



PRODUCT FEATURES

- Stainless Steel, Aluminum and Composite Versions
- Hermetic and Environmental
- 2 to 18 Pin Layouts
- Plugs, Receptacles and Bulkhead Feed-Thrus
- Solder Mounts, Flange Mount and Jam-Nut Versions
- Keyed Polarization
- Special Swivel-Lanyard Quick Disconnect Designs

Corrosion Resistant Stainless Steel and Composite Mil-DTL-5015 Type Harsh Environment Connectors

Originally Designed for Use in Oil Patch Applications, this Connector is Ideal for all Harsh Environmental Settings

Glenair's line of 5015 Type Harsh Environment Connectors are designed to provide outstanding corrosion resistance and rugged performance. These stainless steel, aluminum and composite thermoplastic plugs and receptacles are ideally suited for severe environments such as geophysical exploration, mining and other settings where resistance to extreme temperatures, salt spray and caustic chemicals is a critical requirement.

Fully compliant with the Mil-DTL-5015 specification, the connectors offer additional design features and materials advantages which make them exceptional values for many interconnect applications. Composite versions are manufactured from a 40% glass filled Ryton engineering plastic. Ryton is a high temperature, injection molded material with good mechanical properties and excellent chemical resistance at elevated temperatures, up to 500° F. The material provides outstanding resistance to a broad spectrum of aggressive chemicals and has very stable dielectric and insulating properties.

The connectors are designed for rugged field use, and feature large profile knurlings for ease of handling, and anti-decoupling springs for maintenance-free performance. A complete range of pin sizes and insert arrangements are available.

190-007-6 Composite Connector, Plug Environment Resistant MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 190 - 007 - 6 - 14S - 5 P W M

PRODUCT SERIES

BASIC NO

6 = PLUG ASSEMBLY

SHELL SIZE, TABLE I

INSERT ARRANGEMENT DASH NO.

CONTACT STYLE :

P = PIN

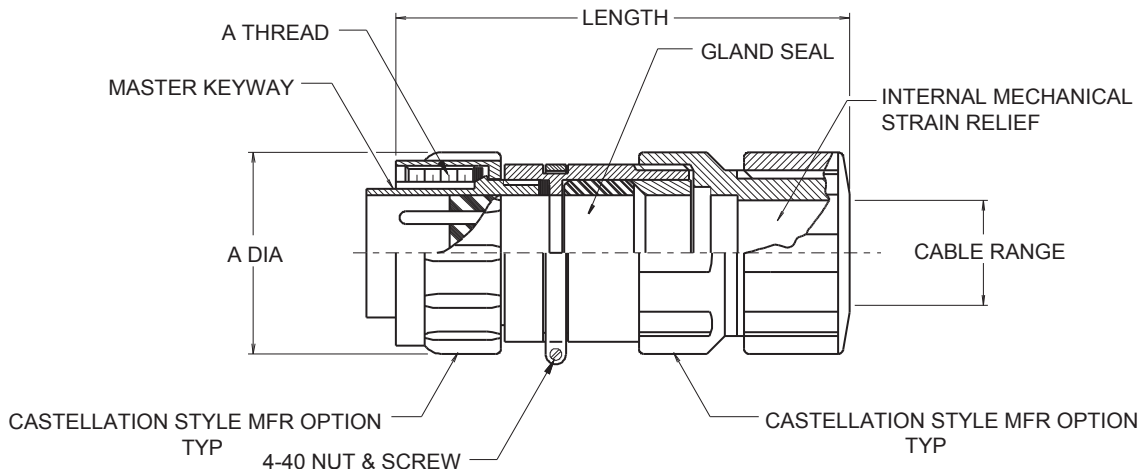
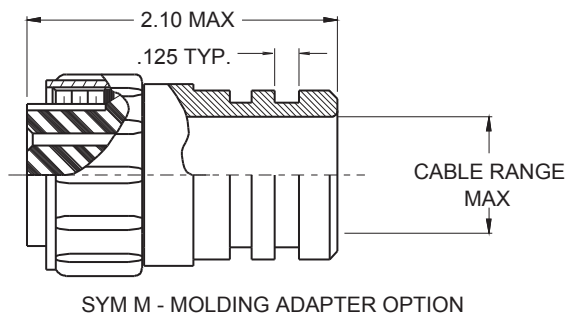
S = SOCKET

ALTERNATE INSERT POSITION, OMIT FOR NORMAL

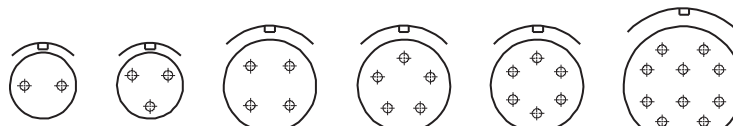
M = MOLDING ADAPTER

C = CONNECTOR ONLY (NO ADAPTER)

OMIT FOR STANDARD



INSERT ARRANGEMENTS FACE VIEW OF PIN INSERT SHOWN



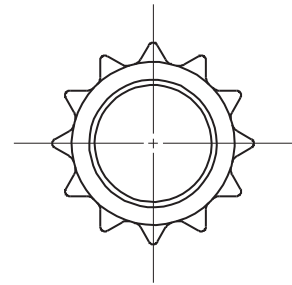
INSERT ARRANGEMENT:	10SL-4	10SL-3	14S-2	14S-5	14S-6	18-1
CONTACT SIZE & QUANTITY:	2 - #16	3 - #16	4 - #16	5 - #16	6 - #16	10 - #16
MS SERVICE RATING:	A	A	INST	INST	INST	4A 6 INST

190-007-6
Composite Connector, Plug
Environment Resistant
MIL-DTL-5015 Type



MIL-DTL-5015

TABLE I: CONNECTOR DIMENSIONS						
SHELL SIZE	A MAX	B FLATS	STD CABLE RANGE		CONFIGURATION STYLE	LENGTH MAX
			MIN	MAX		
10SL	1.15 (29.2)	.87 (22.1)	.203 (5.2)	.375 (9.5)	I	3.00
14S	1.33 (33.8)	.87 (22.1)	.203 (5.2)	.375 (9.5)	I	3.00
18	1.60 (40.6)	1.00 (25.4)	.328 (8.3)	.500 (12.7)	I	3.00



NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. GLENAIR 190-007 CONNECTOR FEATURES:
 - A. BARREL, COUPLING NUT & REAR ACCESSORY HARDWARE: HIGH GRADE ENGINEERING THERMOPLASTIC (RYTON).
 - B. INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE
 - C. GROMMET FOLLOWER: NYLON
 - D. CONTACTS: GOLD PLATED COPPER ALLOY WITH SOLDER POTS .
 - E. CONTACT CURRENT RATING: #20-5 AMPS, #16-10 AMPS, #12-17 AMPS, #8-35 AMPS.
 - F. RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC
SERVICE RATING A - 700 VDC
 - G. DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS
A - 2000 VRMS
 - H. INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25AC
 - J. TEMPERATURE RANGE: -55AC TO +125AC
3. ELECTRICAL SAFETY LIMITS MUST BE ESTABLISHED BY THE USER .
PEAK VOLTAGES, SWITCHING SURGES, TRANSIENTS, ETC., SHOULD
BE USED TO DETERMINE THE SAFETY OF APPLICATION .

HOW TO ORDER:

EXAMPLE: 190 - 007 - 7 - 14S - 5 P W M

PRODUCT SERIES _____

BASIC NO _____

7 = RECEPTACLE ASSEMBLY _____

SHELL SIZE, TABLE I _____

INSERT ARRANGEMENT DASH NO. _____

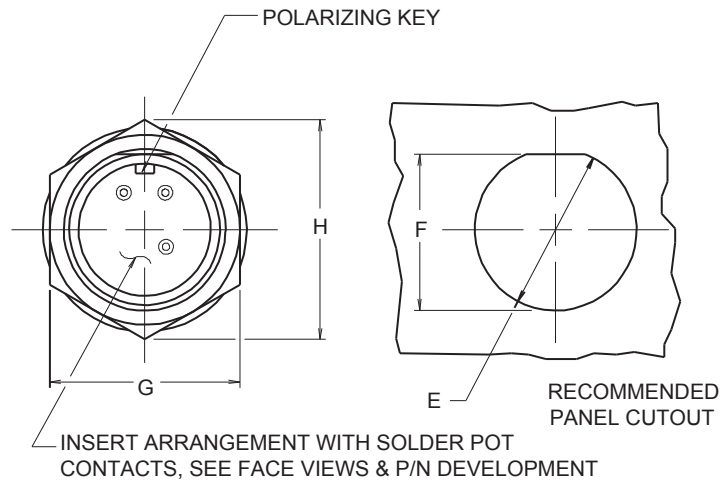
CONTACT STYLE : _____

P = PIN

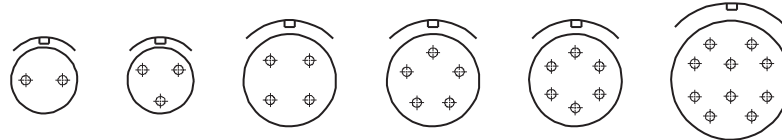
S = SOCKET

ALTERNATE INSERT POSITION, N, W, X, Y OR Z _____

M = MOLDING ADAPTER, OMIT FOR NONE _____



INSERT ARRANGEMENTS FACE VIEW OF PIN INSERT SHOWN



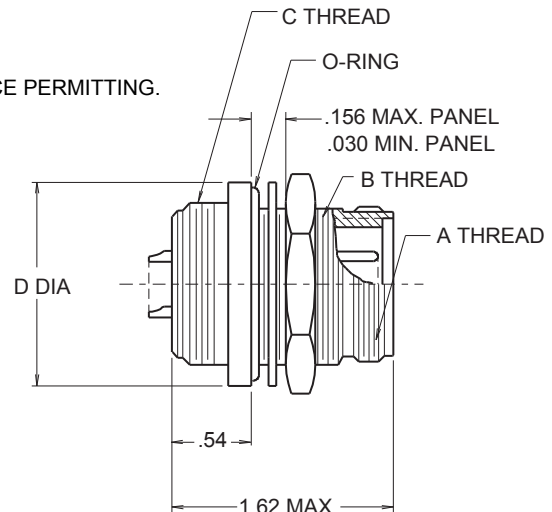
INSERT ARRANGEMENT: 10SL-4	10SL-3	14S-2	14S-5	14S-6	18-1
CONTACT SIZE & QUANTITY: 2 - #16	3 - #16	4 - #16	5 - #16	6 - #16	10 - #16
MS SERVICE RATING: A	A	INST	INST	INST	4A 6 INST

TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE	A THREAD CLASS 2A	B THREAD CLASS 2A	C THREAD CLASS 2A	D DIA MAX	E DIA +.010 - .000 (+0.3 - 0)	F +.010 - .000 (+0.3 - 0)	G FLATS	H MAX
10SL	.625-.1P-1L	3/4 -20 UNEF	5/8 -24 UNEF	1.10 (27.9)	.760 (19.3)	.710 (18.0)	.938 (23.8)	1.09 (27.7)
14S	.875-.1P-1L	1 -20 UNEF	7/8 -20 UNEF	1.45 (36.8)	1.010 (25.7)	.960 (24.4)	1.250 (31.8)	1.44 (36.6)
18	1.125-.1P-1L	1 1/4 -18 UNEF	1 1/8 -16 UN	1.75 (44.5)	1.260 (32.0)	1.210 (30.7)	1.500 (38.1)	1.73 (43.9)

NOTES:

- ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
- GLENAIR 190-007 CONNECTOR FEATURES :
 - SHELL: HIGH GRADE ENGINEERING THERMOPLASTIC (RYTON).
 - INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE
 - CONTACTS: GOLD PLATED COPPER ALLOY WITH SOLDER POTS
 - CONTACT CURRENT RATING: #16-10 AMPS.
 - RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC
SERVICE RATING A - 700 VDC
 - DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS, A - 2000 VRMS
 - INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25AC
 - TEMPERATURE RANGE: -55AC TO +125AC
- ELECTRICAL SAFETY LIMITS MUST BE ESTABLISHED BY THE USER . PEAK VOLTAGES, SWITCHING SURGES, TRANSIENTS, ETC., SHOULD BE USED TO DETERMINE THE SAFETY OF APPLICATION .



