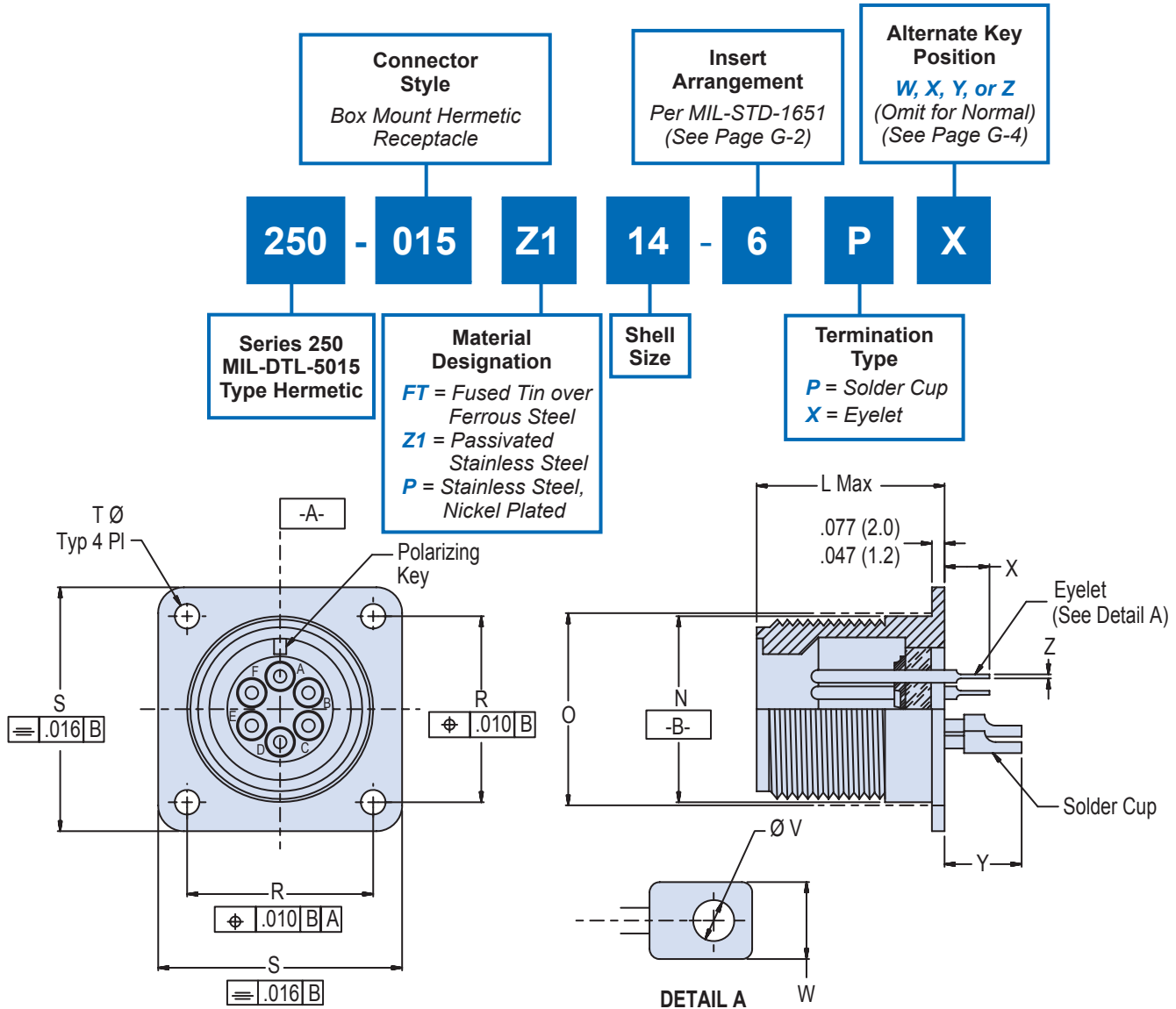


250-015 MIL-DTL-5015 Type Hermetic Threaded Coupling Box Mount Receptacle Connector MS3142 Type

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APPLICATION NOTES

- Material/Finish:
Shell: FT - Fused Tin over Carbon Steel
Z1 - Passivated Stainless Steel
P - Stainless Steel, Nickel Plated
- Assembly to be identified with Glenair's name, part number and date code, space permitting.
- Performance:
Hermeticity - $< 1 \times 10^{-6}$ cc/Sec @ 1 atmosphere differential.
Dielectric Withstanding Voltage - See Table II.
Insulation Resistance - 5000 Megohms minimum @ 500VDC.
- Glenair 250-015 will mate with any MIL-DTL-5015 threaded coupling plug of same size and insert polarization.
- Metric dimensions (mm) are in parenthesis.

Dimensions in Inches (millimeters) are subject to change without notice.

