Amphenol

Hermetic Series Connectors
Hermetic 01 Rev 09-22

Amphenol

Hermetic technology is defined simply as the technology that uses gas-tight and moisture-tight materials to seal or store commodities that are prone to deterioration when exposed to air, moisture, or foreign objects.

In interconnect applications, hermetic refers to packaging technology designed to prevent gases from passing through pressure barriers via the connectors & joints.

Hermetically sealed connectors increase the ruggedness of electronic packages and also enhances the total life of package, by absorbing the most abrupt changes in pressure & temperature.

Glass to metal sealed (GTMS) hermetic technology, is widely used technology in interconnect Industry. Where glass & metals are sealed together using the advantage of material expansion or contraction over the temperature, also known as co-efficient of thermal expansion.

Amphenol Interconnect India Pvt. Ltd. is manufacturing compression & matched Seal GTMS.

Hermetic connectors **application** is diversified from

- Space to under water, subsea to deep space.
- Critical avionics systems to launch vehicles.
- Cryogenic -250°C to High temperature 500°C* and above
- Ultra-high vacuum to very high pressure1500bar.
- Launch vehicles, torpedoes, missiles & UAVs etc.
- Battery systems for weapon to implant battery leads.

Amphenol In-house Hermetic Connectors

Amphenol India's Hermetic facility at Pune is delivering most extensive Hermetic products to global interconnect maket, with quickest lead time, including customised products. Completing 100% component manufacturing, fusing, plating, tooling & testing activities under one roof.

Amphenol Interconnect India Pvt. Ltd. is producing all types of hermetic version of MIL & commercial grade circular connectors.

- Qualified supplier of MIL-DTL-D38999 Series III
- Qualified supplier of MIL-DTL-83723 Series III Bayonet & threaded version
- MIL-DTIL- 26482-Series II (IMB Series)- proprietary equivalent
- MIL-DTIL- 26482-Series I - (PT Series)- proprietary equivalent
- Proprietary equivalent of MIL-DTL-D38999 Series I
- Proprietary equivalent of MIL-DTL-D38999 Series I
- MIL-DTL-26500-proprietary equivalent
- Amphenol also manufactures rectangular Hermetic connectors, can support D-Sub connectors equivalent to MIL-DTL-24308/9

*Contact factory for more details.

Hermetic connector **process** starts with mounting sealing parts into Amphenol designed fusing fixtures that align them during the firing process. A conveyor belt transports the fusing assembly through the various furnace chambers with predefined recipe of time, temperature & gas mixture to seal connector. Atmosphere inside the furnace is controlled precisely required to oxidation & reduction of the metal components. A gastight hermetic seal is formed around all contacts and the glass seal and connector shell when the vitreous glass is melted in the furnace and then cooled under controlled conditions.

After firing, 100% helium testing and plating are completed and the remaining connector components such interfacial seals, O-rings, jam-nuts and so on are assembled to the connector assembly.

Quality Control is a critical step in Hermeticconnector manufacturing. Connectors are 100% leak tested, are also visually inspected under magnification to ensure all components are seated in their correct positions and no surface imperfections. The connectors are also subjected to electrical testing as required by respective military and industry standards and by customer requirements.

Connector also subjected product specific test like high pressure ranging from 1 bar to 1500 bar, special helium leak rate at increased pressure differences.




Helium leak testing hermeticity is measured in terms of helium leak through connector.

General requirement of hermeticity for MIL connectors is helium leak rate test less than $1x10^{-7}$ CC/sec at 1 atmospheric pressure difference. However we at Amphenol can supply $1x10^{-10}$ CC/sec at 1 atmospheric pressure difference or higher-pressure difference.

All hermetic connectors are 100% tested prior to shipment. A helium leak test is performed to certify the hermetic seal. This test is conducted by inducing a 1 ATM vacuum on one side of the connector. Helium gas is released on the other side, and a mass spectrometer "counts" the number of helium molecules that penetrate the connector seal. Helium leak testing takes advantage of the small size of a helium molecule compared to air or water vapor. Helium is inert, rare in our atmosphere, and is easy to detect with a mass spectrometer

Helium Leak Rate Std cc/sec Approximate	Approximate Bubble Equivalent
1×10^{-1}	1 cc/10 sec
1×10^{-2}	1 cc/100 sec
1×10^{-3}	1 cc/hour
1×10^{-4}	1 cc/3 hours
1×10^{-5}	1 cc/24 hours
1×10^{-6}	1 cc/2 weeks
1×10^{-7}	3 cc/year
1×10^{-8}	1 cc/3 year
1×10^{-9}	1 cc/30 years
1×10^{-11}	1 cc/3000 years

MIL-DTL- D 38999 SERIES III

Description:

Amphenol Tri-Start MIL-DTL-38999 Series III Hermetic Connectors offer the highest performance capabilities for both general duty and severe environment applications meeting or exceeding MIL-DTL-38999 Series III requirements.
Amphenol commits to providing highly reliable and versatile MIL-DTL-38999 Series III connectors. Originally designed for the harshest of environments and most demanding of applications, Amphenol MIL-DTL-38999 Series III, Tri-Start connectors continue to evolve in pace with the needs of an ever changing market.

Features & Benefits:

- Hermetic- air leakage tested to 1x10-7 cc/sec helium
- Contact Protection: Recessed pins in this 100% scoop-proof connector minimize potential contact damage
- Moisture Resistance: Improved interfacial seal design helps prevent electrolytic erosion of contacts
- Corrosion Resistance: Shells of stainless steel with nickel plating withstand a 500-hour salt spray exposure
- Vibration/Shock: Operates under severe high-temperature vibration, through 200°C
- Lockwiring Eliminated: Unique, self-locking, quick coupling connector eliminates lockwiring
- Quick Coupling: Completely mates and self-locks in a 360° turn of the coupling nut

Operating Temperature Range: -65°C to +200°C (-85°F to +392°F)

Material and Finish:

Class Y:
Shell material: Stainless Steel
Finish: Passivated

Class N:
Shell material: Stainless Steel
Finish: Nickel plated

Contacts:
Material: Ferrous alloy
Finish: Gold plated

Durability: Minimum of 500 mating cycles.

Corrosion Resistance
Class Y: 500 hours as per MIL-DTL-38999
Class N: 48 hours as per MIL-DTL-38999

Shock and Vibration
Shock: Pulse of approximate half sine wave of 300 g ± 15% magnitude with duration of 3 ±1 milliseconds applied in three axes. Vibration: as per MIL-DTL-38999.

Shell-to-Shell Conductivity
Maximum potential drop shall not exceed:
Class N: 1 millivolt
Classes Y: 50 millivolts

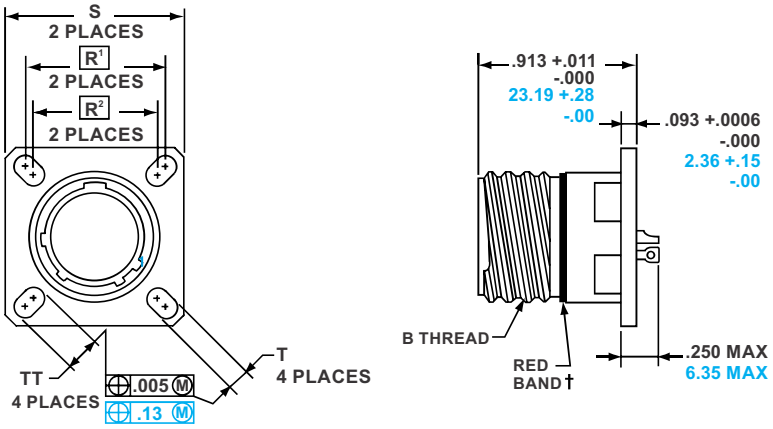
Insulation Resistance: 5000 MO at 500 VDC (25°C- 65% HR max.)

Dielectric Withstanding Voltage
At sea level:
Service M: 1300 V RMS
Service I: 1800 V RMS
Service II: 2300 V RMS
At 21 000 m altitude:
Service M: 800 V RMS
Service I: 1000 V RMS
Service II: 1000 V RMS

Maximum Current Rating per Contact
Size 22D 3 Amp
Size 20 5 Amp
Size 16 10 Amp
Size 12 17 Amp
Size 8 40 Amp

Box Mounting Receptacle

Part Number To complete, see how to order pages	Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg.	Contact Type	Alternate Position
	TVPS	02	Y	9-35	P	B
	TVPS	02	YN	X-X	X	X
	D38999/	21	X	X-X	X	X



† Red band indicates fully mated

Note: Consult Amphenol India for availability of non-glass-sealed versions with printed circuit tail contacts.

Inches

Shell Size	MS Shell Size Coded	B Thread 0.1P-0.3L-TS (Plated)	R1	R2	S ±.010	T ±.008	TT ±.008
9	A	.6250	.719	.594	.938	.128	.216
11	B	.7500	.812	.719	1.031	.128	.194
13	C	.8750	.906	.812	1.125	.128	.194
15	D	1.0000	.969	.906	1.219	.128	.173
17	E	1.1875	1.062	.969	1.312	.128	.194
19	F	1.2500	1.156	1.062	1.438	.128	.194
21	G	1.3750	1.250	1.156	1.562	.128	.194
23	H	1.5000	1.375	1.250	1.688	.154	.242
25	J	1.6250	1.500	1.375	1.812	.154	.242

Millimeters

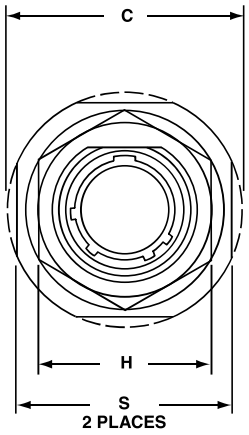
Shell Size	MS Shell Size Coded	R1	R2	S ±.025	T ± .20	TT ± .20
9	A	18.26	15.09	23.83	3.25	5.49
11	B	20.62	18.26	26.19	3.25	4.93
13	C	23.01	20.62	28.58	3.25	4.93
15	D	24.61	23.01	30.96	3.25	4.93
17	E	26.97	24.61	33.32	3.25	4.93
19	F	29.36	26.97	36.53	3.25	4.93
21	G	31.75	29.36	39.67	3.25	4.93
23	H	34.93	31.75	42.88	3.91	6.15
25	J	38.10	34.93	46.02	3.91	6.15

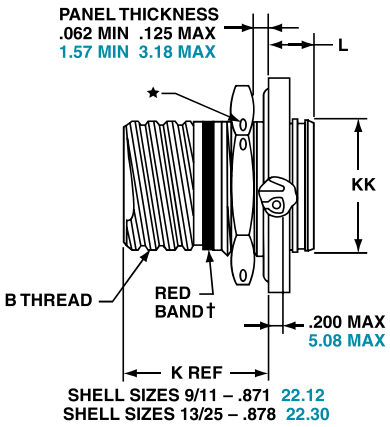
All dimensions for reference only

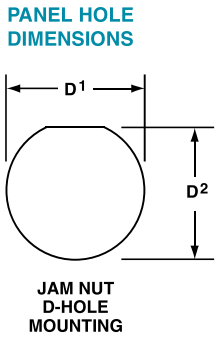
Designates true position dimensioning

Jam Nut Receptacle

Part Number To complete, see how to order pages	Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg.	Contact Type	Alternate Position
	TVS	07	Y	9-35	P	B
	TVS	07	YN	X-X	X	X
	D38999/	23	X	X-X	X	X







† Red band indicates fully mated

▯ .059 dia min.

1.5 dia min dia min. 3 lockwire holes

Formed lockwire hole design (6 holes) is optional.

Inches

Shell Size	MS Shell Size code	B Thread Class 2A 0.1P-0.3L-TS (Plated)	C Max	D¹ +.010 –.000	D² +.000 –.010	H Hex +.017 –.016	L Max	S ±.010	KK +.011 –.000
9	A	.6250	1.199	.693	.657	.875	.357	1.062	.642
11	B	.7500	1.386	.825	.770	1.000	.357	1.250	.766
13	C	.8750	1.511	1.010	.955	1.188	.357	1.375	.892
15	D	1.0000	1.636	1.135	1.085	1.312	.357	1.500	1.018
17	E	1.1875	1.761	1.260	1.210	1.438	.357	1.625	1.142
19	F	1.2500	1.949	1.385	1.335	1.562	.381	1.812	1.268
21	G	1.3750	2.073	1.510	1.460	1.688	.381	1.938	1.392
23	H	1.5000	2.199	1.635	1.585	1.812	.381	2.062	1.518
25	J	1.6250	2.323	1.760	1.710	2.000	.381	2.188	1.642

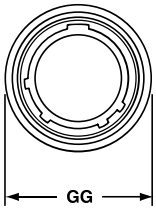
Millimeters

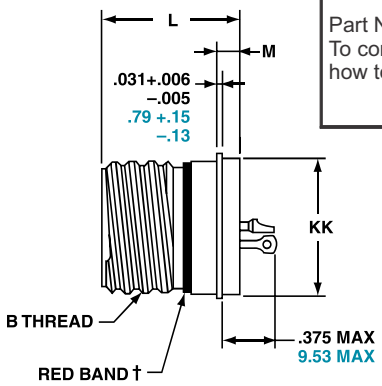
Shell Size	MS Shell Size code	C Max	D¹ +.25 –.00	D² +.00 –.25	H Hex +.43 –.41	L Max	S ±.25	KK +.28 –.00
9	A	30.45	17.60	16.70	22.23	9.07	26.97	16.31
11	B	35.20	20.96	19.59	25.40	9.07	31.75	19.46
13	C	38.38	25.65	24.26	30.18	9.07	34.93	22.66
15	D	41.55	28.83	27.56	33.32	9.07	38.10	25.86
17	E	44.73	32.01	30.73	36.53	9.07	41.28	29.01
19	F	49.50	35.18	33.91	39.67	9.68	46.02	32.21
21	G	52.65	38.35	37.08	42.80	9.68	49.23	35.36
23	H	55.85	41.53	40.26	46.02	9.68	52.37	38.56
25	J	59.00	44.70	43.43	50.80	9.68	55.58	41.71

All dimensions for reference only

Solder Mounting Receptacle

Part Number To complete, see how to order pages	Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg.	Contact Type	Alternate Position
	TVS	01	Y	9-35	P	B
	TVS	01	YN	X-X	X	X
	D38999/	25	X	X-X	X	X