To Most People It's Just a Rubber Connector Cover



At Glenair It's a Good Ol' "Marshal Bean"

We're always hard at work at Glenair developing new and improved interconnect products and accessories. Our "Marshal Bean" Protective Rubber Covers are a fine example—even if they *have* been around for a month of Sunday's.

"Marshal Beans" provide robust physical and environmental protection while eliminating the damage caused when metal connector covers bang against equipment housings, or when test cables get dragged across the shop floor! The covers come in two material types: a flex-

ible neoprene rubber or a proprietary conductive material which dissipates static electricity.

Glenair Bean Rubber Covers have been available for years, but this catalog introduces four new universal models that make order-entry a snap for standard MIL-C-24308 D-Subminiature's, MIL-DTL-83513 Micro-D's, ARINC 400's and all uniformly rectangular connectors. At Glenair, we reckon a flexible rubber cover is the perfect way to protect an interconnect cable. So isn't it time you hired "Marshal Bean" to ride herd on your connector investment?



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United States · United Kingdom · Germany · Nordic · France · Italy · Spain

www.glenair.com

250-013 Hermetic Receptacle, Panel Mount MIL-DTL-5015 Type (MS3142)

HOW TO ORDER:

EXAMPLE: 250-013 Z1 14 - 6 P X

BASIC PART NUMBER 250-013

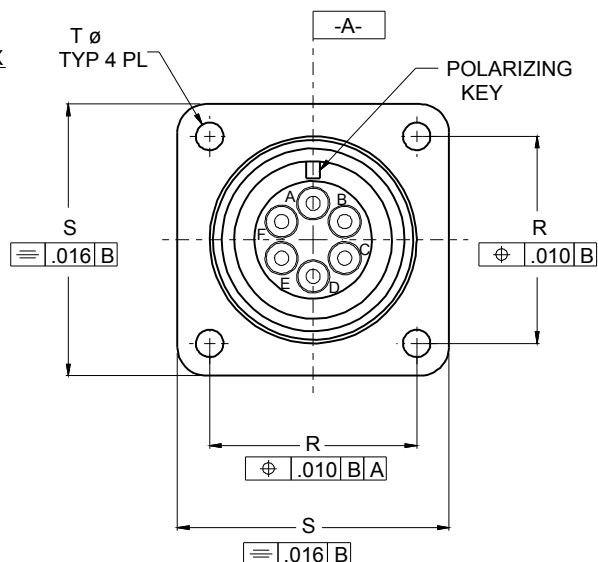
MATERIAL DESIGNATION Z1
FT - FUSED TIN OVER FERROUS STEEL
Z1 - PASSIVATED STAINLESS STEEL

SHELL SIZE 14

INSERT ARRANGEMENT PER MIL-STD-1651 -

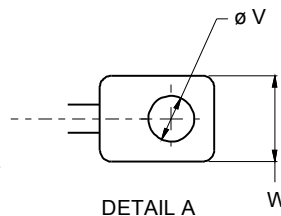
TERMINATION TYPE P
P - SOLDER CUP
X - EYELET

ALTERNATE INSERT POSITION X
W, X, Y, OR Z
OMIT FOR NORMAL



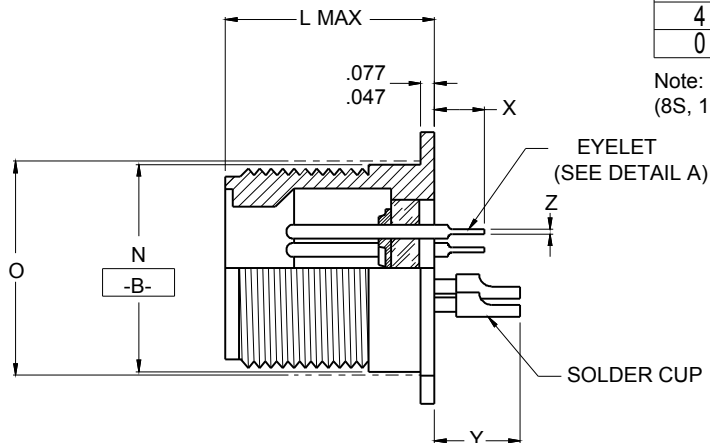
NOTES:

- MATERIAL/FINISH:**
SHELL: FT - FUSED TIN OVER CARBON STEEL
Z1 - PASSIVATED STAINLESS STEEL
CONTACTS: 52 NICKEL ALLOY/ GOLD PLATE
SEALS: SILICONE ELASTOMER
INSULATION: GLASS BEADS, NOIBN
- ASSEMBLY TO BE IDENTIFIED WITH GLENAIR'S NAME, PART NUMBER AND DATE CODE SPACE PERMITTING.
- PERFORMANCE:**
HERMETICITY: $<1 \times 10^{-6}$ SCCH/SEC @ 1 ATMOSPHERE DIFFERENTIAL
DIELECTRIC WITHSTANDING VOLTAGE: SEE TABLE ON SHEET #2
INSULATION RESISTANCE: 5000 MEGOHMS MIN @ 500VDC
- GLENAIR 250-013 WILL MATE WITH ANY MIL-C-5015 SERIES THREADED COUPLING PLUG OF SAME SIZE AND INSERT POLARIZATION



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



250-013
Hermetic Receptacle, Panel Mount
MIL-DTL-5015 Type (MS3142)



MIL-DTL-5015

TABLE I: CONTACT LAYOUT

PATTERN NUMBER	CONTACT SIZE AND QUANTITY					SERVICE RATING
	16 GA	12 GA	8 GA	4 GA	0 GA	
8S-1	1					A
10S-2	1					A
10SL-3	3					INST
10SL-4	4					A
12S-3	2					A
12S-4	1					D
14S-1	3					A
14S-2	4					INST
14S-4	1					O
14S-5	5					INST
14S-6	6					INST
14S-7	3					A
14S-9	2					A
16S-1	7					A
16S-3	1					B
16S-4	2					D
16S-5	3					A
16S-6	3					A
16S-8	5					A
16-9	2	2				A
16-10		3				A
16-11		2				A
18-1	10					A/INST
18-4		4				D
18-8	7	1				A
18-9	5	2				INST
18-10		4				A
18-11		5				A
18-12	6					A
20-4		4				D
20-7	8					D/A
20-8	4					INST
20-14		3				A
20-15		7				A
20-16	7	2				A
20-17	1	5				A
20-18	6	3				A
20-19			3			A

TABLE I (CONTINUED): CONTACT LAYOUT

PATTERN NUMBER	CONTACT SIZE AND QUANTITY					SERVICE RATING
	16 GA	12 GA	8 GA	4 GA	0 GA	
20-22	3		3			A
20-24	2		2			A
20-27	14					A
20-29	17					A
20-33	11					A
22-2			3			D
22-5	4	2				D
22-9		3				E
22-14	19					A
22-18	8					A/D
22-19	14					A
22-20	9					A
22-22			4			A
22-23		8				D/A
24-2		7				D
24-4	3					D
24-7	14	2				A
24-10			7			A
24-11		6	3			A
24-19	12					A
24-20	9	2				D
24-27	7					E
24-28	24					INST
28-9	6	6				D
28-11	18	4				A
28-12	26					A
28-15	35					A
28-17	15					B/D/A
28-20	4	10				A
28-21	37					A
32-6	3	2	3	2		A
32-7	28	7				INST/A
32-8	24	6				A
32-15		6			2	D
32-17				4		D
36-5					4	A
36-7	40	7				A
36-9	14	14	2	1		A
36-10	48					A

TABLE II: CONNECTOR DIMENSIONS

SIZE	L MAX CONTACT SIZE		Ø N + .000 - .062 (+0 - 1.6)	Ø O (REF) MTG HOLE	R T.P C—C	S ± .031 (0.8)	T Ø ± .005 (0.1)
	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)	
10SL	.730 (18.5)		.656 (16.7)	.688 (17.5)	.719 (18.3)	1.000 (25.4)	
12S	.730 (18.5)		.782 (19.9)	.812 (20.6)	.812 (20.6)	1.094 (27.8)	
12	.915 (23.2)		.782 (19.9)	.812 (20.6)	.812 (20.6)	1.094 (27.8)	
14S	.730 (18.5)		.906 (23.0)	.938 (23.8)	.906 (23.0)	1.188 (30.2)	
14	.915 (23.2)		.906 (23.0)	.938 (23.8)	.906 (23.0)	1.188 (30.2)	
16S	.730 (18.5)	1.040 (26.4)	1.032 (26.2)	1.062 (27.0)	.969 (24.6)	1.281 (32.5)	
16	.915 (23.2)		1.032 (26.2)	1.062 (27.0)	.969 (24.6)	1.281 (32.5)	
18			1.156 (29.4)	1.188 (30.2)	1.062 (27.0)	1.375 (34.9)	
20			1.282 (32.6)	1.312 (33.3)	1.156 (29.4)	1.500 (38.1)	.120 (3.0)
22			1.406 (35.7)	1.438 (36.5)	1.250 (31.8)	1.625 (41.3)	.147 (3.7)
24			1.532 (38.9)	1.562 (39.7)	1.375 (34.9)	1.750 (44.5)	.147 (3.7)
28			1.782 (45.3)	1.812 (46.0)	1.562 (39.7)	2.000 (50.8)	.173 (4.4)
32			2.032 (51.6)	2.062 (52.4)	1.750 (44.5)	2.250 (57.2)	
36			2.282 (58.0)	2.312 (58.7)	1.938 (49.2)	2.500 (63.5)	
40			2.532 (64.3)	2.562 (65.1)	2.188 (55.6)	2.750 (69.9)	
44			2.782 (70.7)	2.812 (71.4)	2.375 (60.3)	3.000 (76.2)	
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)

TABLE III: SERVICE RATING

SERVICE RATING	WORKING VOLTAGES (VOLTS-RMS)
INST	200
A	500
D	900
E	1250
B	1750
C	3000

250-014 Hermetic Receptacle, Solder Mount MIL-DTL-5015 Type (MS3143)

HOW TO ORDER:

EXAMPLE: 250-014 Z1 14 - 6 P X

BASIC PART NUMBER 250-014

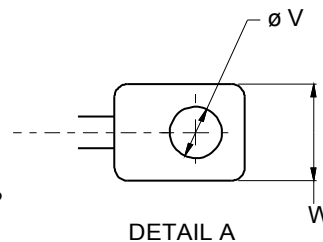
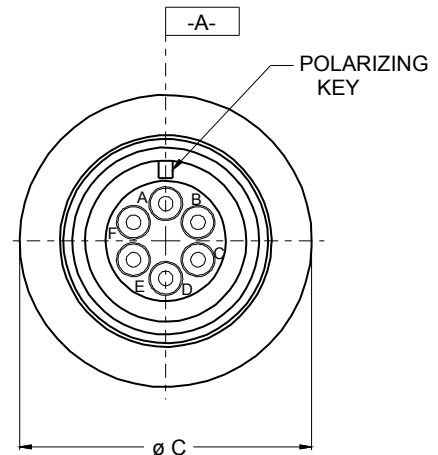
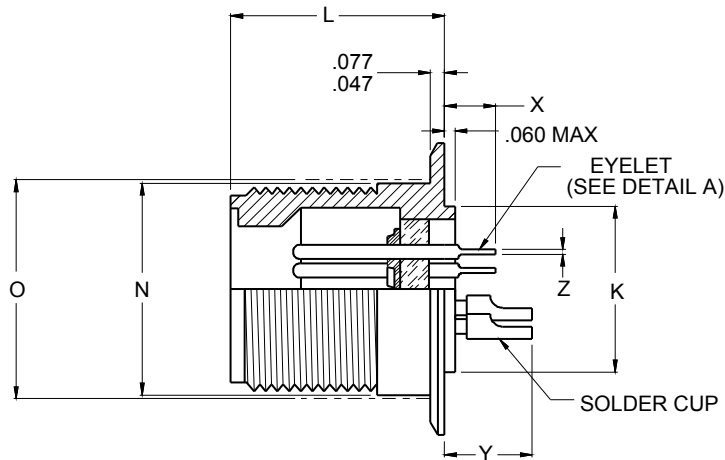
MATERIAL DESIGNATION Z1
FT - FUSED TIN OVER FERROUS STEEL
Z1 - PASSIVATED STAINLESS STEEL

SHELL SIZE 14

INSERT ARRANGEMENT PER MIL-STD-1651 -

TERMINATION TYPE 6
P - SOLDER CUP
X - EYELET

ALTERNATE INSERT POSITION X
W, X, Y, OR Z
OMIT FOR NORMAL



NOTES:

1. MATERIAL/FINISH:

SHELL: FT - FUSED TIN OVER CARBON STEEL
Z1 - PASSIVATED STAINLESS STEEL
CONTACTS: 52 NICKEL ALLOY/ GOLD PLATE
SEALS: SILICONE ELASTOMER
INSULATION: GLASS BEADS, NOIBN

2. ASSEMBLY TO BE IDENTIFIED WITH GLENAIR'S NAME, PART NUMBER AND DATE CODE SPACE PERMITTING.

3. PERFORMANCE:

HERMETICITY: $<1 \times 10^{-6}$ SCCHE/SEC @ 1 ATMOSPHERE DIFFERENTIAL
DIELECTRIC WITHSTANDING VOLTAGE: SEE TABLE ON SHEET #2
INSULATION RESISTANCE: 5000 MEGOHMS MIN @ 500VDC

4. GLENAIR 250-014 WILL MATE WITH ANY MIL-C-5015 SERIES THREADED COUPLING PLUG OF SAME SIZE AND INSERT POLARIZATION

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

250-014
Hermetic Receptacle, Solder Mount
MIL-DTL-5015 Type (MS3143)



MIL-DTL-5015

TABLE I: CONTACT LAYOUT

PATTERN NUMBER	CONTACT SIZE AND QUANTITY					SERVICE RATING
	16 GA	12 GA	8 GA	4 GA	0 GA	
8S-1	1					A
10S-2	1					A
10SL-3	3					INST
10SL-4	4					A
12S-3	2					A
12S-4	1					D
14S-1	3					A
14S-2	4					INST
14S-4	1					O
14S-5	5					INST
14S-6	6					INST
14S-7	3					A
14S-9	2					A
16S-1	7					A
16S-3	1					B
16S-4	2					D
16S-5	3					A
16S-6	3					A
16S-8	5					A
16-9	2	2				A
16-10		3				A
16-11		2				A
18-1	10					A/INST
18-4		4				D
18-8	7	1				A
18-9	5	2				INST
18-10		4				A
18-11		5				A
18-12	6					A
20-4		4				D
20-7	8					D/A
20-8	4					INST
20-14		3				A
20-15		7				A
20-16	7	2				A
20-17	1	5				A
20-18	6	3				A
20-19			3			A

TABLE I (CONTINUED): CONTACT LAYOUT

PATTERN NUMBER	CONTACT SIZE AND QUANTITY					SERVICE RATING
	16 GA	12 GA	8 GA	4 GA	0 GA	
20-22	3		3			A
20-24	2		2			A
20-27	14					A
20-29	17					A
20-33	11					A
22-2			3			D
22-5	4	2				D
22-9		3				E
22-14	19					A
22-18	8					A/D
22-19	14					A
22-20	9					A
22-22			4			A
22-23		8				D/A
24-2		7				D
24-4	3					D
24-7	14	2				A
24-10			7			A
24-11		6	3			A
24-19	12					A
24-20	9	2				D
24-27	7					E
24-28	24					INST
28-9	6	6				D
28-11	18	4				A
28-12	26					A
28-15	35					A
28-17	15					B/D/A
28-20	4	10				A
28-21	37					A
32-6	3	2	3	2		A
32-7	28	7				INST/A
32-8	24	6				A
32-15		6			2	D
32-17				4		D
36-5					4	A
36-7	40	7				A
36-9	14	14	2	1		A
36-10	48					A

TABLE II: CONNECTOR DIMENSIONS

SIZE	C Ø	K Ø	L MAX		Ø N + .000 - .062 (+0 - 1.6)	Ø O (REF) MTG HOLE
	±.010 (±0.3)	±.010 (±0.3)	CONTACT SIZE			
			16, 12 & 8	4 & 0		
8S	.750 (19.1)	.428 (10.9)	.730 (18.5)		.532 (13.5)	.562 (14.3)
10S	.875 (22.2)	.490 (12.4)	.730 (18.5)		.656 (16.7)	.688 (17.5)
10SL	.875 (22.2)	.490 (12.4)	.730 (18.5)		.656 (16.7)	.688 (17.5)
12S	1.000 (25.4)	.646 (16.4)	.730 (18.5)		.782 (19.9)	.812 (20.6)
12	1.000 (25.4)	.646 (16.4)	.915 (23.2)		.782 (19.9)	.812 (20.6)
14S	1.125 (28.6)	.709 (18.0)	.730 (18.5)		.906 (23.0)	.938 (23.8)
14	1.125 (28.6)	.709 (18.0)	.915 (23.2)		.906 (23.0)	.938 (23.8)
16S	1.250 (31.8)	.834 (21.2)	.730 (18.5)	1.040 (26.4)	1.032 (26.2)	1.062 (27.0)
16	1.250 (31.8)	.834 (21.2)	.915 (23.2)		1.032 (26.2)	1.062 (27.0)
18	1.375 (34.9)	.959 (24.4)			1.156 (29.4)	1.188 (30.2)
20	1.500 (38.1)	1.146 (29.1)			1.282 (32.6)	1.312 (33.3)
22	1.625 (41.3)	1.240 (31.5)			1.406 (35.7)	1.438 (36.5)
24	1.750 (44.5)	1.365 (34.7)			1.532 (38.9)	1.562 (39.7)
28	2.000 (50.8)	1.615 (41.0)			1.782 (45.3)	1.812 (46.0)
32	2.250 (57.2)	1.865 (47.4)			2.032 (51.6)	2.062 (52.4)
36	2.500 (63.5)	2.115 (53.7)			2.282 (58.0)	2.312 (58.7)
40	2.750 (69.9)	2.365 (60.1)			2.532 (64.3)	2.562 (65.1)
44	3.000 (76.2)	2.615 (66.4)			2.782 (70.7)	2.812 (71.4)
48	3.250 (82.6)	2.865 (72.8)	.915 (23.2)	1.040 (26.4)	3.032 (77.0)	3.062 (77.8)

TABLE III: SERVICE RATING

SERVICE RATING	WORKING VOLTAGES (VOLTS-RMS)
INST	200
A	500
D	900
E	1250
B	1750
C	3000

257-003-2 Stainless Steel, Jam Nut Mount Receptacle MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 257 - 003 H 2 - 14S - 5 P W M

PRODUCT SERIES _____

BASIC NO _____

H = HERMETIC
OMIT FOR STD, SUBSTITUTE DASH

2 = RECEPTACLE ASSEMBLY _____

SHELL SIZE, TABLE I _____

INSERT ARRANGEMENT DASH NO. _____

CONTACT STYLE : _____
P = PIN
S = SOCKET (NON HERMETIC ONLY)

ALTERNATE INSERT POSITION, OMIT FOR NORMAL _____

M = MOLDING ADAPTER, OMIT FOR NONE _____

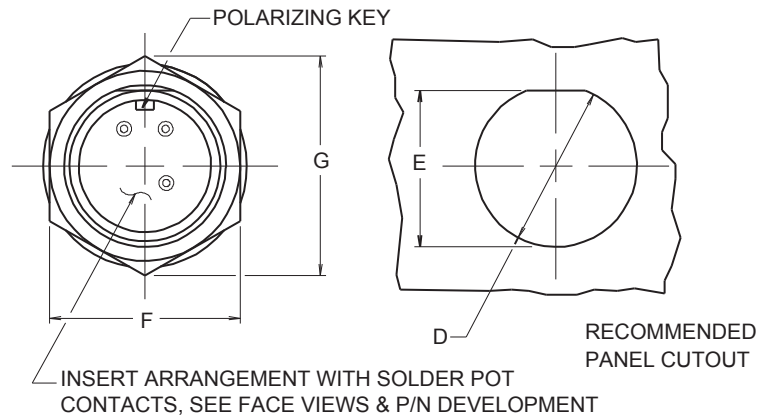
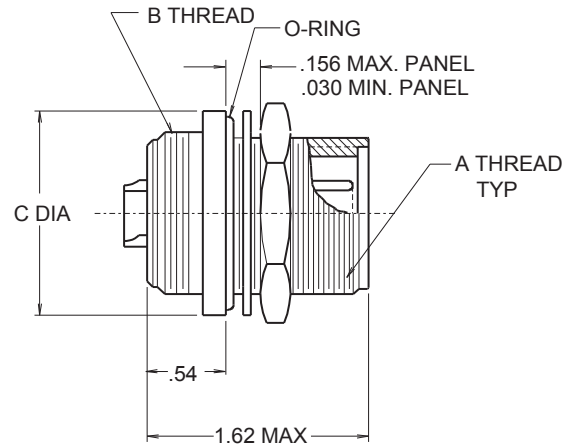


TABLE I: CONNECTOR DIMENSIONS							
SHELL SIZE	A THREAD CLASS 2A	B THREAD CLASS 2A	C DIA MAX	D DIA +.010 - .000 (+0.3 - 0)	E +.010 - .000 (+0.3 - 0)	F MAX	G MAX
10SL	5/8 -24 UNEF	5/8 -24 UNEF	1.03 (26.2)	.635 (16.1)	.585 (14.9)	.812 (20.6)	.94 (23.9)
12	3/4 -20 UNEF	3/4 -20 UNEF	1.16 (29.5)	.760 (19.3)	.710 (18.0)	.938 (23.8)	1.09 (27.7)
14S	7/8 -20 UNEF	7/8 -20 UNEF	1.28 (32.5)	.885 (22.5)	.835 (21.2)	1.125 (28.6)	1.25 (31.8)
18	1 1/8 -18 UNEF	1 1/8 -16 UN	1.66 (42.2)	1.135 (28.8)	1.085 (27.6)	1.500 (38.1)	1.69 (42.9)
20	1 1/4 -18 UNEF	1 1/4 -16 UN	1.78 (45.2)	1.260 (32.0)	1.210 (30.7)	1.625 (41.3)	1.82 (46.2)
24	1 1/2 -18 UNEF	1 1/2 -16 UN	2.03 (51.6)	1.510 (38.4)	1.460 (37.1)	1.875 (47.6)	2.12 (53.8)
28	1 3/4 -18 UNS	1 3/4 -18 UN	2.28 (57.9)	1.760 (44.7)	1.710 (43.4)	2.125 (54.0)	2.42 (61.5)