250-015
MIL-DTL-5015 Type Hermetic
Threaded Coupling Box Mount Receptacle Connector
MS3142 Type



MIL-DTL-5015
Type

TABLE I: CONTACT DIMENSIONS

Contact Size	X Max	Y Max	Z Min	V Min	W Max
16	.219 (5.6)	.375 (9.5)	.020 (0.5)	.065 (1.7)	.115 (2.9)
12	.281 (7.1)	.516 (13.1)	.020 (0.5)	.096 (2.4)	.190 (4.8)
8	.700 (17.8)	.719 (18.3)	.040 (1.0)	.135 (3.4)	.330 (8.4)
4	.900 (22.9)	.980 (24.9)	.050 (1.3)	.220 (5.6)	.440 (11.2)
0	.900 (22.9)	.980 (24.9)	.090 (2.3)	.335 (8.5)	.605 (15.4)

Note: Contact sizes 4 and 0 are not available for "S" size shells (8S, 10S, 10SL, 12S, 14S, and 16S) and size 12 and 14

TABLE II: SERVICE RATING

Service Rating	Working Voltage (Volts RMS)
INST	200
A	500
D	900
E	1250
B	1750
C	3000

HERMETIC LEAK RATE MOD CODES

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

TABLE III: CONNECTOR DIMENSIONS

Size	L Max		N Dia +.000 -.062 (+.000 -.1.6)	O Dia (Ref) Mtg Hole	R T.P C——C	S .031 (0.79)	T Dia ± .005 (0.13)
	Contact Size						
	16, 12 & 8	4 & 0					
8S	.730 (18.5)	-	.532 (13.5)	.562 (14.3)	.594 (15.1)	.875 (22.2)	.120 (3.0)
10S	.730 (18.5)	-	.656 (16.7)	.688 (17.5)	.719 (18.3)	1.000 (25.4)	.120 (3.0)
10SL	.730 (18.5)	-	.656 (16.7)	.688 (17.5)	.719 (18.3)	1.000 (25.4)	.120 (3.0)
12S	.730 (18.5)	-	.782 (19.9)	.812 (20.6)	.812 (20.6)	1.094 (27.8)	.120 (3.0)
12	.915 (23.2)	-	.782 (19.9)	.812 (20.6)	.812 (20.6)	1.094 (27.8)	.120 (3.0)
14S	.730 (18.5)	-	.906 (23.0)	.938 (23.8)	.906 (23.0)	1.188 (30.2)	.120 (3.0)
14	.915 (23.2)	-	.906 (23.0)	.938 (23.8)	.906 (23.0)	1.188 (30.2)	.120 (3.0)
16S	.730 (18.5)	1.040 (26.4)	1.032 (26.2)	1.062 (27.0)	.969 (24.6)	1.281 (32.5)	.120 (3.0)
16	.915 (23.2)	1.040 (26.4)	1.032 (26.2)	1.062 (27.0)	.969 (24.6)	1.281 (32.5)	.120 (3.0)
18	.915 (23.2)	1.040 (26.4)	1.156 (29.4)	1.188 (30.2)	1.062 (27.0)	1.375 (34.9)	.120 (3.0)
20	.915 (23.2)	1.040 (26.4)	1.282 (32.6)	1.312 (33.3)	1.156 (29.4)	1.500 (38.1)	.120 (3.0)
22	.915 (23.2)	1.040 (26.4)	1.406 (35.7)	1.438 (36.5)	1.250 (31.8)	1.625 (41.3)	.120 (3.0)
24	.915 (23.2)	1.040 (26.4)	1.532 (38.9)	1.562 (39.7)	1.375 (34.9)	1.750 (44.5)	.147 (3.7)
28	.915 (23.2)	1.040 (26.4)	1.782 (45.3)	1.812 (46.0)	1.562 (39.7)	2.000 (50.8)	.147 (3.7)
32	.915 (23.2)	1.040 (26.4)	2.032 (51.6)	2.062 (52.3)	1.750 (44.5)	2.250 (57.2)	.173 (4.4)
36	.915 (23.2)	1.040 (26.4)	2.282 (58.0)	2.312 (58.7)	1.938 (49.2)	2.500 (63.5)	.173 (4.4)
40	.915 (23.2)	1.040 (26.4)	2.532 (64.3)	2.562 (65.1)	2.188 (55.6)	2.750 (69.9)	.173 (4.4)
44	.915 (23.2)	1.040 (26.4)	2.782 (70.7)	2.812 (71.4)	2.375 (60.3)	3.000 (76.2)	.173 (4.4)
48	.915 (23.2)	1.040 (26.4)	3.032 (77.0)	3.062 (77.8)	2.625 (66.7)	3.250 (82.6)	.173 (4.4)

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