† Red band indicates fully mated

Inches

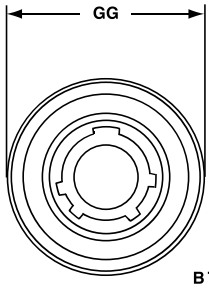
Shell Size	MS Shell Size Code	B Thread Class 2A 0.1P-0.3L-TS (Plated)	L +.011 –.005	M +.006 –.005	GG Dia. +.011 –.010	KK Dia +.011 –.005
9	A	.6250	.806	.125	.750	.672
11	B	.7500	.806	.125	.844	.781
13	C	.8750	.806	.125	.969	.906
15	D	1.0000	.806	.125	1.094	1.031
17	E	1.1875	.806	.125	1.218	1.156
19	F	1.2500	.806	.125	1.312	1.250
21	G	1.3750	.806	.125	1.438	1.375
23	H	1.5000	.838	.156	1.563	1.500
25	J	1.6250	.838	.156	1.688	1.625

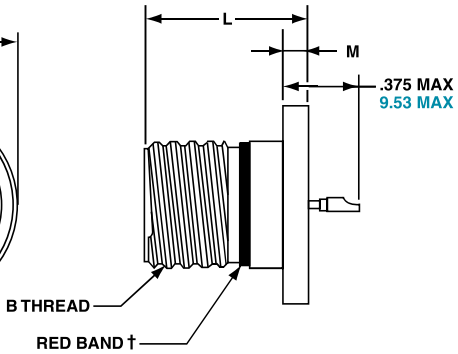
Millimeters

Shell Size	MS Shell Size Code	L +.28 –.00	M +.15 –.13	GG Dia. +.28 –.25	KK Dia +.03 –.13
9	A	20.47	3.18	19.05	17.07
11	B	20.47	3.18	21.44	19.84
13	C	20.47	3.18	24.61	23.01
15	D	20.47	3.18	27.79	26.19
17	E	20.47	3.18	30.94	29.36
19	F	20.47	3.18	33.32	31.75
21	G	20.47	3.18	36.53	34.93
23	H	21.29	3.96	39.70	38.10
25	J	21.29	3.96	42.88	41.28

TVSHIY (D38999/27) - Hermetic Stainless Steel

Weld Mounting Receptacle





Part Number. To complete, see how to order pages

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg.	Contact Type	Alternate Position
TVS	HI	Y	9-35	P	B
TVS	HI	YN	X-X	X	X
D38999/	27	X	X-X	X	X

† Red band indicates fully mated

Inches

Shell Size	MS Shell Size Code	B Thread Class 2A 0.1P-0.3L-TS (Plated)	L +.011 –.000	M +.006 –.005	GG Dia. +.011 –.010
9	A	.6250	.806	.125	.973
11	B	.7500	.806	.125	1.095
13	C	.8750	.806	.125	1.221
15	D	1.0000	.806	.125	1.347
17	E	1.1875	.806	.125	1.434
19	F	1.2500	.806	.125	1.579
21	G	1.3750	.806	.125	1.721
23	H	1.5000	.838	.156	1.886
25	J	1.6250	.838	.156	1.973

All dimensions for reference only

Millimeters

Shell Size	MS Shell Size Code	L +.28 –.00	M +.15 –.13	GG Dia. +.25 –.00
9	A	20.47	3.18	24.71
11	B	20.47	3.18	27.81
13	C	20.47	3.18	31.01
15	D	20.47	3.18	34.21
17	E	20.47	3.18	36.42
19	F	20.47	3.18	40.11
21	G	20.47	3.18	43.71
23	H	21.29	3.96	47.90
25	J	21.29	3.96	50.11

To obtain a specific connector number, write down the connector number from the typical example below.
Connectors are delivered with protective dust caps.

Ordering Information QPL - Part Number

J D38999 / 21 - Y - D - 35 P N

QPL - designator

Series Designation
(DoD no, prefix)

Shell Style
(Specification Sheet No)
21 - Boxmount
23 - Jamnut
25 - Solder Mount
27 - Weldmount

Service Class
Y - Shell with passivation
N - Shell with Nickel Plating

Shell Size
Refer Page-10, Military Shell Size.

Insert Arrangement
As per MIL - STD - 1560
Refer insert layout

Shell Keyway Position
N, A, B, C, D, E

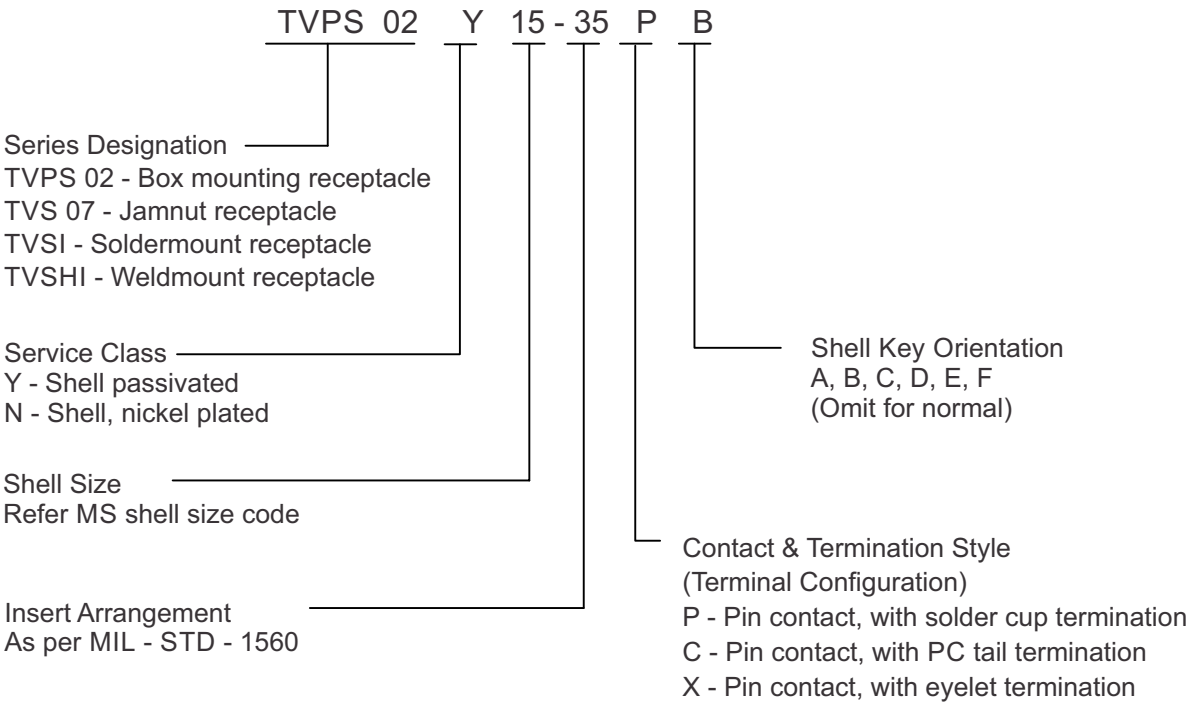
Contact & Termination Type.
P - Pin contact, with solder pocket termination
C - Pin contact, with PC tail termination
X - Pin contact, with eyelet termination

Amphenol Interconnect India Pvt. Ltd. is listed qualified supplier for 38999 series III hermetic connector for listed layouts.

Class: N,Y
Style: C, P, X
Shell: A Insert: 6, 35, 44, 98
Shell: B Insert: 2, 4, 5, 13, 35, 98, 99
Shell: C Insert: 4, 8, 22, 35, 98
Shell: D Insert: 5, 15, 18, 19, 35, 37, 97
Shell: E Insert: 6, 8, 26, 35, 55, 99
Shell: F Insert: 11, 28, 30, 32, 35, 66
Shell: G Insert: 1, 11, 16, 24, 25, 27, 35, 39, 41
Shell: H Insert: 1, 2, 21, 21, 32, 32, 34, 35, 36, 53

For more details on layouts refer pages 10 to 13.

Ordering Information Amphenol Proprietary Part Number



QPL Qualified Layouts

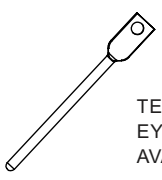
SHELL SIZE -LAYOUT	MIL ITARY SHELL SIZE	TOTAL CONTACTS	CONTACT SIZE			
			22	20	16	12
9-6	A	6	6			
9-35	A	6	6			
9-98	A	3		3		
9-44	A	4	4			
11-2	B	2			2	
11-4	B	4		4		
11-5	B	5		5		
11-13	B	13	13			
11-35	B	13	13			
11-98	B	6		6		
11-99	B	7		7		
13-4	C	4			4	
13-8	C	8		8		
13-22	C	22	22			
13-35	C	22	22			
13-98	C	10		10		
15-5	D	5			5	
15-15	D	15		14	1	
15-18	D	18		18		
15-19	D	19		19		
15-35	D	37	37			
15-37	D	37	37			
15-97	D	12		8	4	
17-6	E	6				6
17-8	E	8		8		
17-26	E	26		26		
17-35	E	55	55			
17-55	E	55	55			
17-99	E	23		21	2	
19-11	F	11			11	
19-28	F	28		26	2	
19-30	F	30		29	1	
19-32	F	32		32		
19-35	F	66	66			
19-66	F	66	66			

SHELL SIZE -LAYOUT	MIL ITARY SHELL SIZE	TOTAL CONTACTS	CONTACT SIZE			
			22	20	16	12
21-1	G	79	79			
21-11	G	11				11
21-16	G	16			16	
21-24	G	24		24		
21-25	G	25		25		
21-27	G	27		27		
21-35	G	79	79			
21-39	G	39		37	2	
21-41	G	41		41		
23-1	H	100	100			
23-2	H	85	85			
23-21	H	21			21	
23-32	H	32		32		
23-34	H	34		34		
23-35	H	100	100			
23-36	H	36		36		
23-53	H	53		53		
23-55	H	55		55		
23-97	H	16			16	
23-99	H	11			11	
25-4	J	56		48	8	
25-19	J	19				19
25-35	J	128	128			
25-61	J	61		61		
25-1	J	128	128			
25-2	J	100	100			
25-4	J	56		48	8	
25-19	J	19				19
25-24	J	24			12	12
25-29	J	29			29	
25-35	J	128	128			
25-37	J	37			37	
25-43	J	43		23	20	
25-61	J	61		61		

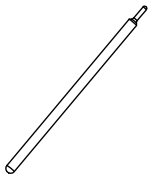
Note: Contact Factory For More Details.

Contact & Termination Style
(Terminal Configuration)

TERMINAL STYLE P
SOLDER CUP
AVAILABLE IN 22S, 20S,16S,12S



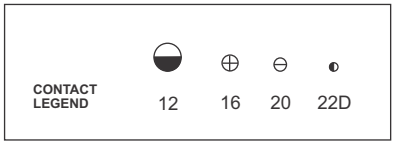
TERMINAL STYLE X
EYELET
AVAILABLE IN 22S, 20S,16S,12S



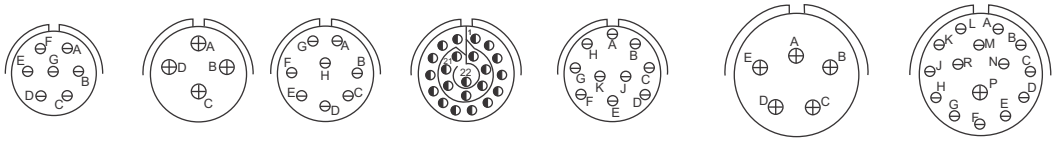
TERMINAL STYLE C
PRINTED CIRCUIT BOARD
AVAILABLE IN 22S, 20S,16S,12S

Insert Arrangements

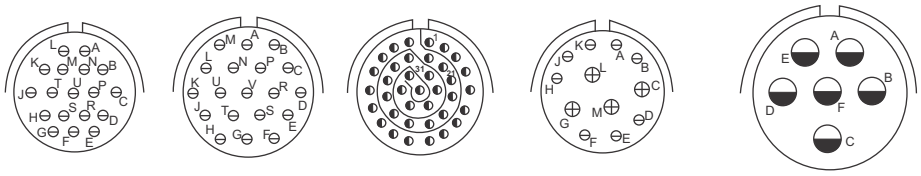
Front face of pin insert illustrated



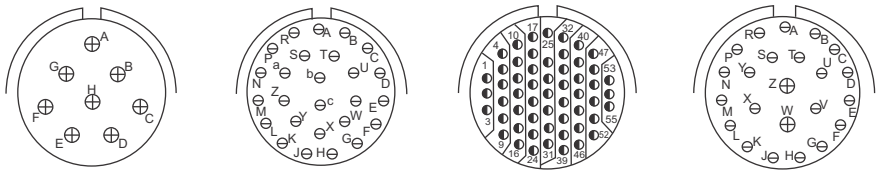
Insert Arrangement	9-35	9-94	9-98	11-2	11-5	11-35	11-98
Service Rating	M	M	I	I	I	I	I
Number of Contacts	6	2	3	2	5	13	6
Contact Size	22D	20	20	16	20	22D	20



Insert Arrangement	11-99	13-4	13-8	13-35	13-98	15-5	15-15
Service Rating	I	I	I	M	I	II	I
Number of Contacts	7	4	8	22	10	5	14 1
Contact Size	20	16	20	22D	20	16	20 16



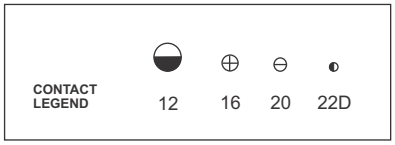
Insert Arrangement	15-18	15-19	15-35	15-97	176
Service Rating	I	I	M	I	I
Number of Contacts	18	19	37	8 4	6
Contact Size	20	20	22D	20 16	12

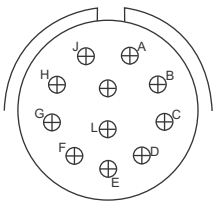


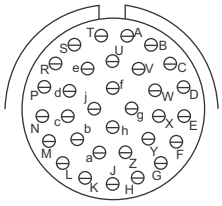
Insert Arrangement	17-8	17-26	17-35	17-99
Service Rating	II	I	M	I
Number of Contacts	8	26	55	21 2
Contact Size	16	20	22D	20 16