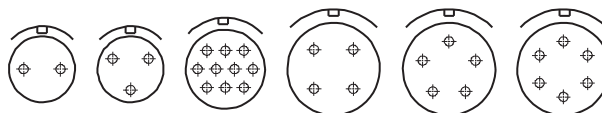
257-003-2 Stainless Steel, Jam Nut Mount Receptacle MIL-DTL-5015 Type



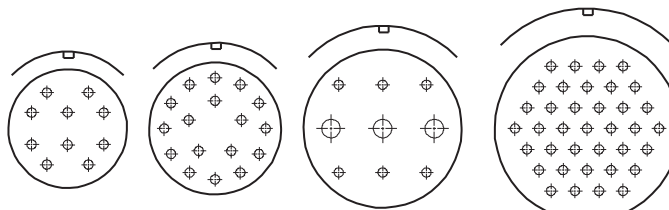
MIL-DTL-5015

INSERT ARRANGEMENTS

FACE VIEW OF PIN INSERT SHOWN



INSERT ARRANGEMENT:	10SL-4	10SL-3	12-10	14S-2	14S-5	14S-6
CONTACT SIZE & QUANTITY:	2 - #16	3 - #16	10 - #20	4 - #16	5 - #16	6 - #16
MS SERVICE RATING:	A	A	INST	INST	INST	INST



INSERT ARRANGEMENT:	18-1	20-29	24-11	28-21
CONTACT SIZE & QUANTITY:	10 - #16	17 - #16	6 - #12, 3 - #8	37 - #16
MS SERVICE RATING:	4A 6 INST	A	A	A

NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. GLENAIR 257-003- CONNECTOR FEATURES :
 - A. SHELL: PASSIVATED STAINLESS STEEL
 - B. INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE
HERMETIC INSULATOR: FULL GLASS/N.A.
 - C. CONTACTS: GOLD PLATED COPPER ALLOY WITH SOLDER POTS
HERMETIC CONTACTS: ALLOY 52/GOLD PLATE
 - D. CONTACT CURRENT RATING: #20-5 AMPS, #16-10 AMPS, #12-17 AMPS, #8-35 AMPS .
 - E. RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC
SERVICE RATING A - 700 VDC
 - F. DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS
A - 2000 VRMS
 - G. INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25°C
 - H. TEMPERATURE RANGE: -55°C TO +125°C
3. PERFORMANCE DATA (HERMETIC ONLY):
 - A. CONTACT CURRENT RATING: 20 AMPS MAX
 - B. RATED OPERATING VOLTAGE: 250 VDC
 - C. DIELECTRIC W/STANDING VOLTAGE (HI-POT): 1000 VRMS
 - D. INSULATION RESISTANCE: 5000 MEGOHMS MIN AT 500 VDC & +25°C
4. ELECTRICAL SAFETY LIMITS MUST BE ESTABLISHED BY THE USER .
PEAK VOLTAGES, SWITCHING SURGES, TRANSIENTS, ETC., SHOULD BE USED TO DETERMINE
THE SAFETY OF APPLICATION .

257-003-6 Stainless Steel Plug Assembly MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 257 - 003 - 6 - 14S - 5 P W M 08

PRODUCT SERIES

BASIC NO

6 = PLUG ASSEMBLY

SHELL SIZE, TABLE I

INSERT ARRANGEMENT DASH NO

CONTACT STYLE:

P = PIN

S = SOCKET

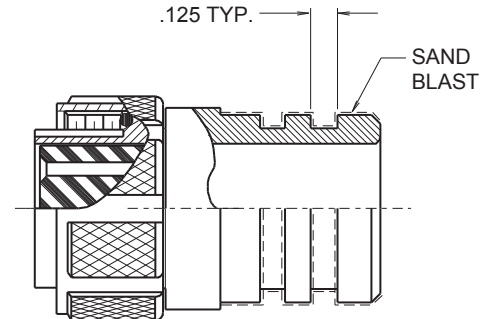
ALTERNATE INSERT POSITION, OMIT FOR NORMAL

M = MOLDING ADAPTER

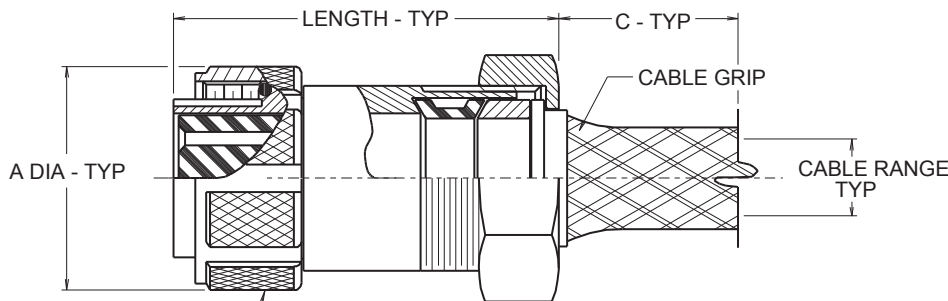
N = NO ADAPTER (CONNECTOR ONLY)

OMIT FOR STANDARD

OPTIONAL ENTRY, TABLE II, OMIT FOR STANDARD



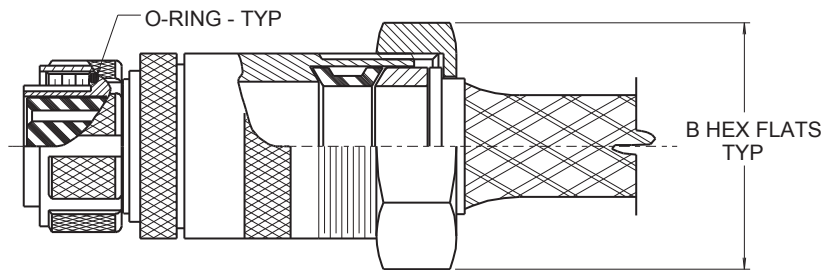
SYM M - MOLDING ADAPTER OPTION



KNURL STYLE MFR OPTION - TYP

STYLE I

TABLE II: CABLE RANGE			
DASH NO	C REF	CABLE RANGE	
		MIN	MAX
03	5.12 (130.0)	.180 (4.6)	.210 (5.3)
04	5.75 (146.1)	.210 (5.3)	.312 (7.9)
06	7.00 (177.8)	.310 (7.9)	.438 (11.1)
08	7.12 (180.8)	.438 (11.1)	.500 (12.7)
10	7.37 (187.2)	.500 (12.7)	.625 (15.9)
12	9.00 (228.6)	.530 (13.5)	.750 (19.1)
14	8.00 (203.2)	.750 (19.1)	.875 (22.2)
16	9.00 (228.6)	.875 (22.2)	1.000 (25.4)



STYLE II

TABLE I: CONNECTOR DIMENSIONS							
SHELL SIZE	A MAX	B FLATS	STD CABLE RANGE		CONFIGURATION STYLE	MAX DASH NO 	LENGTH MAX
			MIN	MAX			
10SL	1.031 (26.2)	1.00 (25.4)	.210 (5.3)	.312 (7.9)	I	04	3.00
12	1.125 (28.6)	1.38 (35.0)	.500 (12.7)	.625 (15.9)	II	08	3.00
14S	1.219 (31.0)	1.00 (25.4)	.210 (5.3)	.312 (7.9)	I	10	3.00
18	1.406 (35.7)	1.22 (31.0)	.310 (7.9)	.438 (11.1)	I	12	3.00
20	1.531 (38.9)	1.50 (38.1)	.530 (13.5)	.750 (19.1)	I	14	3.5
24	1.781 (45.2)	1.50 (38.1)	.530 (13.5)	.750 (19.1)	I	16	3.5
28	2.031 (51.6)	1.50 (38.1)	.530 (13.5)	.750 (19.1)	I	16	3.5

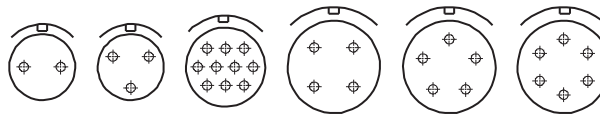
257-003-6
Stainless Steel Plug Assembly
MIL-DTL-5015 Type



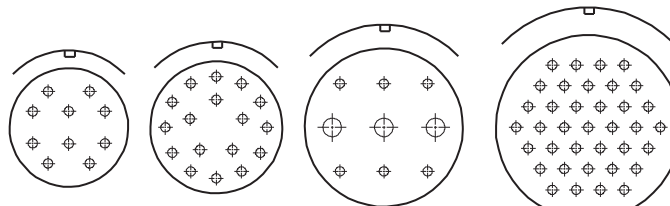
MIL-DTL-5015

INSERT ARRANGEMENTS

FACE VIEW OF PIN INSERT SHOWN



INSERT ARRANGEMENT:	10SL-4	10SL-3	12-10	14S-2	14S-5	14S-6
CONTACT SIZE & QUANTITY:	2 - #16	3 - #16	10 - #20	4 - #16	5 - #16	6 - #16
MS SERVICE RATING:	A	A	INST	INST	INST	INST



INSERT ARRANGEMENT:	18-1	20-29	24-11	28-21
CONTACT SIZE & QUANTITY:	10 - #16	17 - #16	6 - #12, 3 - #8	37 - #16
MS SERVICE RATING:	4A 6 INST	A	A	A

NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. WHEN CABLE DIAMETER EXCEEDS 'MAX DASH NO' IN TABLE I, STYLE II WILL BE SUPPLIED.
3. GLENAIR 257-003 CONNECTOR FEATURES:
 - A. BARREL & REAR ACCESSORY HARDWARE: PASSIVATED STAINLESS STEEL
 - B. COUPLING NUT: NICKEL/ALUMINUM/BRONZE
 - C. INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE
 - D. GROMMET FOLLOWER: NYLON
 - E. CONTACTS: GOLD PLATED COPPER ALLOY WITH SOLDER POTS
 - F. CONTACT CURRENT RATING: #20-5 AMPS, #16-10 AMPS, #12-17 AMPS, #8-35 AMPS
 - G. RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC
 SERVICE RATING A - 700 VDC
 - H. DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS
 A - 2000 VRMS
 - J. INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25°C
 - K. TEMPERATURE RANGE: -55°C TO +125°C

257-005 Stainless Steel Environmental Receptacle with Printed Circuit Contacts MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 257 - 005 H 14S - 5 P W

PRODUCT SERIES 257 - 005

BASIC NO H 14S - 5

H = HERMETIC
OMIT FOR STD, SUBSTITUTE DASH

SHELL SIZE, TABLE I 14S - 5

INSERT ARRANGEMENT DASH NO. P

CONTACT STYLE : W

P = PIN
S = SOCKET (NON HERMETIC ONLY)

ALTERNATE INSERT POSITION, OMIT FOR NORMAL

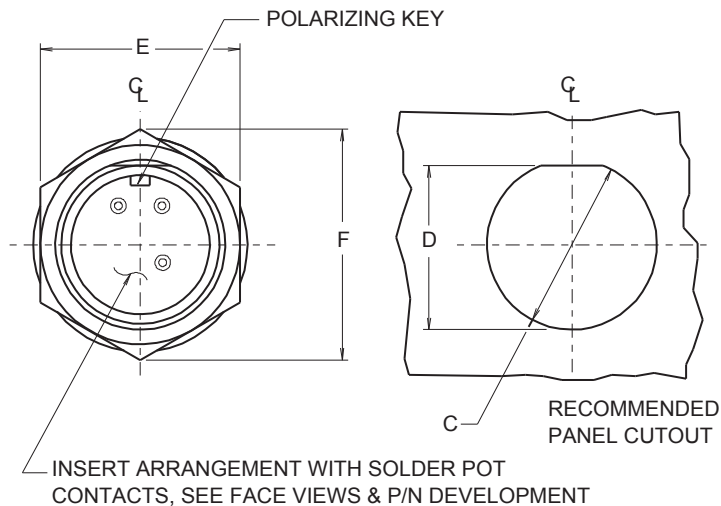
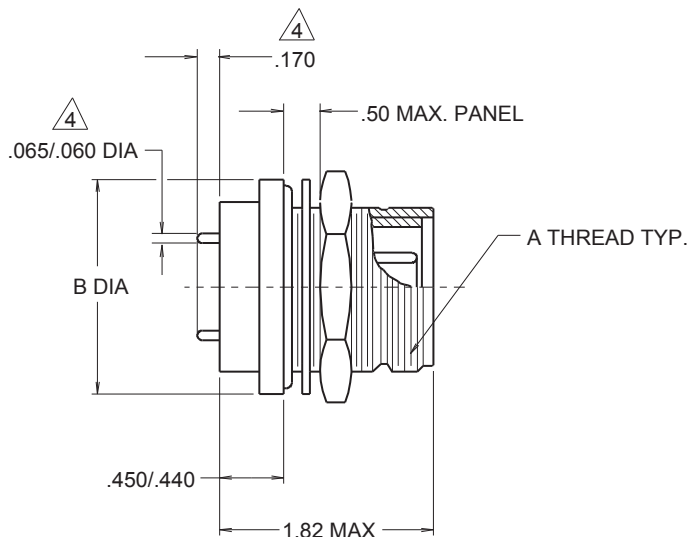


TABLE I: CONNECTOR DIMENSIONS

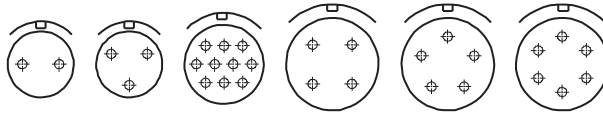
SHELL SIZE	A THREAD CLASS 2A	B DIA MAX	C DIA +.010 - .000 (+0.3 - 0)	D +.010 - .000 (+0.3 - 0)	E FLATS	F REF
10SL	5/8 -24 UNEF	1.03 (26.2)	.635 (16.1)	.585 (14.9)	.870 (22.1)	1.000 (25.4)
12	3/4 -20 UNEF	1.16 (29.5)	.760 (19.3)	.710 (18.0)	.995 (25.3)	1.125 (28.6)
14S	7/8 -20 UNEF	1.28 (32.5)	.885 (22.5)	.835 (21.2)	1.120 (28.4)	1.250 (31.8)
18	1 1/8 -18 UNEF	1.66 (42.2)	1.135 (28.8)	1.085 (27.6)	1.495 (38.0)	1.730 (43.9)
20	1 1/4 -18 UNEF	1.78 (45.2)	1.260 (32.0)	1.210 (30.7)	1.620 (41.1)	1.870 (47.5)
24	1 1/2 -18 UNEF	2.03 (51.6)	1.510 (38.4)	1.460 (37.1)	1.870 (47.5)	2.165 (55.0)
28	1 3/4 -18 UNEF	2.28 (57.9)	1.760 (44.7)	1.710 (43.4)	2.120 (53.8)	2.448 (62.2)

257-005
Stainless Steel Environmental Receptacle
with Printed Circuit Contacts
MIL-DTL-5015 Type

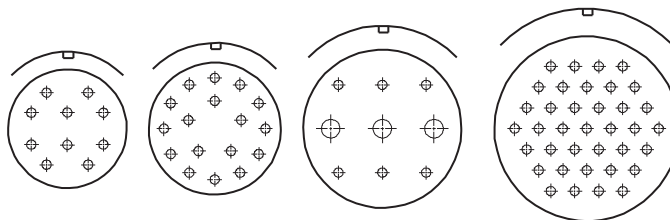


MIL-DTL-5015

INSERT ARRANGEMENTS
FACE VIEW OF PIN INSERT SHOWN



INSERT ARRANGEMENT:	10SL-4	10SL-3	12-10	14S-2	14S-5	14S-6
CONTACT SIZE & QUANTITY:	2 - #16	3 - #16	10 - #20	4 - #16	5 - #16	6 - #16
MS SERVICE RATING:	A	A	INST	INST	INST	INST



INSERT ARRANGEMENT:	18-1	20-29	24-11	28-21
CONTACT SIZE & QUANTITY:	10 - #16	17 - #16	6 - #12, 3 - #8	37 - #16
MS SERVICE RATING:	4A 6 INST	A	A	A

NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. GLENAIR 257-005- CONNECTOR FEATURES :
 - A. SHELL: PASSIVATED STAINLESS STEEL
 - B. INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE HERMETIC INSULATOR: FULL GLASS
 - C. CONTACTS: GOLD PLATED COPPER ALLOY HERMETIC CONTACTS: ALLOY 52/GOLD PLATE
 - D. CONTACT CURRENT RATING: #20-5 AMPS, #16-10 AMPS, #12-17 AMPS, #8-35 AMPS.
 - E. RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC SERVICE RATING A - 700 V
 - F. DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS A - 2000
 - G. INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25AC
 - H. TEMPERATURE RANGE: -55AC TO +125AC
3. PERFORMANCE DATA (HERMETIC ONLY):
 - A. CONTACT CURRENT RATING: 20 AMPS MAX
 - B. RATED OPERATING VOLTAGE: 250 VDC
 - C. DIELECTRIC W/STANDING VOLTAGE (HI-POT): 1000 VRMS
 - D. INSULATION RESISTANCE: 5000 MEGOHMS MIN AT 500 VDC & +25AC
- ⚠ EXTENSION AND DIAMETER OF CONTACTS APPLY TO #16 CONTACTS ONLY, FOR OTHER SIZES, CONSULT FACTORY.
5. ELECTRICAL SAFETY LIMITS MUST BE ESTABLISHED BY THE USER
 PEAK VOLTAGES, SWITCHING SURGES, TRANSIENTS, ETC., SHOULD BE USED TO DETERMINE

HOW TO ORDER:

EXAMPLE: 257 - 012 - 2 - 14S - 5 P W M

PRODUCT SERIES _____

BASIC NO _____

2 = RECEPTACLE ASSEMBLY _____

SHELL SIZE, TABLE I _____

INSERT ARRANGEMENT DASH NO _____

CONTACT STYLE: _____

P = PIN

S = SOCKET

ALTERNATE INSERT POSITION, OMIT FOR NORMAL _____

M = MOLDING ADAPTER _____

P = POTTING ADAPTER (OMIT FOR NONE)

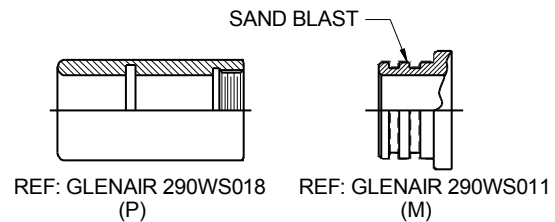
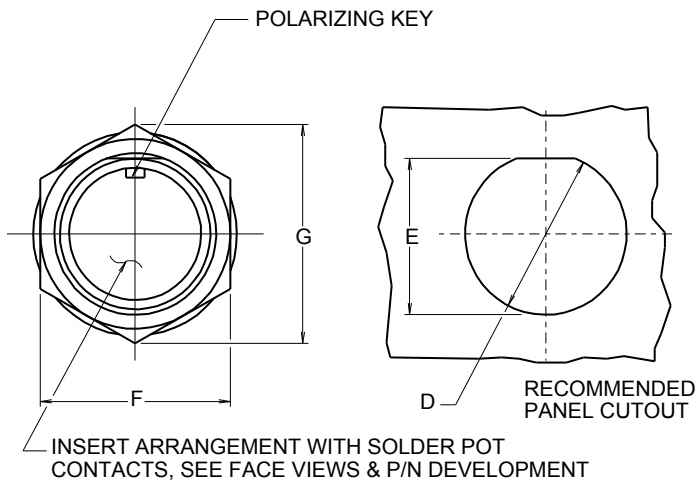
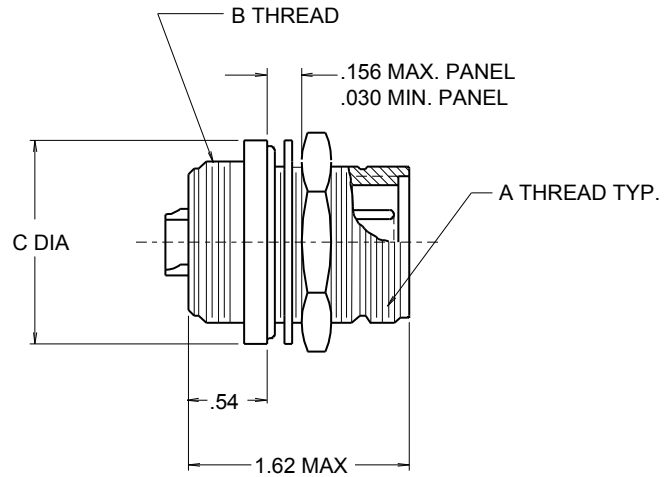


TABLE I: CONNECTOR DIMENSIONS

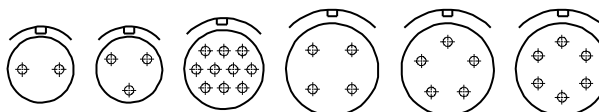
SHELL SIZE	A THREAD CLASS 2A	B THREAD CLASS 2A	C MAX	D +.010 - .000 (+.03 - 0)	E +.010 - .000 (+.03 - 0)	F MAX	G MAX
10SL	5/8 -24 UNEF	5/8 -24 UNEF	1.03 (26.2)	.635 (16.1)	.585 (14.9)	.875 (22.2)	.94 (23.9)
12	3/4 -20 UNEF	3/4 -20 UNEF	1.16 (29.5)	.760 (19.3)	.710 (18.0)	1.000 (25.4)	1.09 (27.7)
14S	7/8 -20 UNEF	7/8 -20 UNEF	1.28 (32.5)	.885 (22.5)	.835 (21.2)	1.125 (28.6)	1.25 (31.8)
16S	1 -20 UNEF	1 -20 UNEF	1.42 (36.1)	1.010 (25.7)	.960 (24.4)	1.250 (31.8)	1.39 (35.3)
18	1 1/8 -18 UNEF	1 1/8 -16 UN	1.66 (42.2)	1.135 (28.8)	1.085 (27.6)	1.500 (38.1)	1.69 (42.9)
20	1 1/4 -18 UNEF	1 1/4 -16 UN	1.78 (45.2)	1.260 (32.0)	1.210 (30.7)	1.625 (41.3)	1.82 (46.2)
24	1 1/2 -18 UNEF	1 1/2 -16 UN	2.03 (51.6)	1.510 (38.4)	1.460 (37.1)	1.875 (47.6)	2.12 (53.8)
28	1 3/4 -18 UNEF	1 3/4 -18 UN	2.28 (57.9)	1.760 (44.7)	1.710 (43.4)	2.125 (54.0)	2.42 (61.5)