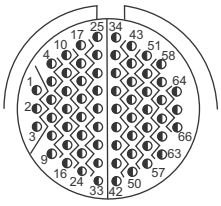
Insert Arrangements

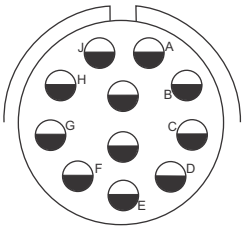
Front face of pin inserts illustrated



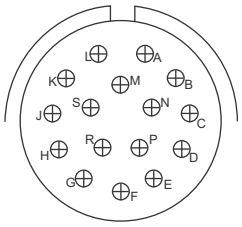


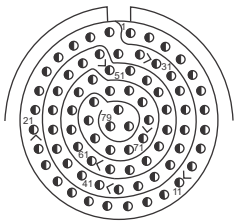


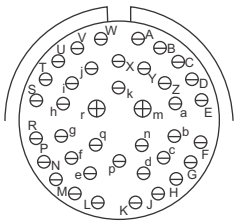


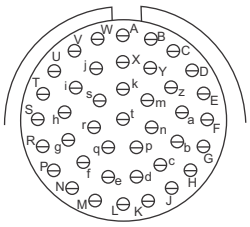


Insert Arrangement	19-11	19-32	19-35	21-11
Service Rating	II	I	M	I
Number of Contacts	11	32	66	11
Contact Size	16	20	22D	12

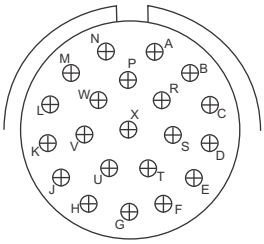


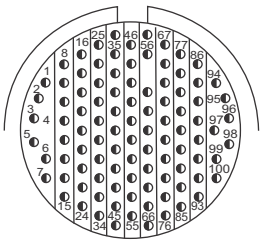


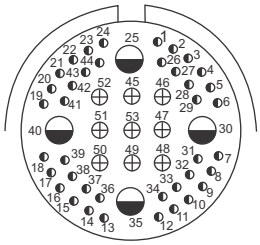


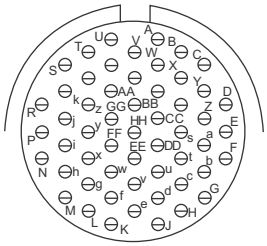


Insert Arrangement	21-16	21-35	21-39	21-41
Service Rating	II	M	I	I
Number of Contacts	16	79	37 2	41
Contact Size	16	22D	20 16	20







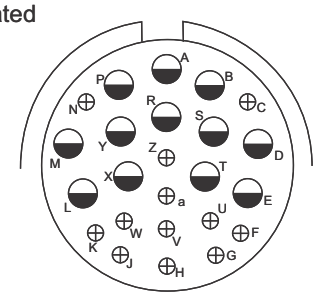


Insert Arrangement	23-21	23-35	23-54	23-55
Service Rating	II	M	M	I
Number of Contacts	21	100	40 9 4	55
Contact Size	16	22D	22D 16 12	20

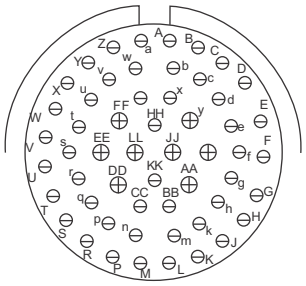
Insert Arrangements

CONTACT LEGEND	12	16	20	22D

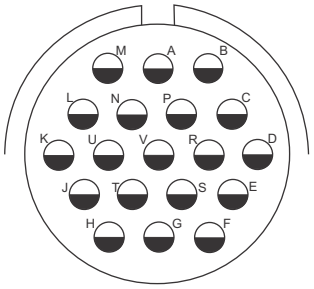
Front face of pin insert illustrated



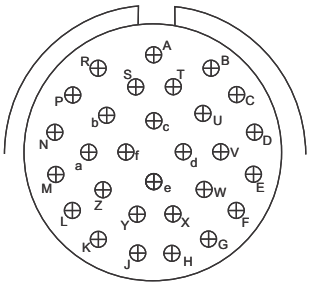
Insert Arrangement	25-24
Service Rating	I
Number of Contacts	12 12
Contact Size	16 12



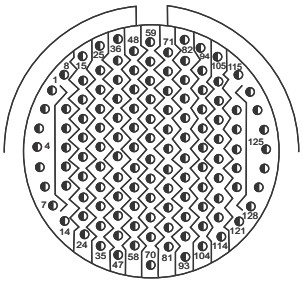
Insert Arrangement	25-4
Service Rating	I
Number of Contacts	48 8
Contact Size	20 16



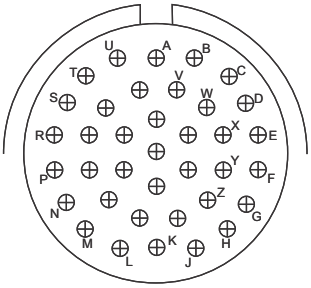
Insert Arrangement	25-19
Service Rating	I
Number of Contacts	19
Contact Size	12



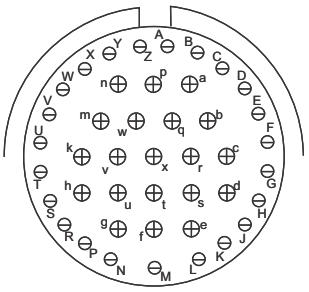
Insert Arrangement	25-29
Service Rating	I
Number of Contacts	29
Contact Size	16



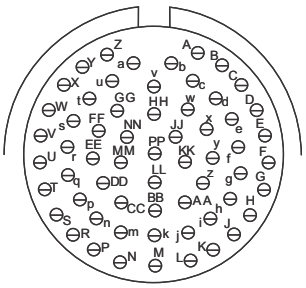
Insert Arrangement	25-35
Service Rating	M
Number of Contacts	128
Contact Size	22D



Insert Arrangement	25-37
Service Rating	I
Number of Contacts	37
Contact Size	16

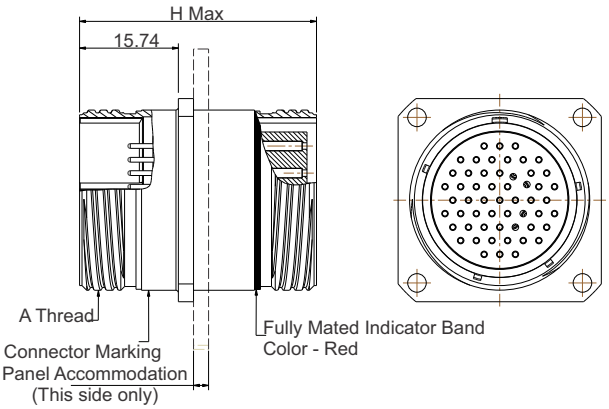


Insert Arrangement	25-43
Service Rating	I
Number of Contacts	23 20
Contact Size	20 16



Insert Arrangement	25-61
Service Rating	I
Number of Contacts	61
Contact Size	20

Hermetic Wall Mount Bulkhead Feed-Through 38999 Series III



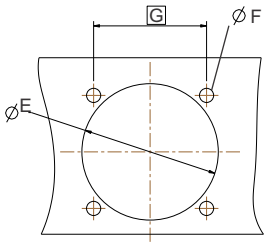
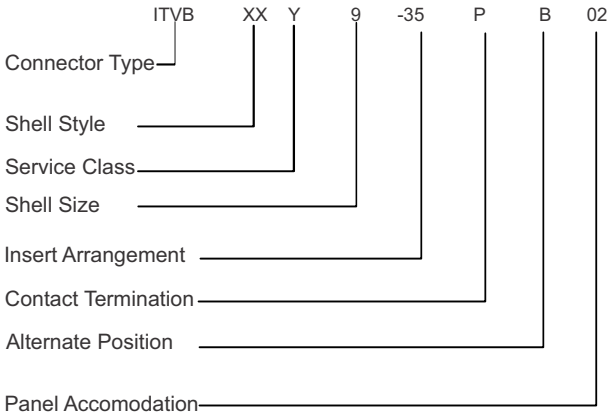


Table I Connector Dimension							
Shell Size	'A' THREAD 0.1P-0.3L-2A	B DIA. ±0.254	C BSC	D DIM ±0.5	ØE Min.	ØF Holes	G BSC
9	0.6250	3.30	18.30	23.80	16.70		18.30
11	0.7500	3.30	20.60	26.20	20.20		20.60
13	0.8750	3.30	23.00	28.60	23.40		23.00
15	1.0000	3.30	24.60	31.00	26.60	3.4/3.1	24.60
17	1.1880	3.30	27.00	33.30	31.00		27.00
19	1.2500	3.00	29.40	36.50	32.90		29.40
21	1.3750	3.30	31.80	39.70	36.10		31.80
23	1.5000	4.00	34.90	42.90	39.30	4.0/3.8	34.90
25	1.6250	4.00	38.10	46.00	42.50	3.9/3.7	38.10

ORDERING INFORMATION



Connector Type
ITVB Bulkhead Feed-Through Connector

Shell Style
00 Wall Mount Receptacle

Service Class
Y - Stainless Steel Shell with Passivation
N - Stainless Steel with Nickel Plating

Shell Size
MIL-DTL-38999, Sizes 9-25

A	B	C	D	E	F	G	H	J	MIL SHELL SIZE
9	11	13	15	17	19	21	23	25	Amphenol Shell Size

Insert Arrangement
MIL-DTL-38999 see Insert Arrangement Chart (Product Catalog)

Contact Termination
P - Pin on Panel Side
S - Socket on Panel Side
PP - Pin on Both Side*
SS - Socket on Both Side*

Alternate Positions

A, B, C, D, E or Blank for Normal

Panel Accommodation

01. 3.175 Min.

02. 6.35 min.

03. 12.70 Min.

*CONTACT IDENTIFICATION REVERSED ON REAR SIDE, USE MATING CONNECTOR ACCORDINGLY. CONTACT FACTORY FOR MORE DETAILS

Hermetic Jam Nut Bulkhead Feed-through 38999 Series III

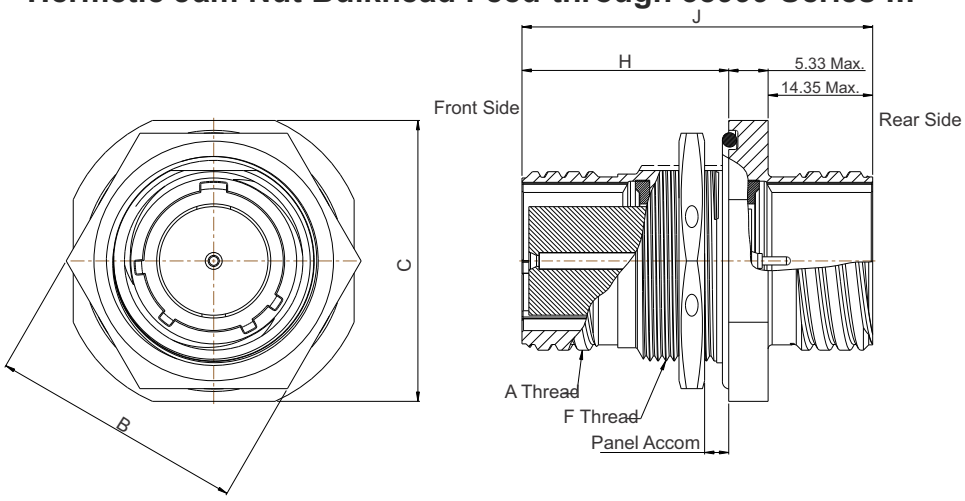
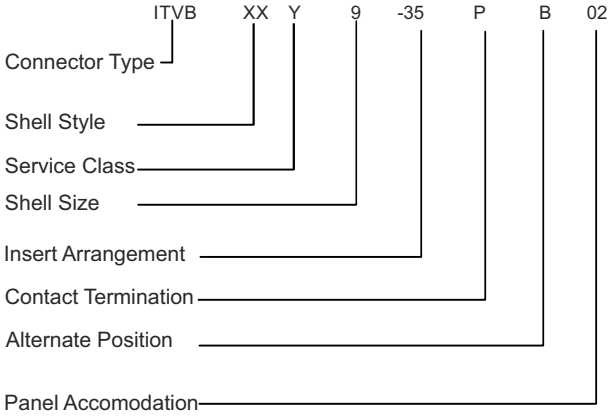


TABLE II		
DASH NO.	J MAX.	H MAX.
01	40.60	22.90
02	43.90	25.90
03	50.30	32.30

Table I Connector Dimension						
Shell Size	'A' THREAD 0.1P-0.3L-TS-2	B DIM.	C DIM. MAX.	D DIA.	E DIM.	F THREAD
9	0.6250	22.20	27.70	17.70	8.20	M17X1
11	0.7500	25.40	32.50	20.90	9.80	M20X1
13	0.8750	31.80	35.60	27.60	12.20	M25X1
15	1.0000	34.90	38.90	28.80	13.70	M28X1
17	1.1875	38.10	42.20	32.00	15.30	M32X1
19	1.2500	41.30	46.70	35.20	16.10	M35X1
21	1.3750	44.50	50.50	38.40	17.70	M38X1
23	1.5000	47.60	53.10	41.50	19.30	M38X1
25	1.6250	50.80	56.10	44.70	20.90	M44X1

ORDERING INFORMATION



Connector Type
ITVB Bulkhead Feed-Through Connector

Shell Style
07 Jam Nut Receptacle

Service Class
Y - Stainless Steel Shell with Passivation

N - Stainless Steel with Nickel Plating

Insert Arrangement
MIL-DTL-38999 see Insert Arrangement Chart (Product Catalog)

Contact Termination
P - Pin on Panel Side
S - Socket on Panel Side
PP - Pin on Both Side
SS - Socket on Both Side

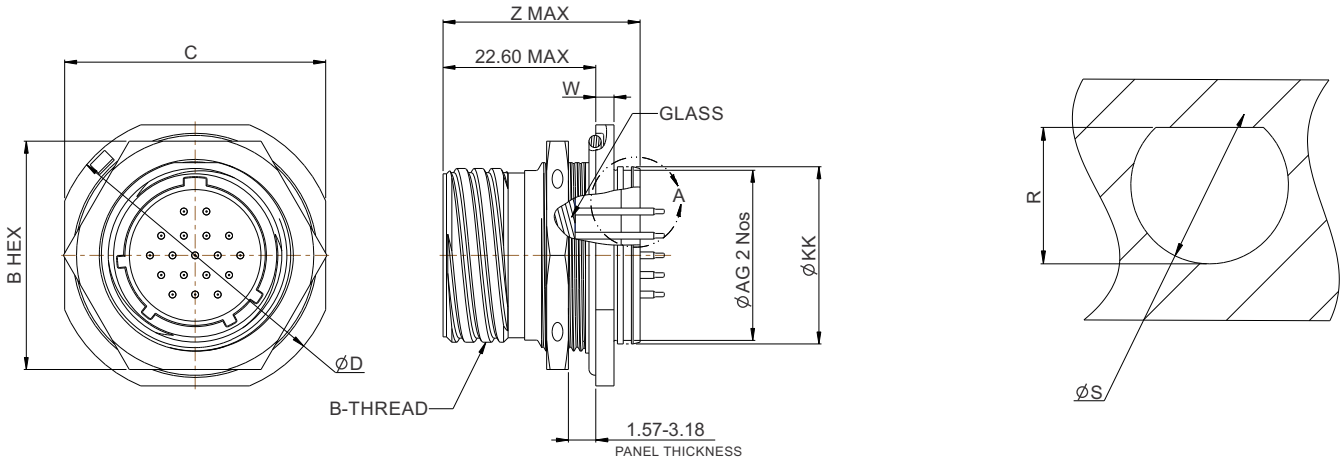
Alternate Positions

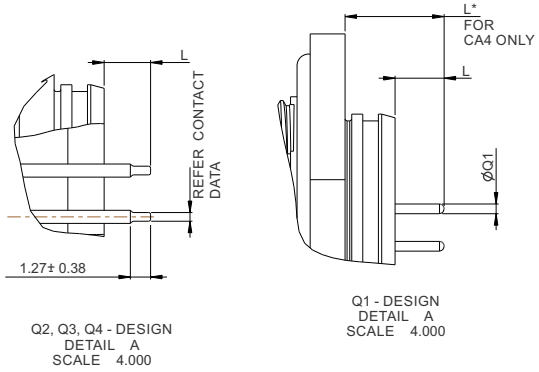
A, B, C, D, E or Blank for Normal

Panel Accommodation	H Max.
01. 3.175 Min.	38.86
02. 6.35 min.	42.16
03. 12.70 Min.	48.51

Shell Size
MIL-DTL-38999, Sizes 9-25

A	B	C	D	E	F	G	H	J	MIL SHELL SIZE
9	11	13	15	17	19	21	23	25	Amphenol Shell Size



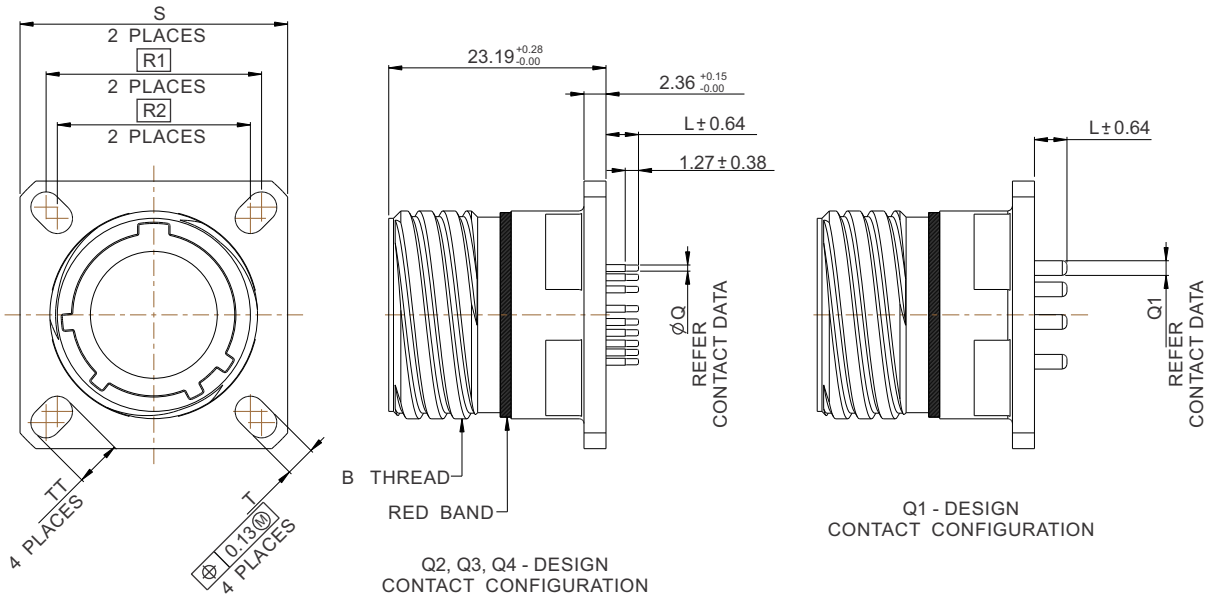


Shell Size	B THREAD CLASS 2A PER 9-3200-2	B +0.43 -0.41	C +0.25	ØD MAX.	ØKK +0.27 -0.00	R +0.0 -0.25	S +0.25 -0.0	Z MAX	W +0.3 -0.1
09	.6250-0.IP-0.3L-TS-2A	22.23	26.97	30.45	16.30	17.02	17.78	29.20	2.60
11	.7500-0.IP-0.3L-TS-2A	25.40	31.75	35.20	19.40	19.59	20.96	29.20	2.60
13	.8750-0.IP-0.3L-TS-2A	30.18	34.93	38.38	22.70	24.26	25.65	29.30	2.60
15	1.0000-0.IP-0.3L-TS-2A	33.32	38.10	41.55	25.90	27.56	28.83	29.30	2.60
17	1.1875-0.IP-0.3L-TS-2A	36.53	41.28	44.80	29.00	30.73	32.01	29.30	2.60
19	1.2500-0.IP-0.3L-TS-2A	39.67	46.02	49.50	32.20	33.91	35.18	30.10	3.40
21	1.3570-0.IP-0.3L-TS-2A	42.80	49.23	52.70	35.40	37.08	38.35	30.10	3.40
23	1.5000-0.IP-0.3L-TS-2A	46.02	52.37	55.85	38.60	40.26	41.53	30.10	3.40
25	1.6250-0.IP-0.3L-TS-2A	50.80	55.58	59.00	41.70	43.43	44.70	30.10	3.40

CONTACT DATA				
CONTACT SIZE	Q - VARIATION (FOR REFERENCE ONLY)			
	Q1 ± 0.05	Q2 ± 0.05	Q3 ± 0.05	Q4 ± 0.05
22, & 22 M, 22D	0.762	Ø 0.48	Ø 0.33	--
20	1.016	Ø 1.48	Ø 0.64	Ø 0.73
16	1.287	Ø 1.73	Ø 1.10	Ø 1.57
12	2.388	--	--	--

L ± 0.64
CA0 =3.81
CA1 =5.00
CA2 =8.50
CA3=15.00
CA4 =7.62*

Note : For ordering information refer page no. 18



SHELL SIZE	MS SHELL SIZE CODED	B THREAD 0.1P-0.3L-TS	R1	R2	S±0.30	T ±0.20	TT±0.20
9	A	0.625	18.26	15.09	23.83	3.25	5.49
11	B	0.750	20.62	18.26	26.20	3.25	4.93
13	C	0.875	23.01	20.62	28.60	3.25	4.93
15	D	1.000	24.61	23.01	31.00	3.25	4.39
17	E	1.188	26.97	24.61	33.30	3.25	4.93
19	F	1.250	29.36	26.97	36.50	3.25	4.93
21	G	1.375	31.75	29.36	39.70	3.25	4.93
23	H	1.500	34.93	31.75	42.90	3.91	6.15
25	J	1.625	38.10	34.93	46.02	3.91	6.15

CONTACT DATA				
CONTACT SIZE	Q - VARIATION (FOR REFERENCE ONLY)			
	Q1 ± 0.05	Q2 ± 0.05	Q3 ± 0.05	Q4 ± 0.05
22, & 22 M, 22D	0.762	Ø0.48	Ø0.33	--
20	1.016	Ø1.48	Ø0.64	Ø0.73
16	1.287	Ø1.73	Ø1.10	Ø1.57
12	2.388	--	--	--

L ± 0.64
CA0 =3.81
CA1 =5.00
CA2 =8.50
CA3=15.00
CA4 =7.62*

Note : For ordering information refer page no. 18

ORDERING INFORMATION

ITVS 07 YN -15 - 35PN -CA1 - Q1 - XX

CONNECTOR TYPE

SHELL TYPE
07 JAMNUT
02 WALLMOUNT

SERVICE CLASS
Y - PASSIVATED SHELL
YN - NICKEL PLATED SHELL

SHELL SIZE

INSERT ARRANGEMENT

CONTACT - TYPE
PIN CONTACTS

VARIATION
JF - WITH PRE TINNED CONTACT
(SELECTIVE TIN PLATE, GOLD UNDER COAT)

CONTACT DIA

CONTACT LENGTH

SHELL POLARISATION

INTRODUCTION

The Amphenol MIL-DTL-83723, Series III family of connectors have proven technology for severe environments and are widely used in commercial and military aerospace markets.

Amphenol 83723 connectors incorporate many advantageous features, such as a unique threaded coupling mechanism that provides greater resistance to decoupling.

This coupling mechanism eliminates the need for safety wiring and tends to couple during vibration-thus offering the user added assurance and a margin of safety.

HERMETIC CONNECTOR PERFORMANCE CHARACTERISTICS	
Thermal Shock	No damage detrimental to the operation of the connector occurs when subjected to 10 cycles of thermal shock from 0°C to 90°C and back to 0°C.
Physical Shock (Mated)	300 G's
Mature Resistance (Mated)	500 Megohms
Insulation Resistance, High Temp.(Mated)	500 Megohms
Corrosion (Unmated)	Complies with MIL-DTL-83723 Req.
Temperature Life	Fully functional for 1000 hours at 200°C (392°F) ambient, Internal temperature 238°C (460°F).
Air Leakage Unmated (Hermeticity)	Leakage rate less than .01 micron per cubic foot per hour (1x10cc/sec) of Helium at 15psi.
Altitude Immersion (Mated)	After 3 cycles immersed in salt water with pressure reduced to 1 in. Hg (75,000 ft. attitude) for 30 minutes and returned to atmosphere pressure. While connectors submerged insulation resistance should remain 1000 megohms minimum and support 1500 volts RMS applied without flash-over or breakdown.
High Potential Voltage Altitude (Unmated)	When tested in accordance with ME-STD-202, Method 301, no flash-over or breakdown under simulated altitude conditions as shown: **Altitude Service Rating I** 50,000.....500 AC-RMS 70,000.....375 AC RMS 110,000.....200 AC-RMS

HERMETIC STYLE CONNECTORS

- Hermetic styles are available in threaded and bayonet receptacles with solderwell or flat eyelet termination. PC Tail Designs are available on request.
- Designed for environmental moisture sealing with fused compression glass sealed inserts
- High temperature Hermetics 200°C and 260°C

DESIGN FEATURES (THREADED STYLE SHOWN)

- MIL-DTL-83723, Series III family of connectors have proven technology for severe environments and are widely used in commercial and military aerospace markets.
- 83723 Series III high temperature styles are capable of operation at 260° C/500°F. Contact factory for more details.
- The Amphenol 83723 family provides hermetic class that exceed the most stringent specification requirements

FEATURES

- Hermetic:
  Hermetic styles are available in threaded and bayonet receptacles with solderwell or flat eyelet termination. PC Tail designs are available on request.

  Environmental:
  Designed for environmental moisture sealing with fused compression glass sealed inserts.

  High Temperature Hermetics:
  200^{0}C and 260^0 C firewall also available. Contact factory for more details.

MIL-DTL-83723 Series III

How to order-Hermetic & Military Commercial

	1	2	3	4	5
MILITARY HERMETIC	Connector Type	Connector Style and Contact Type	Service Class	Shell Size/ Insert Arrangement	Alternate Keying Position of Shell
	JM 83723	/88	Y	16-24	6

	1	2	3	4	5	6
COMMERCIAL HERMETIC	Connector Type	Shell Style	Service Class	Shell Size/ Insert Arrangement	Contact Type	Alternate Keying Position of Shell
	IMT	57	Y	16-24	P	6

1. MILITARY CONNECTOR TYPE	
JM83723	Designates MII-DTL-83723 Series III Connectors

2. MILITARY HERMETIC CONNECTOR TYPE	
/88	Hermetic, Threaded Square Flange Receptacle
/89	Hermetic, Threaded Jam Nut (D-Hole Mount) Receptacle
/90	Hermetic, Threaded Solder Mounted Receptacle
/79	Hermetic, Bayonet Coupling Square Flange Receptacle
/80	Hermetic, Bayonet Coupling Solder Flange Mount Receptacle
/81	Bayonet Coupling Jam-Nut Mount Receptacle
/93	Bayonet Coupling Solder Flange Mount Receptacle with Straight Pin Contacts
/94	Hermetic, Bayonet Coupling Jam-Nut Mount Receptacle with Straight Pin

3. SERVICE CLASS	
H	Steel shell, Class H, Solderwell contacts, electro-deposited tin plated shell.
J	Steel shell, Class J, eyelet contacts, electro-deposited tin plated shell.
L	Stainless Steel, Class L, eyelet contacts electro-deposited nickel plated shell.
N	Stainless Steel, Class N, Solderwell contacts, electro-deposited Nickel plated shell.
P	Stainless Steel Shell Passivated finish, Class P, Eyelet contacts
Y	Stainless Steel, Class Y, Solderwell contacts

Straight PC tail pin contacts, also available. Contact factory for more details.

4. SHELL SIZE & INSERT ARRANGEMENT	
Page no. 22	First number present Shell Size, second number is the insert arrangement.

5. ALTERNATE KEYING POSITION - ROTATION	
Page no. 22	Use N for normal. Use 6,7,8,9 or Y for alternate key positions. See page no. 22 for descriptions

1. COMMERCIAL HERMETIC CONNECTOR STYLE	
IMT	Designates Amphenol Thread Coupling Connector
IMB	Designates Amphenol Bayonet Coupling Connector

2. SHELL STYLE	
-57	Square Flange Receptacle
-59	Jam Nut (D-Hole Mount) Receptacle
-54	Solder Mounted Receptacle

3. SERVICE CLASS	
H	Steel shell, Class H, Solderwell contacts, electro-deposited tin plated shell.
J	Steel shell, Class J, eyelet contacts, electro-deposited tin plated shell.
L	Stainless Steel, Class L, eyelet contacts electro-deposited nickel plated shell.
N	Stainless Steel, Class N, Solderwell contacts, electro-deposited Nickel plated shell.
P	Stainless Steel Shell Passivated finish, Class P, Eyelet contacts
Y	Stainless Steel, Class Y, Solderwell contacts

Straight PC tail pin contacts, also available. Contact factory for more details.

4.SHELL SIZE & INSERT ARRANGEMENT	
Page no. 22	First number presents Shell Size, second number is the insert arrangement.