257-012
Environment Resistant Receptacle
MIL-DTL-5015 Type
Mates to Mil-C-5015 (MS3106) Type Receptacle Connector

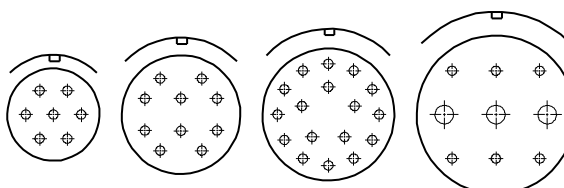


MIL-DTL-5015

INSERT ARRANGEMENTS
FACE VIEW OF PIN INSERT SHOWN



INSERT ARRANGEMENT:	10SL-4	10SL-3	12-10	14S-2	14S-5	14S-6
CONTACT SIZE & QUANTITY:	2 - #16	3 - #16	10 - #20	4 - #16	5 - #16	6 - #16
MS SERVICE RATING:	A	A	INST	INST	INST	INST
ALTERNATE POSITION:	N/A	N/A	N/A	X & Y	X	N/A



INSERT ARRANGEMENT:	16S-1	18-1	20-29	24-11
CONTACT SIZE & QUANTITY:	7 - #16	10 - #16	17 - #16	6 - #12, 3 - #8
MS SERVICE RATING:	A	4A 6 INST	A	A
ALTERNATE POSITION:	W & Z	W,X,Y & Z	W & Z	W,X,Y & Z

NOTES:

- ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
- GLENAIR 257-012 CONNECTOR FEATURES:
 - SHELL, ADAPTER: AL ALLOY/HARD COAT
 - INSULATOR, O-RING, GROMMET: NITRILE/NEOPRENE
 - CONTACTS: GOLD PLATED COPPER ALLOY WITH SOLDER POTS
 - CONTACT CURRENT RATING: #20-5 AMPS, #16-10 AMPS, #12-17 AMPS, #8-35 AMPS
 - RATED OPERATING VOLTAGE: SERVICE RATING INST - 250 VDC
SERVICE RATING A - 700 VDC
 - DIELECTRIC W/STANDING VOLTAGE (HI-POT): SERVICE RATING INST - 1000 VRMS
- A VRMS
 - INSULATION RESISTANCE: 5000 MEGOHMS MINIMUM AT 500 VDC AND +25°C
 - TEMPERATURE RANGE: -55°C TO +125°C
- ELECTRICAL SAFETY LIMITS MUST BE ESTABLISHED BY THE USER.
PEAK VOLTAGES, SWITCHING SURGES, TRANSIENTS, ETC., SHOULD BE
- MATES TO MIL-C-5015 (MS3106) TYPE PLUG CONNECTORS.
USED TO DETERMINE THE SAFETY OF THE APPLICATION.

947-041 Bulkhead Feed-Thru, Panel Mount MIL-DTL-5015 Type

How To Order 947-041

Sample Part Number	947-041	M	18-11	P	X
Series / Basic Part No.	MIL-DTL-5015 type bulkhead feed-thru, panel mount				
Finish	See Table II				
Shell Size - Insert Arrangement*	Per Table I and MIL-C-5015				
Contact Style	P = Pins S = Sockets PS = Pin on panel side / socket opposite SP = Socket on panel side / pin opposite				
Alternate Polarization	W, X, Y, Z (omit for normal). Insert rotates in relation to master key				

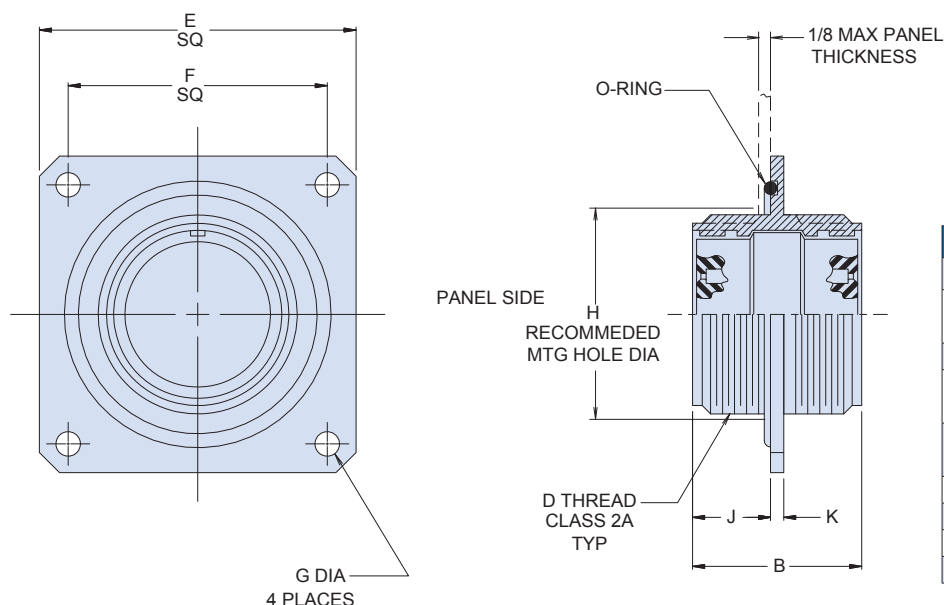


Table II - Material / Finish

Sym	Material	Finish
B	Al Alloy	Cadmium Plate / Olive Drab
M		Electroless Nickel
N		Cad Plate / Olive Drab over Nickel Plate
NF		Cad / O.D. over Electroless Nickel (500 hr. Salt Spray)
ZU	SST	Black Cad / Nickel Strike
ZW		Olive Drab Cad / Nickel
Z1		Passivated
ZL		Electrodeposited Nickel

Table I

Shell Size	B Max	D Thread Class 2A	E Dim ± .031	F Dim ± .005	G Dia. + .010/- .000	H Dia. + .010/- .000	J ± .015	K ± .015
8S	1.750 (44.5)	1/2-28 UNEF	0.875 (22.2)	0.594 (15.1)	0.120 (3.0)	0.510 (13.0)	0.578 (14.7)	0.083 (2.1)
10SL	1.750 (44.5)	3/8-24 UNEF	1.000 (25.4)	0.719 (18.3)	0.120 (3.0)	0.635 (16.1)	0.578 (14.7)	0.083 (2.1)
12S	1.750 (44.5)	3/4-20 UNEF	1.094 (27.8)	0.812 (20.6)	0.120 (3.0)	0.760 (19.3)	0.578 (14.7)	0.083 (2.1)
12	2.125 (54.0)	3/4-20 UNEF	1.094 (27.8)	0.812 (20.6)	0.120 (3.0)	0.760 (19.3)	0.800 (20.3)	0.083 (2.1)
14S	1.750 (44.5)	7/8-20 UNEF	1.188 (30.2)	0.906 (23.0)	0.120 (3.0)	0.885 (22.5)	0.578 (14.7)	0.083 (2.1)
14	2.125 (54.0)	7/8-20 UNEF	1.188 (30.2)	0.906 (23.0)	0.120 (3.0)	0.885 (22.5)	0.800 (20.3)	0.083 (2.1)
16S	1.750 (44.5)	1-20 UNEF	1.281 (32.5)	0.969 (24.6)	0.120 (3.0)	1.010 (25.7)	0.578 (14.7)	0.083 (2.1)
16	2.125 (54.0)	1-20 UNEF	1.281 (32.5)	0.969 (24.6)	0.120 (3.0)	1.010 (25.7)	0.800 (20.3)	0.083 (2.1)
18	2.125 (54.0)	1 1/8-18 UNEF	1.375 (34.9)	1.062 (27.0)	0.120 (3.0)	1.135 (28.8)	0.800 (20.3)	0.100 (2.5)
20	2.125 (54.0)	1 1/4-18 UNEF	1.500 (38.1)	1.156 (29.4)	0.120 (3.0)	1.260 (32.0)	0.800 (20.3)	0.100 (2.5)
22	2.125 (54.0)	1 3/8-18 UNEF	1.625 (41.3)	1.250 (31.8)	0.120 (3.0)	1.385 (35.2)	0.800 (20.3)	0.100 (2.5)
24	2.125 (54.0)	1 1/2-18 UNEF	1.750 (44.5)	1.375 (34.9)	0.147 (3.7)	1.510 (38.4)	0.800 (20.3)	0.100 (2.5)
28	2.125 (54.0)	1 3/4-18 UNS	2.000 (50.8)	1.562 (39.7)	0.147 (3.7)	1.760 (44.7)	0.820 (20.8)	0.100 (2.5)
32	2.125 (54.0)	2-18 UNS	2.250 (57.2)	1.750 (44.5)	0.173 (4.4)	2.010 (51.1)	0.800 (20.3)	0.100 (2.5)
36	2.125 (54.0)	2 1/4-16 UNS	2.500 (63.5)	1.938 (49.2)	0.173 (4.4)	2.260 (57.4)	0.880 (22.4)	0.125 (3.2)
40	2.125 (54.0)	2 1/2-16 UN	2.750 (69.9)	2.188 (55.6)	0.173 (4.4)	2.510 (63.8)	0.880 (22.4)	0.125 (3.2)
44	2.125 (54.0)	2 3/4-16 UN	3.000 (76.2)	2.438 (61.9)	0.173 (4.4)	2.760 (70.1)	0.880 (22.4)	0.125 (3.2)
48	2.125 (54.0)	3-16 UN	3.250 (82.6)	2.688 (68.3)	0.173 (4.4)	3.010 (76.5)	0.880 (22.4)	0.125 (3.2)

NOTES

Assembly identified with manufacturer's name and P/N, space permitting

MATERIAL/FINISH

Shell - See Table II

Contacts -

Copper alloy / gold plate

Insulators, Spacer -

High-grade rigid dielectric

O-rings & seals - Silicone

947-056 Bulkhead Feed-Thru, Hermetic Pin/Pin MIL-DTL-5015 "D" Series Type Connectors