5.CONTACT TYPE	
	PIN Contacts.

6.ALTERNATE KEYING POSITION - ROTATIONPIN	
Page no. 22	Use N for normal. Use 6, 7, 8, 9 or Y for alternate keying positions. See page no. 22 for descriptions.

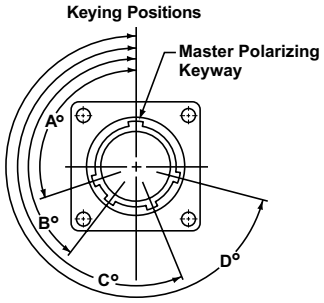
Insert Availability and Identification, Alternate Keying Positions, Alternate Rotations

INSERT ARRANGEMENTS

Shell Size/ Insert Arrangement	Service Rating	Total Contacts	Contact Size		
			12	16	20
0803	I	3			3
0898	I	3			3
1002	I	2			2
1005	I	5			5
1006	I	6			6
1020	I	2		2	
1203	I	3		3	
1212	I	12			12
1404	I	4	4		
1407	I	7		7	
1412	I	12		3	9
1415	I	15			15
1610	I	10		10	
1624	I	24			24
1808	I	8	8		
1814	I	14		14	
1831	I	31			31
2016	I	16		16	
2025	I	25	6		19
2028	I	28	4		24
2039	I	39		2	37
2041	I	41			41
2212	I	12	12		
2219	I	19		19	
2232	I	32	6		26
2239*	I	39		12	27
2255	I	55			55
2443	I	43		20	23
2457	I	57	2		55
2461	I	61			61

ALTERNATE KEYING POSITIONS (Rotation of key/keyway of shell)

To avoid cross-plugging problems in applications requiring the use of more than one connector of the same size and arrangement, alternate keying positions are available as indicated in the chart below. The diagram shows the engaging view of a receptacle shell with keyways. Plug shells would be the opposite of this diagram. In the “alternate keying positions” (positions 6, 7, 8, 9 and Y), the minor keys/keyways are positioned with reference to master key/keyway as indicated in the keying position table.



Shown is Engaging Face View of Receptacle Shell with Keyways (Plug Shell Keys would be Opposite)

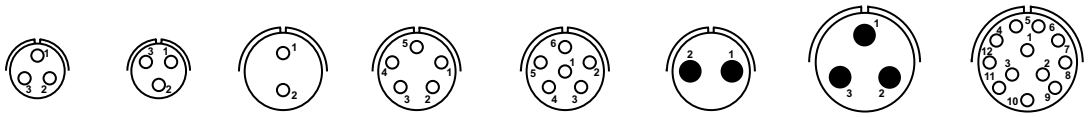
ALTERNATE KEYING POSITIONS OF SHELL

Shell Size	Polarizing Position	Key/Keyway Positions			
		A°	B°	C°	D°
8 thru 24	N	105	140	215	265
8 & 10	6	102	132	248	320
	7	80	118	230	312
	8	35	140	205	275
	9	64	155	234	304
10 only	Y*	25	115	220	270
12, 14, 16, 18, 20, 22, 24 and 28	6	18	149	192	259
	7	92	152	222	342
	8	84	152	204	334
	9	24	135	199	240
	Y*	98	152	268	338

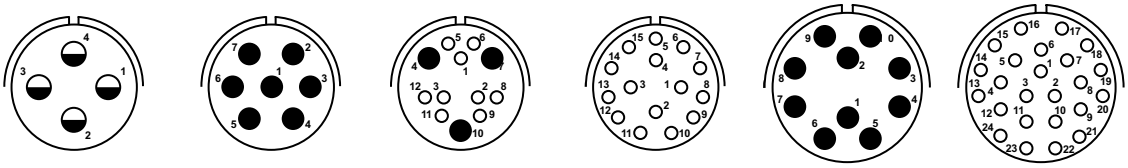
* Position Y supersedes inactive positions 10 and Z designations. Ref. MIL-STD-1554.

Insert Arrangements

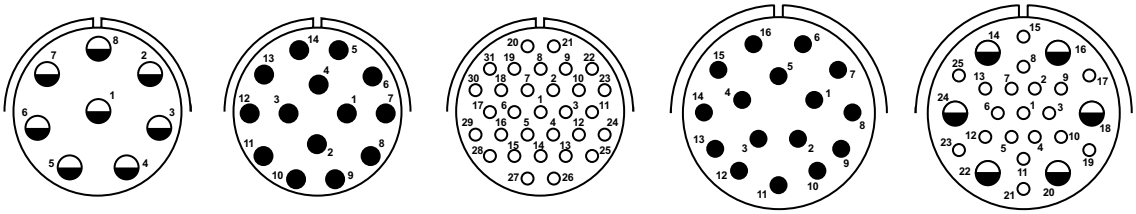
Front Face of Pin Insert or Rear Face of Socket Insert Illustrated



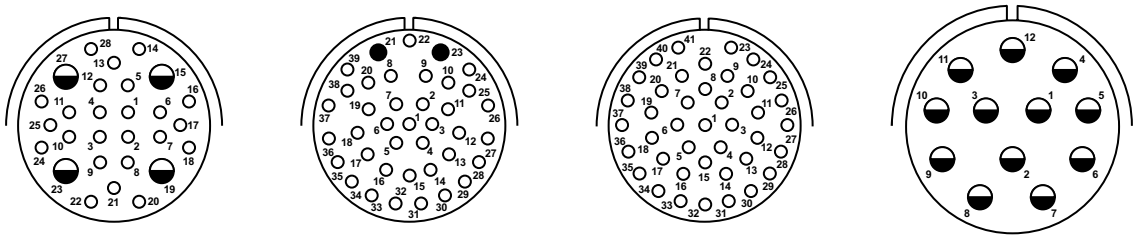
Insert Arrangement	0803	0898	1002	1005	1006	1020	1203	1212
Service Rating	I	I	I	I	I	I	I	I
Number of Contacts	3	3	2	5	6	2	3	12
Contact Size	20	20	20	20	20	16	16	20



Insert Arrangement	1404	1407	1412	1415	1610	1624
Service Rating	I	I	I	I	I	I
Number of Contacts	4	7	9 3	15	10	24
Contact Size	12	16	20 16	20	16	20



Insert Arrangement	1808	1814	1831	2016	2025
Service Rating	I	I	I	I	I
Number of Contacts	8	14	31	16	19 6
Contact Size	12	16	20	16	20 12



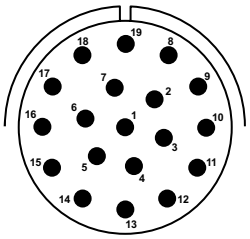
Insert Arrangement	2028	2039	2041	2212
Service Rating	I	I	I	I
Number of Contacts	24 4	37 2	41	12
Contact Size	20 12	20 16	20	12

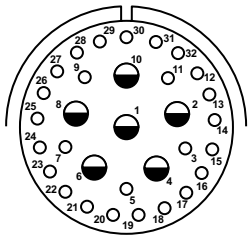
NOTE: Connectors sold as mil-spec connectors will have mil-spec markings on the insert (a "snail-trail" designating the numerical path). Commercial versions will have insert markings as shown here.

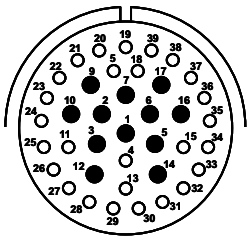
CONTACT LEGEND ○ 20 ● 16 ◒ 12

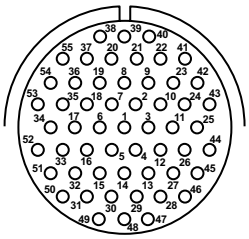
Insert Arrangements

Front Face of Pin Insert or Rear Face of Socket Insert Illustrated

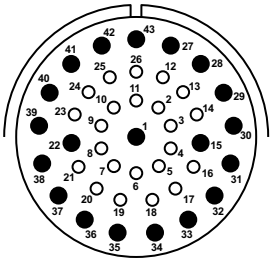


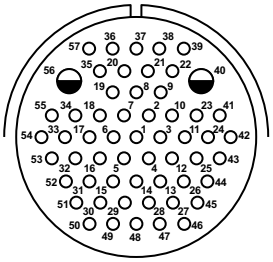




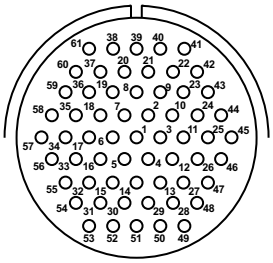


Insert Arrangement	2219	2232		2239		2255
Service Rating	I	I		I		I
Number of Contacts	19	26	6	27	12	55
Contact Size	16	20	12	20	16	20





Insert Arrangement	2443		2457	
Service Rating	I		I	
Number of Contacts	23	20	55	2
Contact Size	20	16	20	12



Insert Arrangement	2461
Service Rating	I
Number of Contacts	61
Contact Size	20

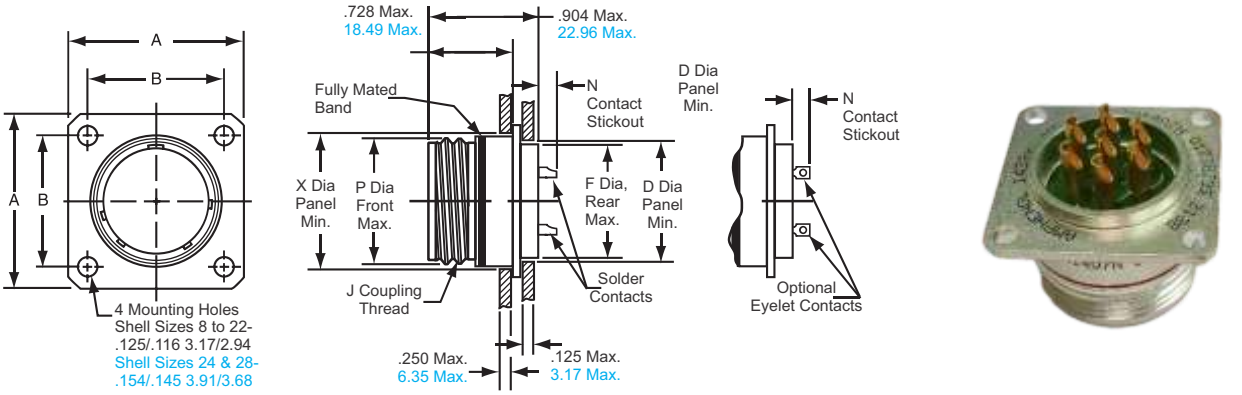
†Not a MS layout.
Connectors with these insert arrangements can be ordered by commercial part number only.
Shell size 28 is available in threaded coupling connectors only.
* Consult Amphenol India for availability of arrangement 22-39.

NOTE: Connectors sold as mil-spec connectors will have mil-spec markings on the insert (a "snail-trail" designating the numerical path).
Commercial versions will have insert markings as shown here.

CONTACT LEGEND	○ 20	● 16	◒ 12

JM83723/88 Hermetic Square Flange Mount Receptacle, Threaded Coupling, Solder & Eyelet Contact Termination.

MILITARY	COMMERCIAL
JM83723/88H	IMT57-H
JM83723/88J	IMT57-J
JM83723/88L	IMT57-L
JM83723/88N	IMT57-N
JM83723/88P	IMT57-P
JM83723/88Y	IMT57-Y



When Fully Mated with plug, this band will be covered.

Inches

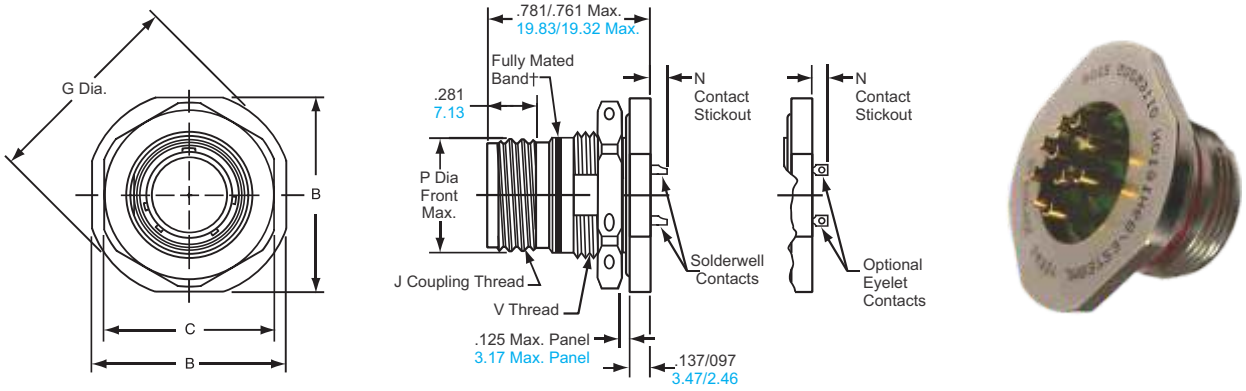
Shell Size	A ±.010	B ±.005	D Dia Panel Min.	F Dia Rear Max.	J Coupling Thread Class 2A	N Contact Stickout		P Dia Front Max.	X Dia Panel Min.
						Size 20 Contacts	Size 12& 16 Contacts		
8	.812	.594	.510	.500	.5625-24 UNF	.194/.134	.224/.164	.562	.572
10	.937	.719	.635	.625	.6875-24 UBEF	.194/.134	.224/.164	.636	.706
12	1.031	.812	.760	.750	.8750-20 UNEF	.194/.134	.224/.164	.875	.885
14	1.125	.906	.885	.875	.9375-20 UNEF	.194/.134	.224/.164	.936	.946
16	1.250	.969	1.010	1.000	1.0625-18 UNEF	.194/.134	.224/.164	1.062	1.072
18	1.343	1.062	1.072	1.062	1.1875-18 UNEF	.194/.134	.224/.164	1.187	1.197
22	1.562	1.250	1.322	1.312	1.4375-18 UNEF	.194/.134	.224/.164	1.437	1.447

Millimeters

Shell Size	A ±.25	B ±.13	D Dia Panel Min.	F Dia Rear Max.	N Contact Stickout		P Dia Front Max.	X Dia Panel Min.
					Size 20 Contacts	Size 12&16 Contacts		
8	20.62	15.09	12.95	12.70	4.93/3.40	5.69/4.17	14.27	15.75
10	23.80	18.26	16.13	15.88	4.93/3.40	5.69/4.17	17.68	18.99
12	26.19	20.62	19.30	19.05	4.93/3.40	5.69/4.17	22.23	23.19
14	28.58	23.01	22.48	22.23	4.93/3.40	5.69/4.17	23.77	24.89
16	31.75	24.61	25.65	25.40	4.93/3.40	5.69/4.17	26.97	28.12
18	34.11	26.97	27.23	26.97	4.93/3.40	5.69/4.17	30.15	30.71
22	39.67	31.75	33.58	33.32	4.93/3.40	5.69/4.17	36.50	36.88

JM83723/89 Hermetic Jam Nut (D-Hole Mount) Receptacle, Threaded Coupling, Solder & Eyelet Contact Termination.

MILITARY	COMMERCIAL
JM83723/89H	IMT59-H
JM83723/89J	IMT59-J
JM83723/89L	IMT59-L
JM83723/89N	IMT59-Y
JM83723/89P	IMT59-P
JM83723/89Y	IMT59-Y



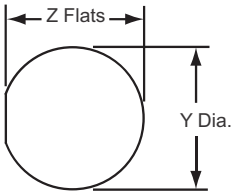
When Fully Mated with plug, this band will be covered.

Inches

Shell Size	B Flats Max.	C Hex Max.	G Dia Max.	J Coupling Thread Class 2A	N Contact Stickout		P Dia Front Max.	V Thread Class 2A	Y Dia ±.005	Z Flats ±.005
					Size 20 Contacts	Size 12& 16 Contacts				
8	.980	.828	1.068	.5625-24 UNF	.180/.120	.210/.150	.562	.6250-20 UNF	.635	.605
10	1.104	.953	1.192	.6875-24 UBEF	.180/.120	.210/.150	.696	.7500-20 UBEF	.760	.730
12	1.291	1.140	1.380	.8750-20 UNEF	.180/.120	.210/.150	.875	.9380-20 UNEF	.947	.917
14	1.391	1.205	1.505	.9375-20 UNEF	.180/.120	.210/.150	.936	1.0000-20 UNEF	1.010	.980
16	1.516	1.329	1.630	1.0625-18 UNEF	.180/.120	.210/.150	1.062	1.1250-18 UNEF	1.135	1.105
18	1.641	1.455	1.756	1.1875-18 UNEF	.180/.120	.210/.150	1.187	1.2500-18 UNEF	1.260	1.225
22	1.954	1.705	2.068	1.4375-18 UNEF	.180/.120	.210/.150	1.437	1.5000-18 UNEF	1.510	1.475

Millimeters

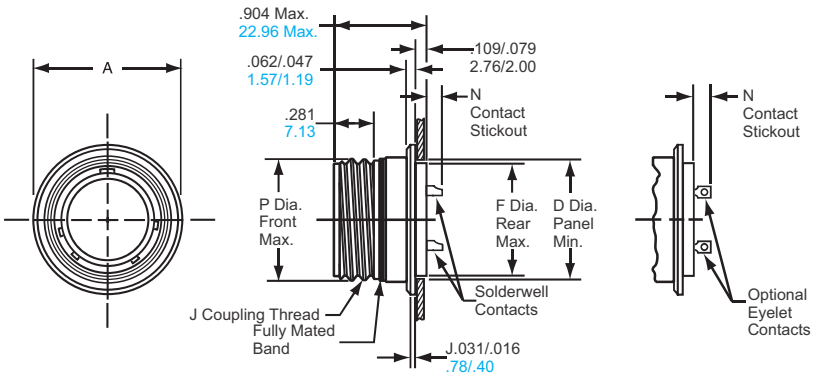
Shell Size	B Flats Max.	C Hex Max.	G Dia Max.	N Contact Stickout		P Dia Front Max.	Y Dia ±.13	Z Flats ±.13
				Size 20 Contacts	Size 12&16 Contacts			
8	24.89	21.03	27.13	4.57/3.05	5.33/3.81	14.27	16.13	15.37
10	28.04	24.21	30.28	4.57/3.05	5.33/3.81	17.68	19.30	18.54
12	32.79	28.96	35.05	4.57/3.05	5.33/3.81	22.23	24.05	23.29
14	35.33	30.61	38.23	4.57/3.05	5.33/3.81	23.77	25.65	24.89
16	38.51	33.76	41.40	4.57/3.05	5.33/3.81	26.97	28.83	28.07
18	41.68	36.96	44.60	4.57/3.05	5.33/3.81	30.15	32.00	31.12
22	49.63	43.31	52.53	4.57/3.05	5.33/3.81	36.47	38.35	37.47



Panel Cutout Hole
(Panel Thickness .125/.062 3.18/1.57)

JM83723/90 Hermetic Solder/Weld Mount Receptacle, Receptacle, Threaded Coupling, Solder & Eyelet Contact Termination.

MILITARY	COMMERCIAL
JM83723/90H	IMT54-H
JM83723/90J	IMT54-J
JM83723/90L	IMT54-L
JM83723/90N	IMT54-Y
JM83723/90P	IMT54-P
JM83723/90Y	IMT54-Y



When Fully Mated with plug, this band will be covered.

Inches

Shell Size	A ±.010	D Dia Panel Min.	F Dia Rear Max.	J Coupling Thread Class 2A	N Contact Stickout		P Dia Front Max.
					Size 20 Contacts	Size 12& 16 Contacts	
8	.713.	.510	.500	.5625-24 UNF	.194/.134	.224/.164	.562
10	.840	.572	.562	.6875-24 UBEF	.194/.134	.224/.164	.696
12	1.045	.760	.750	.8750-20 UNEF	.194/.134	.224/.164	.875
14	1.090	.822	.812	.9375-20 UNEF	.194/.134	.224/.164	.936
16	1.210	.947	.937	1.0625-18 UNEF	.194/.134	.224/.164	1.062
18	1.340	1.072	1.062	1.1875-18 UNEF	.194/.134	.224/.164	1.187
22	1.562	1.322	1.312	1.4375-18 UNEF	.194/.134	.224/.164	1.437

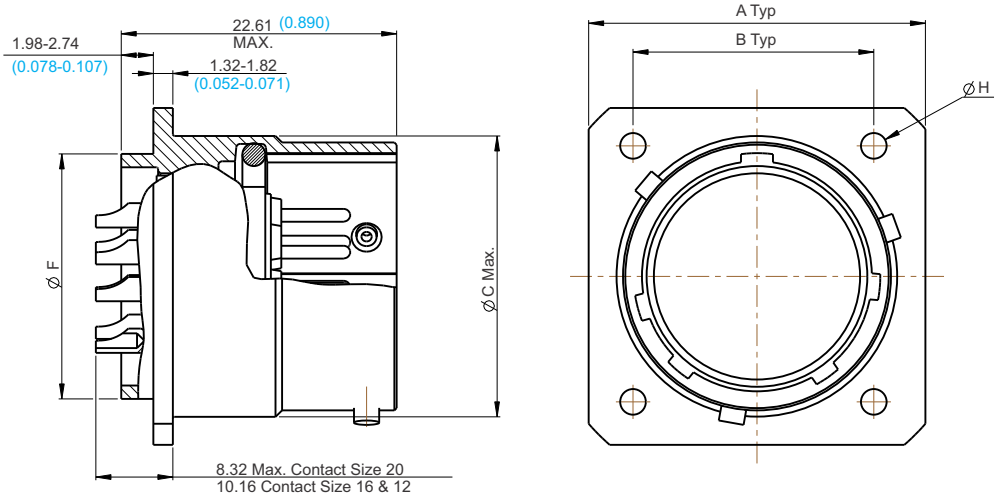
Millimeters

Shell Size	A ±.25	D Dia Panel Min.	F Dia Rear Max.	N Contact Stickout		P Dia Front Max.
				Size 20 Contacts	Size 12&16 Contacts	
8	18.11	12.95	12.70	4.93/3.40	5.69/4.17	14.27
10	21.34	14.53	14.27	4.93/3.40	5.69/4.17	17.68
12	26.564	19.30	19.05	4.93/3.40	5.69/4.17	22.23
14	27.69	20.88	20.62	4.93/3.40	5.69/4.17	23.77
16	30.73	24.05	23.80	4.93/3.40	5.69/4.17	26.97
18	34.04	27.23	26.97	4.93/3.40	5.69/4.17	30.15
22	39.67	33.58	33.32	4.93/3.40	5.69/4.17	36.50

JM83723/79 Hermetic Bayonet Coupling Square Flange Receptacle Connector With Solder & Eyelet Terminal

MILITARY
JM83723/79H
JM83723/79J
JM83723/79L
JM83723/79P
JM83723/79Y

COMMERCIAL
IMB57-H
IMB57-J
IMB57-L
IMB57-P
IMB57-Y



Inches

Shell Size	A	B	ØC MAX	ØF ±0.005	ØH ±0.005
8	0.812	0.594	0.561	0.500	0.120
10	0.937	0.719	0.696	0.562	0.120
12	1.031	0.812	0.875	0.750	0.120
14	1.125	0.906	0.935	0.812	0.120
16	1.250	0.969	1.062	0.937	0.120
18	1.343	1.062	1.187	1.062	0.120
20	1.437	1.156	1.312	1.187	0.120
22	1.562	1.250	1.437	1.312	0.120
24	1.703	1.375	1.562	1.437	0.149

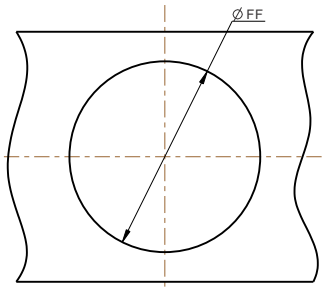
Millimeter

Shell Size	A	B	ØC MAX	ØF ±0.13	ØH ±0.13
8	20.62	15.09	14.25	12.70	3.05
10	23.80	18.26	17.69	14.27	3.05
12	26.19	20.62	22.23	19.05	3.05
14	28.58	23.01	23.75	20.62	3.05
16	31.75	24.61	26.97	23.80	3.05
18	34.11	26.97	30.15	36.97	3.05
20	36.50	29.36	33.32	30.15	3.05
22	39.67	31.75	36.50	33.32	3.05
24	43.26	34.93	39.67	36.50	3.78

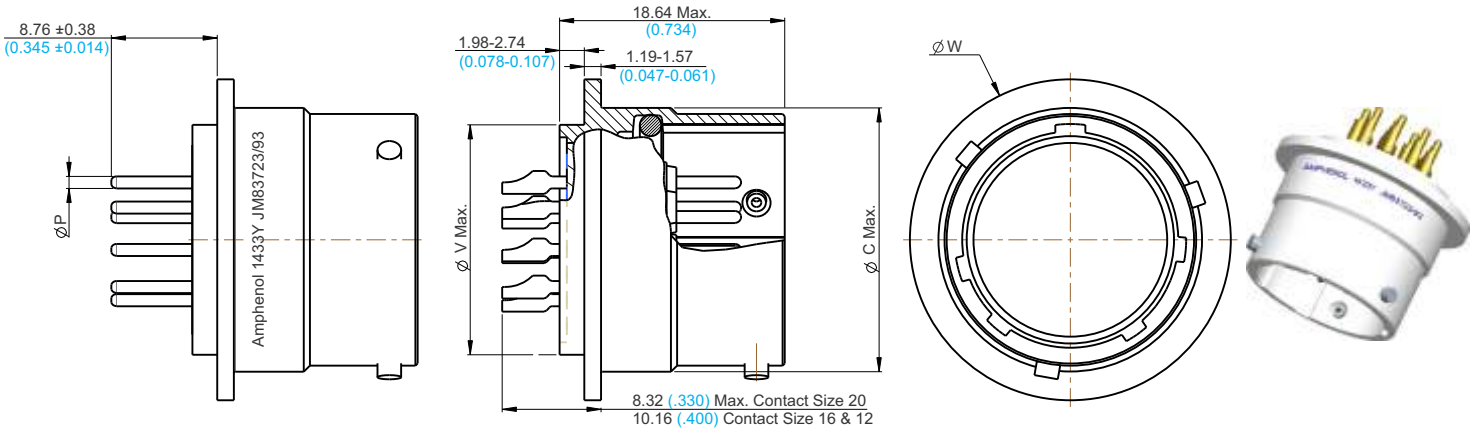
JM83723/80 Hermetic Bayonet Coupling Square Flange Receptacle Connector With Solder & Eyelet Termination.

MILITARY	COMMERCIAL
JM83723/80H	IMB54H
JM83723/80J	IMB54J
JM83723/80L	IMB54L
JM83723/80P	IMB54P
JM83723/80Y	IMB54Y
Solderwell & Eyelet Contact.	

MILITARY	MILITARY
JM83723/93H	Contact
JM83723/93Y	Factory
Straight Pin	



Panel Cutout Details



J M83723/93 J M83723/80

Inches

Shell Size	ØC MAX ±0.13	Ø V MAX	ØW ±0.02	Ø FF ±0.005	ØGG MIN
8	0.561	0.500	0.740	0.510	0.406
10	0.696	0.562	0.840	0.572	0.443
12	0.875	0.750	1.045	0,760	0.668
14	0.935	0.812	1.090	0.822	0.668
16	1.062	0.937	1.210	0.947	0.763
18	1.187	1.062	1.340	1.072	0.862
20	1.312	1.187	1.430	1.197	1.108
22	1.437	1.312	1.590	1.322	1.204
24	1.562	1.437	1.710	1.447	1.388

CONTACT SIZE	Ø P 0.05
12	2.39
16	1.57
20	1.02

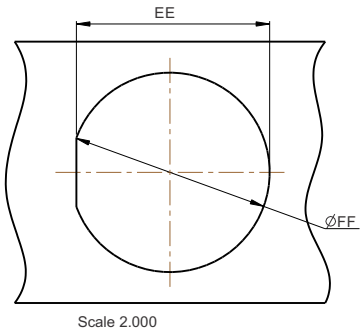
Millimeter

Shell Size	ØC MAX ±0.13	Ø V MAX	ØW	Ø FF ±0.12	ØGG MIN
8	14.25	12.70	18.80	12.95	10.31
10	17.67	14.24	21.34	14.53	11.25
12	22.20	19.05	26.54	19.30	16.96
14	23.25	20.62	27.69	20.88	16.96
16	26.97	23.78	30.73	24.05	19.38
18	30.14	26.97	34.04	27.23	21.89
20	33.32	29.94	36.32	30.40	28.14
22	36.50	33.32	40.39	33.58	30.58
24	39.67	36.50	43.33	36.75	35.25

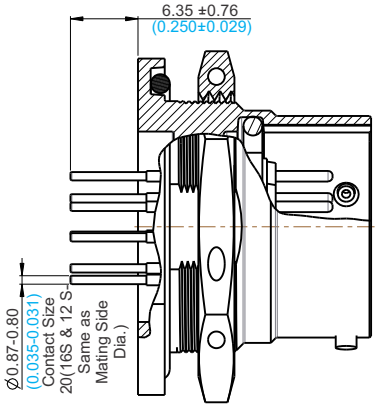
JM83723/81 Hermetic Bayonet Coupling Jam Nut (D-Hole Mount) Receptacle Connector With Solder & Eyelet Termination.
JM83723/94 Hermetic Bayonet Coupling Jam Nut (D-Hole Mount) Receptacle Connector With Straight Pin (PC-Tail) Termination.