MIL-DTL-5015

PART NUMBER DEVELOPMENT

EXAMPLE: 947 - 056 - 16 12 X

PRODUCT SERIES ———

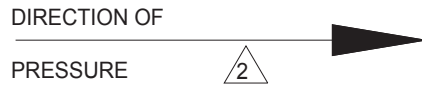
BASIC NO ———

SHELL SIZE, TABLE I ———

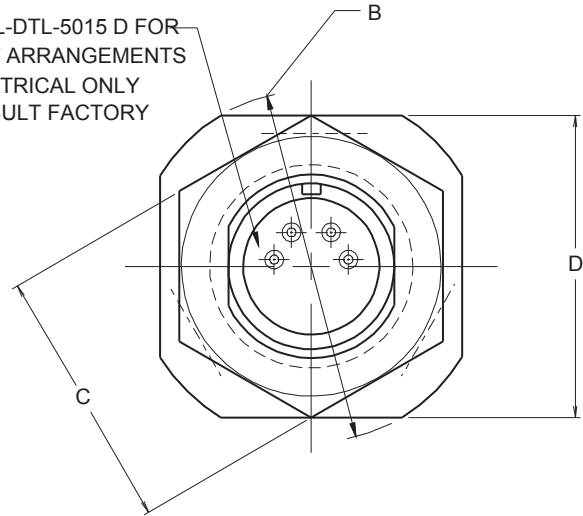
INSERT ARRANGEMENT ———

ALTERNATE POLARIZATION ———

OMIT FOR NORMAL



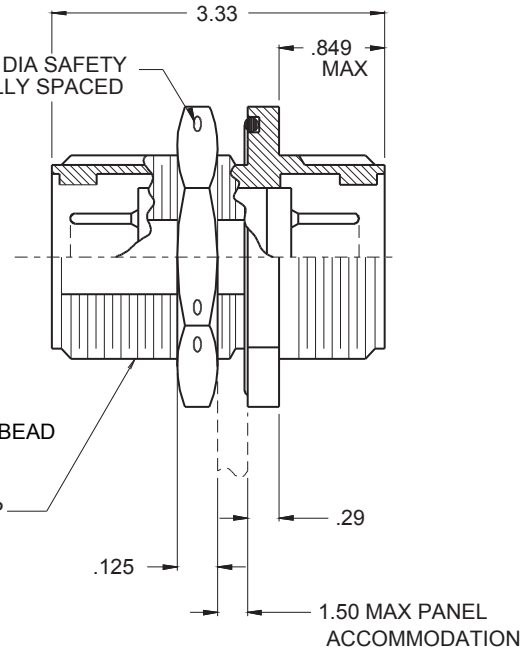
SEE MIL-DTL-5015 D FOR
INSERT ARRANGEMENTS
SYMETRICAL ONLY
CONSULT FACTORY



NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. HERMETICITY - LESS THAN 1×10^{-6} CC/SEC AT ONE ATMOSPHERE. NOT FOR USE IN LIQUID ATMOSPHERE.
3. OUTGAS FOR SPACE APPLICATION.
4. MATERIAL/FINISH:
JAM NUT, LOCKRING, SHELL ASSEMBLY - SST./PASSIVATE
CONTACTS - ALLOY 52/GOLD PLATE
INSULATORS - HIGH-GRADE RIGID DIELECTRIC, FULL GLASS OR GLASS BEAD
O-RINGS - SILICONE/N.A.

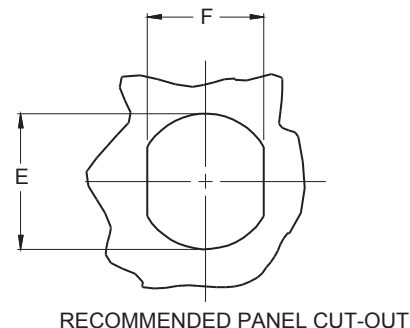
HOLE FOR .031 DIA SAFETY
WIRE, 3 EQUALLY SPACED



A THREAD - TYP

TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE	A THREAD CLASS 2A	B DIA MAX	C HEX	D FLATS	E DIA $\pm .005$ (± 0.1)	F $+ .015 - .000$ ($+0.4 - 0$)
08	1/2-28 UNEF	1.000 (25.4)	.688 (17.5)	.875 (22.2)	.510 (13.0)	.460 (11.7)
10	5/8-24 UNEF	1.125 (28.6)	.812 (20.6)	1.000 (25.4)	.635 (16.1)	.578 (14.7)
12	3/4-20 UNEF	1.250 (31.8)	.938 (23.8)	1.125 (28.6)	.760 (19.3)	.692 (17.6)
14	7/8-20 UNEF	1.375 (34.9)	1.062 (27.0)	1.250 (31.8)	.885 (22.5)	.817 (20.8)
16	1-20 UNEF	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	1.010 (25.7)	.942 (23.9)
18	1 1/8-18 UNEF	1.750 (44.5)	1.375 (34.9)	1.625 (41.3)	1.135 (28.8)	1.060 (26.9)
20	1 1/4-18 UNEF	1.875 (47.6)	1.500 (38.1)	1.750 (44.5)	1.260 (32.0)	1.185 (30.1)
22	1 3/8-18 UNEF	2.000 (50.8)	1.625 (41.3)	1.875 (47.6)	1.385 (35.2)	1.310 (33.3)
24	1 1/2-18 UNEF	2.188 (55.6)	1.750 (44.5)	2.000 (50.8)	1.510 (38.4)	1.435 (36.4)
28	1 3/4-18 UNEF	2.438 (61.9)	2.000 (50.8)	2.250 (57.2)	1.760 (44.7)	1.687 (42.8)
32	2-18 UNEF	2.688 (68.3)	2.250 (57.2)	2.500 (63.5)	2.010 (51.1)	1.937 (49.2)
36	2 1/4-16 UN	2.938 (74.6)	2.500 (63.5)	2.750 (69.9)	2.260 (57.4)	2.177 (55.3)



RECOMMENDED PANEL CUT-OUT

947-042

Bulkhead Feed-Thru, Hermetic, Jam Nut Mount Pin-Socket Contacts

MIL-DTL-5015 "D" Series Type Connectors

PART NUMBER DEVELOPMENT

EXAMPLE: 947 - 042 - 36 - 12 P X

PRODUCT SERIES

BASIC NO

SHELL SIZE, TABLE I

INSERT ARRANGEMENT

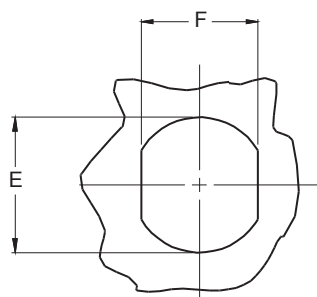
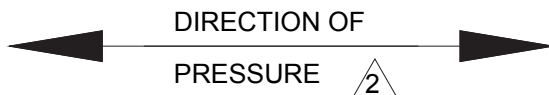
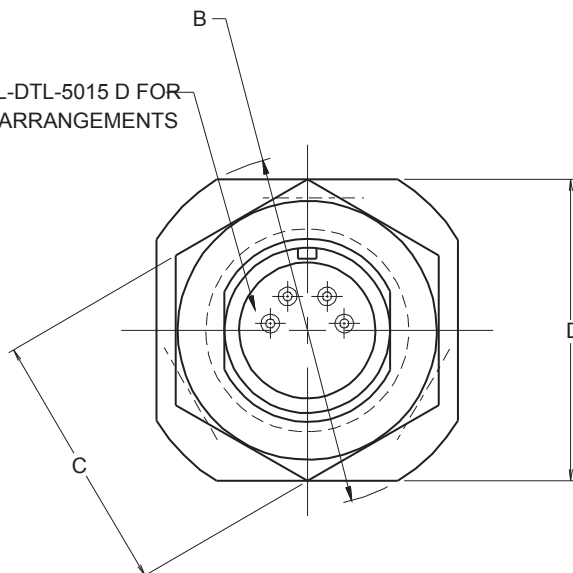
P = PIN ON JAM NUT SIDE,
SOCKET OPPOSITE

S = SOCKET ON JAM NUT SIDE,
PIN OPPOSITE

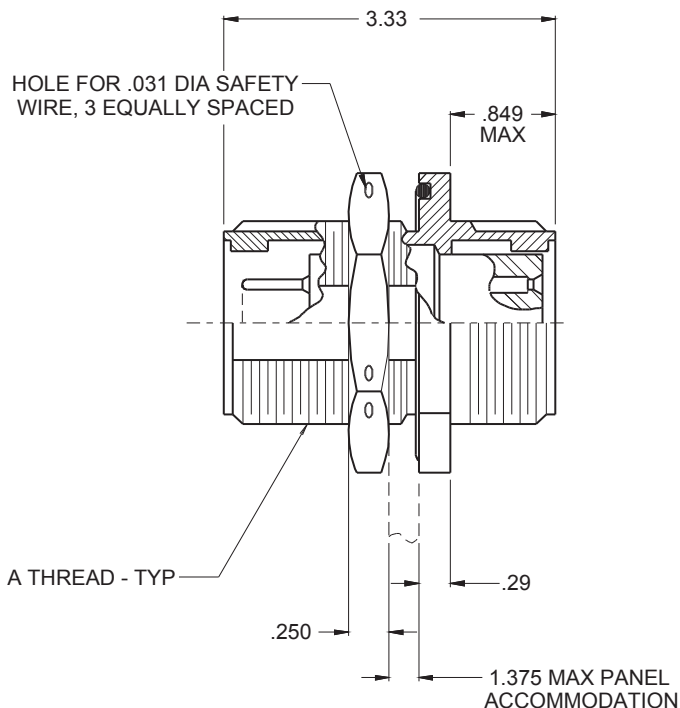
5 PP = PIN ON BOTH SIDES

ALTERNATE POLARIZATION
OMIT FOR NORMAL

SEE MIL-DTL-5015 D FOR
INSERT ARRANGEMENTS



RECOMMENDED PANEL CUT-OUT



947-042
Bulkhead Feed-Thru, Hermetic, Jam Nut Mount
Pin-Socket Contacts
MIL-DTL-5015 "D" Series Type Connectors



MIL-DTL-5015

TABLE I: CONNECTOR DIMENSIONS						
SHELL SIZE	A THREAD CLASS 2A	B DIA MAX	C HEX	D FLATS	E DIA ±.005 (0.1)	F +.015 - .000 (+0.4 - 0)
08	1/2-28 UNEF	1.000 (25.4)	.688 (17.5)	.875 (22.2)	.510 (13.0)	.460 (11.7)
10	5/8-24 UNEF	1.125 (28.6)	.812 (20.6)	1.000 (25.4)	.635 (16.1)	.578 (14.7)
12	3/4-20 UNEF	1.250 (31.8)	.938 (23.8)	1.125 (28.6)	.760 (19.3)	.692 (17.6)
14	7/8-20 UNEF	1.375 (34.9)	1.062 (27.0)	1.250 (31.8)	.885 (22.5)	.817 (20.8)
16	1 -20 UNEF	1.500 (38.1)	1.250 (31.8)	1.375 (34.9)	1.010 (25.7)	.942 (23.9)
18	1 1/8-18 UNEF	1.750 (44.5)	1.375 (34.9)	1.625 (41.3)	1.135 (28.8)	1.060 (26.9)
20	1 1/4-18 UNEF	1.875 (47.6)	1.500 (38.1)	1.750 (44.5)	1.260 (32.0)	1.185 (30.1)
22	1 3/8-18 UNEF	2.000 (50.8)	1.625 (41.3)	1.875 (47.6)	1.385 (35.2)	1.310 (33.3)
24	1 1/2-18 UNEF	2.188 (55.6)	1.750 (44.5)	2.000 (50.8)	1.510 (38.4)	1.435 (36.4)
28	1 3/4-18 UNEF	2.438 (61.9)	2.000 (50.8)	2.250 (57.2)	1.760 (44.7)	1.687 (42.8)
32	2 -18 UNEF	2.688 (68.3)	2.250 (57.2)	2.500 (63.5)	2.010 (51.1)	1.937 (49.2)
36	2 1/4-16 UN	2.938 (74.6)	2.500 (63.5)	2.750 (69.9)	2.260 (57.4)	2.177 (55.3)

NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.

2. HERMETICITY - LESS THAN 1×10^{-6} CC/SEC AT ONE ATMOSPHERE. NOT FOR USE IN LIQUID ATMOSPHERE. CONNECTOR RATED TO 200° C AND 1000 PSI. MAX

3. OUTGAS FOR SPACE APPLICATION.

4. MATERIAL/FINISH:
 JAM NUT, HOODS, LOCKRING, SHELL ASSEMBLY - SST./PASSIVATE
 CONTACTS - ALLOY 52/GOLD PLATE
 INSULATORS - HIGH-GRADE RIGID DIELECTRIC, FULL GLASS OR GLASS BEAD
 O-RINGS - SILICONE/N.A.