MILITARY	COMMERCIAL
JM83723/81H	IMB59-H
JM83723/81J	IMB59-J
JM83723/81L	IMB59-L
JM83723/81P	IMB59-P
JM83723/81Y	IMB59-Y
Solderwell & Eyelet Contact	

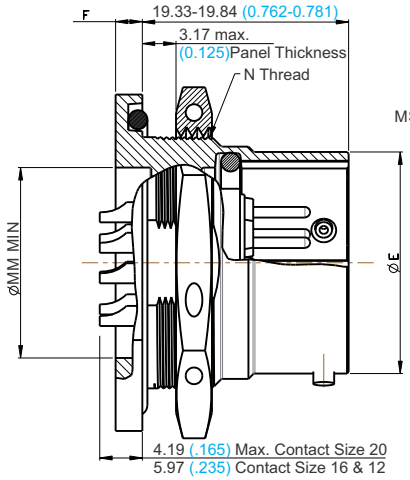
MILITARY	COMMERCIAL
JM83723/94H	CONTACT FACTORY
JM83723/94Y	
Straight Pin	



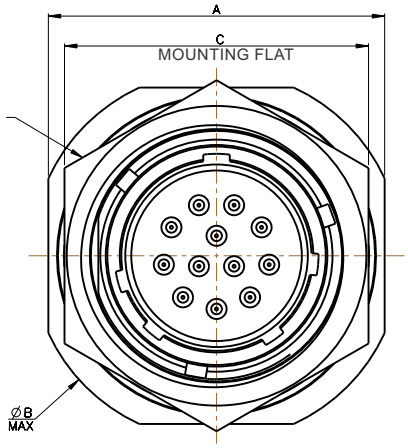
Scale 2.000



JM83723/94



JM83723/81



MM (INCH)

Shell Size	A ±0.13 (0.005)	ØB MAX	C ±0.08 (0.003)	ØE ±0.06 (0.002)	F ±0.51 (0.02)	N THREAD	ØMM MIN.	EE PANEL CUTOUT	ØFF PANEL CUTOUT
8	24.87(0.979)	27.13(1.068)	15.06(0.593)	13.55(0.533)	2.97(0.117)	0.625-20 UN-2A	12.52(0.493)	15.37(0.605)	16.13(0.635)
10	28.04(1.104)	30.28(1.192)	18.24(0.718)	16.68(0.657)	2.97(0.117)	0.750-20 UNEF -2A	14.10(0.555)	18.54(0.730)	19.30(0.760)
12	32.79(1.291)	35.05(1.380)	22.99(0.905)	21.00(0.827)	2.97(0.117)	0.9372-20 UNEF -2A	18.87(0.743)	23.30(0.917)	24.05(0.947)
14	35.33(1.391)	38.23(1.505)	24.59(0.968)	22.75(0.896)	2.97(0.117)	1.000-20 UNEF-2A	20.45(0.805)	24.90(0.980)	25.65(1.010)
16	38.51(1.516)	41.40(1.630)	27.76(1.093)	25.98(1.023)	2.97(0.117)	1.125-20 UNEF -2A	23.65(0.931)	28.07(1.105)	28.83(1.135)
18	41.68(1.641)	44.83(1.765)	30.91(1.217)	28.66(1.128)	2.97(0.117)	1.250-18 UNEF -2A	26.80(1.055)	31.22(1.229)	32.00(1.260)
20	44.86(1.766)	47.24(1.860)	34.09(1.342)	31.84(1.254)	2.97(0.117)	1.3675-18 UNEF-2A	31.57(1.243)	34.40(1.354)	35.18(1.385)
22	49.63(1.954)	52.53(2.068)	37.26(1.467)	35.01(1.378)	3.76(0.148)	1.500-18 UNEF-2A	33.15(1.305)	37.57(1.479)	38.35(1.510)
24	52.81(2.079)	54.86(2.160)	40.44(1.592)	38.19(1.504)	3.76(0.148)	1.625-18 UNEF-2A	37.92(1.493)	40.74(1.604)	41.53(1.635)

Amphenol

solder mounting receptacle

box mounting receptacle

jam nut receptacle

Three shell styles are available in the hermetic PT bayonet series:

- **PTIH (MS3113H)**
- **PT02H**
- **PT07H (MS3114H)**

These hermetic connectors are only available with solder cup or flat eyelet pin contacts in the MS/PT version. Socket contacts are available in some proprietary PT versions. Other design characteristics of the PT hermetic connector series are as follows:

Shell sizes: 8 through 24 (tin plated)

Contact count: 2 through 61. Refer to pages for insert availability for hermetics.

Current: 5.0 amp each #20 contact
10 amp each #16 contact
17 amp each #12 contact

Contacts are tin plated for PT; gold is optional

Dielectric Withstanding Voltage (sea level):
1500 volts (RMS) 60 cps, Service Rating I
2300 volts (RMS) 60 cps, Service Rating II

Compression glass inserts, permanently lettered

Helium Leakage: Less than 1.0 X 10^{-6} cc/sec. at 15 psi differential

Physical Shock: 100 G's

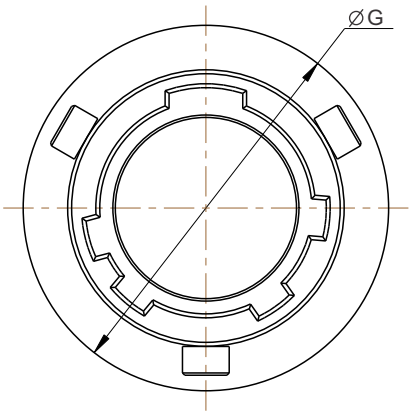
Vibration: Exceeds MIL-E-5272 Procedure II

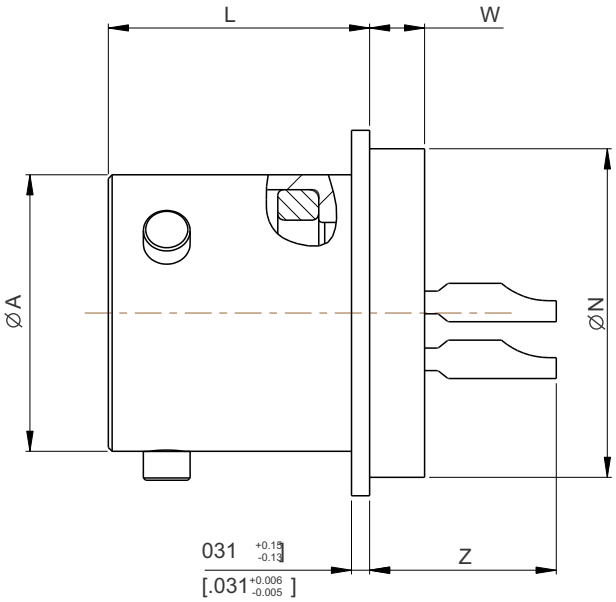
Thermal Shock: No deterioration or failure after 5 cycles at –55°F to +257°F

Intermateability: Mates with MS3116 and PT06

Refer to pages 37 for insert arrangement availability.

PTIH (MS3113H)
Hermetic Solder Mounting Receptacle





*PTIH-XX-XXX
**PTIY-XX-XXX
†PTIH-XX-XXX (100)
††PTIY-XX-XXX (100)

To complete part number see how to order on page no. 36
*Solder cup pin contacts without interfacial seal
**Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
†† Flat eyelet pin contacts with interfacial seal

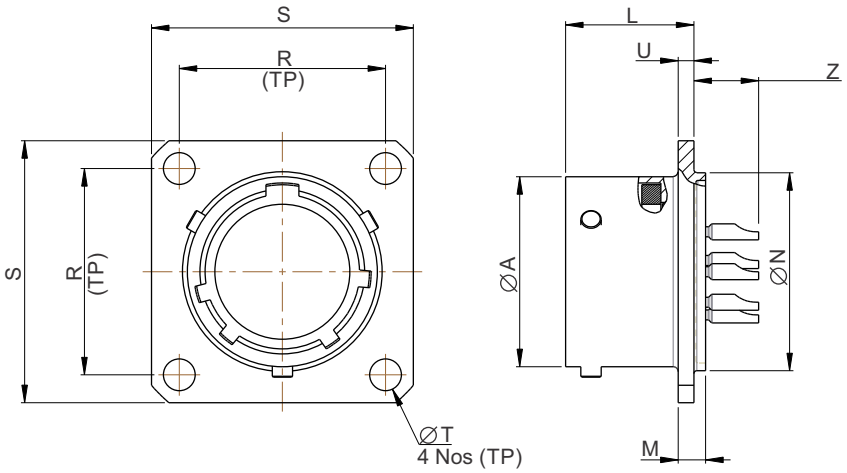
Shell Size	Recept. front View	Receptacle Side View				
	G Dia. Max.	A Dia. +.001 -.005	L +.025 -.016	N Dia. +.001 -.005	W. +.011 -.010	Z. Max.
6	.511	.348	.447	.438	.094	.386
8	.636	.473	.447	.562	.094	.386
10	.761	.590	.447	.672	.094	.386
12	.855	.750	.447	.781	.094	.386
14	.980	.875	.447	.906	.094	.386
16	1.105	1.000	.447	1.031	.094	.386
18	1.229	1.125	.447	1.156	.094	.386
20	1.329	1.250	.509	1.250	.094	.386
22	1.449	1.375	.509	1.375	.125	.418
24	1.574	1.500	.542	1.500	.125	.418

All dimensions for reference only.

DIMENSIONS ARE IN MM

SHELL SIZE	FRONT VIEW	Receptacle Side View				
	Ø G MAX	Ø A +0.03 -0.13	L +0.64 -0.41	Ø N +0.02 -0.13	W +0.28 -0.25	Z MAX
8	16.15	12.01	11.35	14.27	3.96	9.80
10	19.33	15.00	11.35	17.07	3.96	9.80
12	21.72	19.05	11.35	19.84	3.96	9.80
14	24.89	22.23	11.35	23.01	3.96	9.80
16	28.07	25.40	11.35	26.19	3.96	9.80
18	31.22	28.58	11.35	29.36	3.96	9.80
20	33.76	31.75	12.93	31.75	3.96	9.80
22	36.80	34.93	12.93	34.93	4.78	10.62
24	39.98	38.10	13.78	38.10	4.78	10.62

PT02H
Hermetic Box Mounting Receptacle



*PT02H-XX-XXX
**PT02Y-XX-XXX
†PT02H-XX-XXX (100)
††PT02Y-XX-XXX (100)

To complete part number see how to order on page no. 36
*Solder cup pin contacts without interfacial seal
**Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
††Flat eyelet pin contacts with interfacial seal

Shell Size	R (TP)	ØT ±0.005	S ±.016	Ø Dia. 0.001 -0.005	L 0.025 -0.015	N Dia. 0.001 -0.005	U 0.011 -0.01	Z Max.	M 0.007 -0.005
6	0.469	0.12	0.688	0.348	0.494	0.438	0.062	0.344	0.109
8	0.594	0.12	0.812	0.473	0.494	0.562	0.062	0.344	0.109
10	0.719	0.12	0.938	0.59	0.494	0.672	0.062	0.344	0.109
12	0.812	0.12	1.031	0.75	0.494	0.781	0.062	0.344	0.109
14	0.906	0.12	1.125	0.875	0.494	0.906	0.062	0.344	0.109
16	0.969	0.12	1.219	1	0.494	1.031	0.062	0.344	0.109
18	1.062	0.12	1.312	1.125	0.494	1.156	0.062	0.344	0.109
20	1.156	0.12 0.12	1.438	1.25	0.556	1.25	0.062	0.344	0.109
22	1.25	0.12 0.12	1.562	1.375	0.556	1.375	0.062	0.377	0.141
24	1.375	0.147	1.688	1.5	0.588	1.5	0.062	0.377	0.141

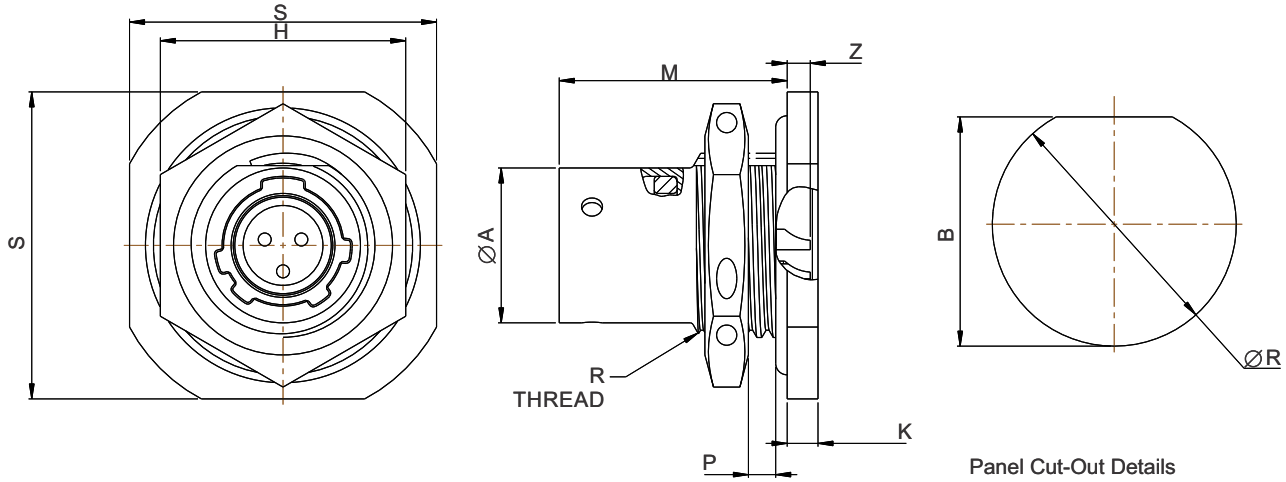
ALL DIMNENSIONS ARE FOR REFERENCE ONLY

DIMENSIONS ARE IN MM

Shell Size	R (TP)	Recept. Front View ØT ±0.13	Recept. Front View S ±0.41	Receptacle Side View ØA 0.03 -0.38	L 0.635 -0.381	N Dia. 0.03 -0.13	U 0.03 -0.25	Z Max.	M 0.17 -0.13
6	11.91	3.05	17.48	8.84	12.55	11.13	1.57	8.74	2.77
8	15.09	3.05	20.62	12.01	12.55	14.27	1.57	8.74	2.77
10	18.26	3.05	23.83	14.99	12.55	17.07	1.57	8.74	2.77
12	20.62	3.05	26.19	19.05	12.55	19.84	1.57	8.74	2.77
14	23.01	3.05	28.58	22.23	12.55	23.01	1.57	8.74	2.77
16	24.61	3.05	30.96	25.40	12.55	26.19	1.57	8.74	2.77
18	26.97	3.05	33.32	28.58	12.55	29.36	1.57	8.74	2.77
20	29.36	3.05	36.53	31.75	14.12	31.75	1.57	8.74	2.77
22	31.75	3.05	39.67	34.93	14.12	34.93	1.57	9.58	3.58
24	34.93	3.73	42.88	38.10	14.94	38.10	1.57	9.58	3.58