5. FOR PIN TO PIN, SYMMETRICAL LAYOUTS ONLY. POWER TO A GIVEN CONTACT ON ONE END WILL RESULT IN POWER TO CONTACT DIRECTLY OPPOSITE, REGARDLESS OF IDENTIFICATION LETTER.

947-045 Bulkhead Feed-Thru, Jam Nut Mount MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 947-045 M 18 - 11 P X

BASIC NO _____

FINISH SYM, TABLE II _____

SHELL SIZE, TABLE I _____

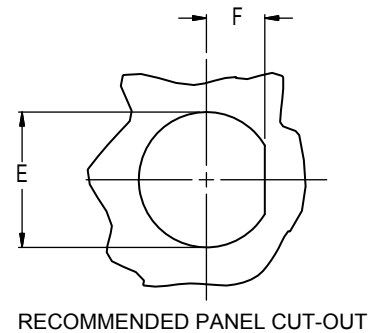
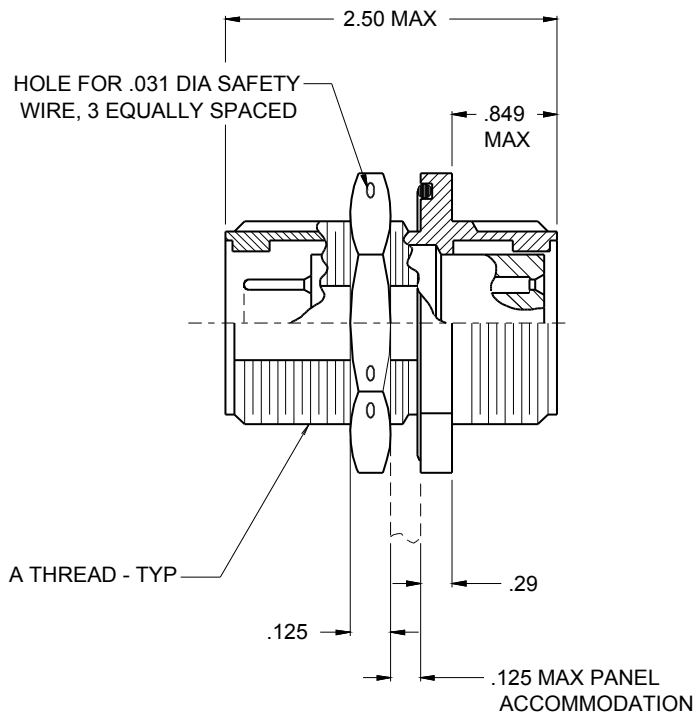
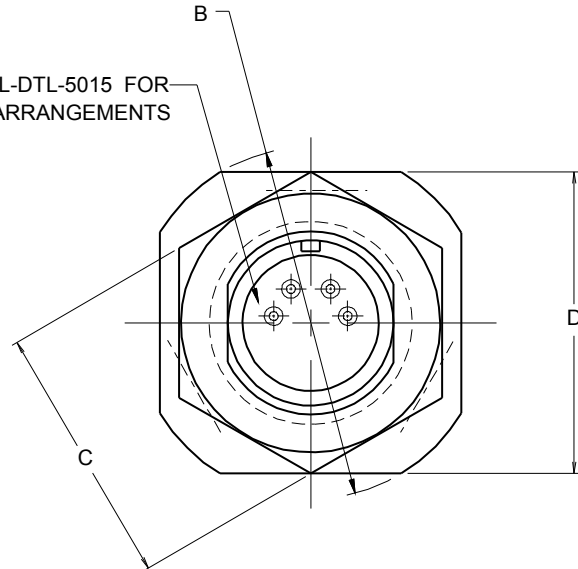
INSERT ARRANGEMENT
PER MIL-C-5015 _____

P = PIN/PIN
S = SOCKET/Socket
OMIT INSERT DASH NO FOR PIN/Socket

ALTERNATE POSITION _____

W,X,Y,Z (OMIT FOR NORMAL)

SEE MIL-DTL-5015 FOR
INSERT ARRANGEMENTS



NOTES:

1. ASSEMBLY IDENTIFIED WITH MANUFACTURER'S NAME AND P/N, SPACE PERMITTING.
2. MATERIAL/FINISH:
JAM NUT, HOODS, LOCKRING, SHELL ASSEMBLY - AL ALLOY/SEE TABLE II
CONTACTS - ALLOY 52/GOLD PLATE
INSULATORS - HIGH-GRADE RIGID DIELECTRIC
O-RINGS & SEALS - SILICONE/N.A.

947-045
Bulkhead Feed-Thru, Jam Nut Mount
MIL-DTL-5015 Type



MIL-DTL-5015

TABLE II: MATERIALS AND FINISH	
SYM	FINISH DESCRIPTION
B	CADMIUM PLATE/OLIVE DRAB
M	ELECTROLESS NICKEL
N	CADMIUM PLATE/OLIVE DRAB OVER NICKEL PLATE
NF	CAD/O. D. OVER ELECTROLESS NICKEL (500 HOUR SALT SPRAY)

TABLE I: CONNECTOR 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	1 1/8-18 UNEF	1.750 (44.5)	1.375 (34.9)	1.625 (41.3)	1.135 (28.8)	.531 (13.5)
20	1 1/4-18 UNEF	1.875 (47.6)	1.500 (38.1)	1.750 (44.5)	1.260 (32.0)	.594 (15.1)
22	1 3/8-18 UNEF	2.000 (50.8)	1.625 (41.3)	1.875 (47.6)	1.385 (35.2)	.656 (16.7)
24	1 1/2-18 UNEF	2.188 (55.6)	1.750 (44.5)	2.000 (50.8)	1.510 (38.4)	.719 (18.3)
28	1 3/4-18 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)

947-106 Quick Disconnect, Swivel Lanyard MIL-DTL-5015 Type

HOW TO ORDER:

EXAMPLE: 947 - 106 - XX XX

PRODUCT SERIES ———

BASIC NO ———

SHELL SIZE TABLE I ———

CONTACT ARRANGEMENT (MIL-STD-1651) ———

NOTES:

1. ASSEMBLY TO BE IDENTIFIED WITH "GLENAIR", GLENAIR PART NUMBER, AND DATE CODE.
2. PLUG IS COUPLED TO THE RECEPTACLE BY PULLING COUPLING RING REARWARD AND THEN PUSH THE RECEPTACLE FORWARD. PLUG IS UNCOUPLED BY A STRAIGHT AXIAL PULL OF LANYARD
3. CONNECTOR 947-106-XXXX MATES TO AN MS3102A-XX-XX CONNECTOR WITH QUICK DISCONNECT ADAPTER ATTACHED - P/N 687-329-XX (TO BE ORDERED SEPARATELY).
4. FOR SHELL SIZE 32, 36, 40, 44, AND 48 CONSULT FACTORY
5. MATERIAL/FINISH:
CONNECTOR BODY-PER MS3106A PLUG
ADAPTER, LANYARD SLEEVE-AL ALLOY/CADIUM OLIVE DRAB
LANYARD-CRES/PASSIVATED NYLON JACKET

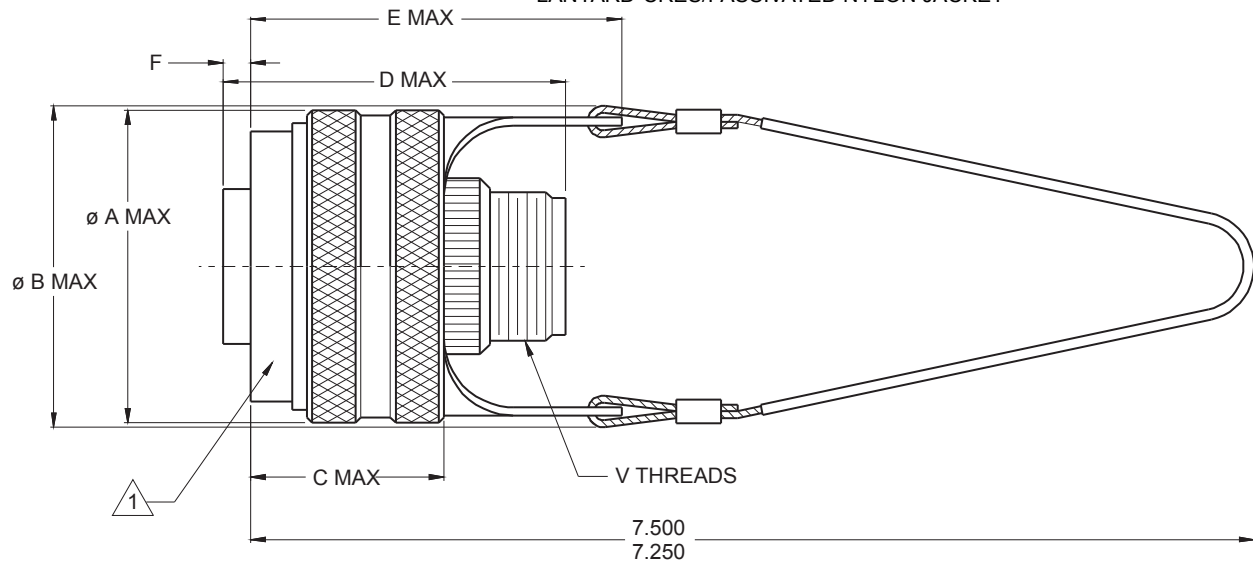


TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE	V THREAD CLASS 2A	ø A MAX	ø B MAX	C MAX	D MAX	E MAX	F DIM
8S	.500-28 UNEF-2A	1.040 (26.4)	1.320 (33.5)	.740 (18.8)	1.469 (37.3)	1.700 (43.2)	.089-.161 (2.3-4.1)
10S	.500-28 UNEF-2A	1.165 (29.6)	1.445 (36.7)		1.531 (38.9)		
10SL	.625-24 NEF-2A				1.290 (32.8)		1.570 (39.9)
12	.625-20 NEF-2A	1.688 (42.9)	.089-.161 (2.3-4.1)				
12S	.625-24 NEF-2A	2.062 (52.4)	.027-.099 (0.7-2.5)				
14	.750-20 UNEF-2A	1.415 (35.9)	1.695 (43.1)		1.688 (42.9)		.089-.161 (2.3-4.1)
14S	.750-20 UNEF-2A				2.062 (52.4)		.027-.099 (0.7-2.5)
16	.6875-20 UNEF-2A	1.540 (39.1)	1.820 (46.2)		1.688 (42.9)		.089-.161 (2.3-4.1)
16S	.6875-20 UNEF-2A				2.062 (52.4)		.027-.099 (0.7-2.5)
18	1.000-20 UNEF-2A	1.665 (42.3)	1.945 (49.4)	.880 (22.4)	2.062 (52.4)	1.850 (47.0)	.027-.099 (0.7-2.5)
20	1.1875-18 UNEF-2A	1.780 (45.2)	2.060 (52.3)		2.188 (55.6)		
22	1.1875-18 UNEF-2A	1.910 (48.5)	2.190 (55.6)				
24	1.4375-18 UNEF-2A	2.040 (51.8)	2.274 (57.8)	.950 (24.1)	2.312 (58.7)	1.920 (48.8)	
28	1.4375-18 UNEF-2A	2.240 (56.9)	2.520 (64.0)				