All dimensions are for reference only

PT07H (MS3114H)
Hermetic Jam Nut Receptacle



Panel Cut-Out Details

*PT07H-XX-XXX
**PT07Y-XX-XXX
†PT07H-XX-XXX (100)
††PT07Y-XX-XXX (100)

To complete part number see how to order on page no. 36
*Solder cup pin contacts without interfacial seal
**Solder cup pin contacts with interfacial seal
† Flat eyelet pin contacts without interfacial seal
†† Flat eyelet pin contacts with interfacial seal

Shell Size	Receptacle Front View		Receptacle Side View								
	S +.016	H Hex +.017 -.005	A +.001 -.005	K +.043 1.016	M +.031 -.000	P Panel Thickness Max.	P Panel Thickness Min.	R Thread Class 2A	Z Max.	ØR +0.25 -0.00	B +0.00 -0.25
6	.812	.625	.348	.094	.696	.125	.062	.4375-28 UNEF	.206	11.35	10.67
8	.938	.750	.473	.094	.696	.125	.062	.5625-24 NEF	.206	14.53	13.77
10	1.062	.975	.590	.094	.696	.125	.062	.6875-24 NEF	.206	17.70	16.99
12	1.250	1.062	.750	.094	.696	.125	.062	.6750-20 UNEF	.206	22.45	21.08
14	1.375	1.188	.875	.094	.696	.125	.062	1.0000-2- UNEF	.206	25.58	24.26
16	1.500	1.312	1.000	.094	.696	.125	.062	1.1250-18 NEF	.206	28.80	27.53
18	1.625	1.438	1.125	.094	.696	.125	.062	1.2500-18 NEF	.206	31.98	30.68
20	1.812	1.562	1.250	.125	.884	.250	.062	1.3750-18 NEF	.081	35.15	33.86
22	1.938	1.688	1.375	.125	.884	.250	.062	1.5000-18 NEF	.081	38.28	37.06
24	2.062	1.812	1.500	.125	.917	.260	.062	1.6250 18 NEF	.048	41.50	40.01

All dimensions for reference only.

PT Hermetic How To Order

To more easily illustrate ordering procedure, part number PT02H-20-4110 shown as follows:

PT	00	A	-	20	-	41	P	W
1	2	3		4		5	6	7

See code below

Connector Type:
PT- Equivalent to MIL-DTL- 26482 Sr. I

2. Shell Style:

02 - Designates box mounting receptacle
07 - Designates jam nut receptacle
I - Designates solder mount receptacle (Hermitically only)

3. Service Classes:

H - Designates hermitic* without interfacial
Y - Designates hermetic* with interfacial seal

4. Shell Size:

20 - Designates shell size. Shell sizes 6 through 24 available

5. Insert layout: Refer page no. 37.

6. Pin type:
Male pin with solder pocket termination

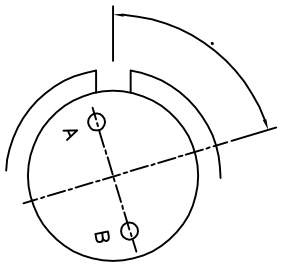
7.Insert alternative position:
W, X, Y, Z omit code for normal orientation, refer page no. 38.

Insert Availability

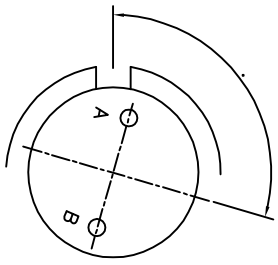
Shell Size	Layout	Total Contacts	Contact Size		
			20	16	12
8	8–2	2	2		
8	8–3	3	3		
8	8–4	4	4		
8	8–33	3	3		
10	10–6	6	6		
10	10–98	6	6		
12	12–3	3		3	
12	12–10	10	10		
14	14–4	4			4
14	14–5	5		5	
14	14–12	12	8	4	
14	14–15	15	14	1	
14	14–18	18	18		
14	14–19	19	19		
16	16–8	8		8	
16	16–23	23	22	1	
16	16–26	26	26		
18	18–11	11		11	
18	18–30	30	29	1	
18	18–32	32	32		
20	20–16	16		16	
20	20–39	39	37	2	
20	20–41	41	41		
22	22–21	21		21	
22	22–41	41	27	14	
22	22–55	55	55		
24	24–61	61	61		

Insert Alternate Positioning

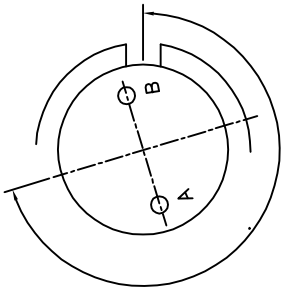
Layout	Positions			
	W°	X°	Y°	Z°
8–2	58	122	–	–
8–3	60	210	–	–
8–4	45	97	184	–
8–33	90	–	–	–
10–6	90	–	–	–
10–98	90	180	240	270
12–3	–	–	180	–
12–10	60	155	270	295
14–4	45	–	–	–
14–5	40	92	184	273
14–12	43	90	–	–
14–15	17	110	155	234
14–18	15	90	180	270
14–19	30	165	315	–
16–8	54	152	180	331
16–23	158	270	–	–
16–26	60	–	275	338
18–11	62	119	241	340
18–30	180	193	285	350
18–32	85	138	222	265
20–16	238	318	333	347
20–39	63	144	252	333
20–41	45	126	225	–
22–21	16	135	175	349
22–41	39	135	264	–
22–55	30	142	226	314
24–61	90	180	270	324



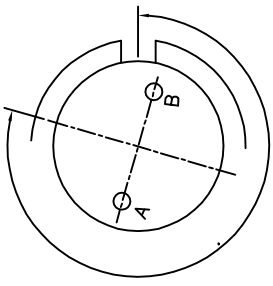
Position W



Position X



Position Y

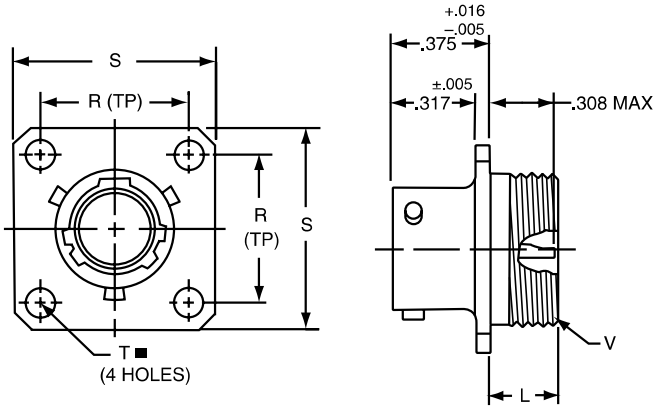


Position Z

Alternate Insert Positioning
To avoid cross-plugging problems in applications requiring the use of more than one miniature cylindrical connector of the same size and arrangement, alternate insert rotations are available as indicated in the accompanying chart. As shown in the diagram at right, the front face of the pin insert is rotated within the shell in a clockwise direction from the normal shell key. The socket insert would be rotated counterclockwise the same number of degrees in respect to the normal shell key.

IJT00 (MS27475 Ref.) Series II - Hermetic

Part No. Commercial			Part no. ref. To complete see how to order.			
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
IJT/IJTS	00	Y	22-2	P	A	(XXX)



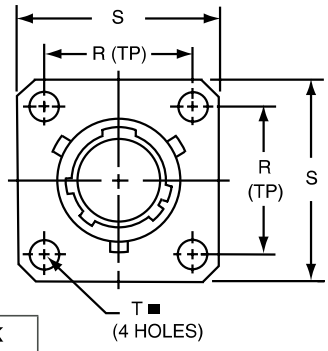
Shell Size	L Max.	N +.001 –.005	R (TP)	S ±.016	T ±.005	V Thread Class 2A
8	.234	.473	.594	.812	.120	.5625-24UNEF
10	.234	.590	.719	.938	.120	.6875-24UNEF
12	.234	.750	.812	1.031	.120	.8125-20UNEF
14	.234	.875	.906	1.125	.120	.9375-20UNEF
16	.234	1.000	.969	1.219	.120	1.0625-18UNEF
18	.234	1.125	1.062	1.312	.120	1.1875-18UNEF
20	.234	1.250	1.156	1.438	.120	1.3125-18UNEF
22	.234	1.375	1.250	1.562	.120	1.4375-18UNEF
24	.313	1.500	1.375	1.688	.147	1.5625-18UNEF

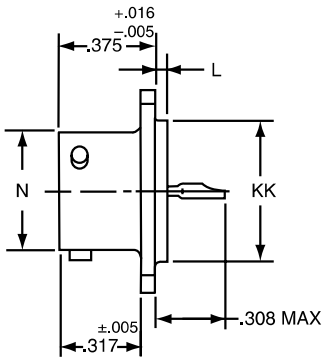
*Standard Junior Tri-Lock
** Interfacial Seal
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.

*IJTH-XX-XXX
**IJTY-XX-XXX (MS27475YXXDXXX)
***IJTY-XX-XXX (MS27482YXXEXXX)

IJT02 (MS27476) Series II - Hermetic Box Mounting Receptacle (Proprietary Part)

*Standard Junior Tri-Lock
** Interfacial Seal
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.



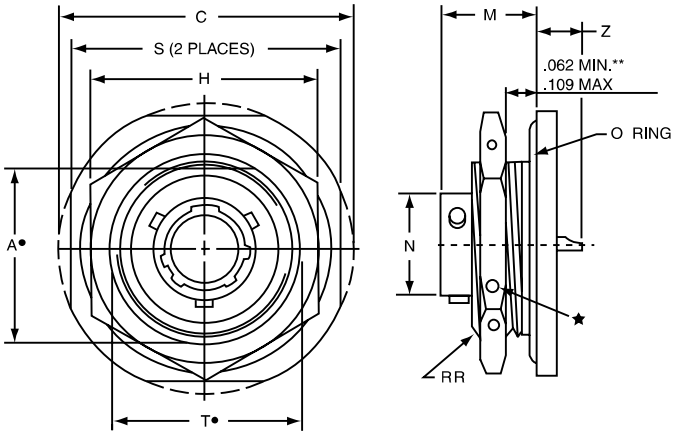


Shell Size	L +.006 –.015	N +.001 –.005	R (TP)	S ±.016	T ±.005	KK +.001 –.005
8	.051	.473	.594	.812	.120	.562
10	.051	.590	.719	.938	.120	.672
12	.051	.750	.812	1.031	.120	.781
14	.051	.875	.906	1.125	.120	.906
16	.051	1.000	.969	1.219	.120	1.031
18	.051	1.125	1.062	1.312	.120	1.156
20	.051	1.250	1.156	1.438	.120	1.250
22	.080	1.375	1.250	1.562	.120	1.375
24	.080	1.500	1.375	1.688	.147	1.500

All dimensions for reference only.

*IJT02H-XX-XXX
**IJT02Y-XX-XXX (MS27476YXXDXXX)
***IJT02Y-XX-XXX (MS27476YXXEXXX)

IJT01 (MS27477 Ref.) Series II - Hermetic



Part No. Commercial			Part no. ref. To complete see how to order.			
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
JT/JTS	07	H	22-2	P	A	(XXX)

*IJT07H-XX-XXX
**IJT07Y-XX-XXX (MS27477YXXD)
***IJT07Y-XX-XXX (MS27483YXXEXXX)

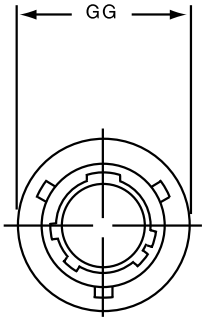
*Standard Junior Tri-Lock
▯ .059 Dia.Min. 3 Lockwire Holes Formed Lockwire Hole Design (6 Holes) Is Optional
'D' Shaped Mounting Hole Dimensions
** Interfacial Seal Wafer
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.

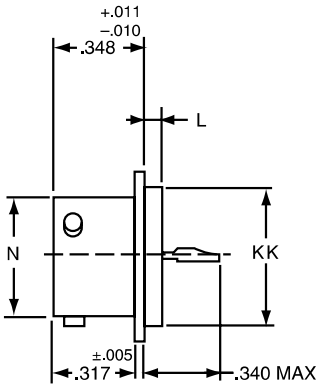
Shell Size	A• +.000 −.010	C Max.	H +.017 −.016	M ±.005	N +.001 −.005	S ±.016	T• +.010 −.000	Z Max.	RR Thread Class 2A
8	.830	1.390	1.062	.438	.473	1.250	.884	.244	.8750-20UNEF
10	.955	1.515	1.188	.438	.590	1.375	1.007	.244	1.0000-20UNEF
12	1.084	1.640	1.312	.438	.750	1.500	1.134	.244	1.1250-18UNEF
14	1.208	1.765	1.438	.438	.875	1.625	1.259	.244	1.2500-18UNEF
16	1.333	1.953	1.562	.438	1.000	1.781	1.384	.244	1.3750-18UNEF
18	1.459	2.031	1.688	.438	1.125	1.890	1.507	.244	1.5000-18UNEF
20	1.576	2.156	1.812	.464	1.250	2.016	1.634	.218	1.6250-18UNEF
22	1.701	2.280	2.000	.464	1.375	2.140	1.759	.218	1.7500-18UNS
24	1.826	2.405	2.125	.464	1.500	2.265	1.884	.218	1.8750-16UN

IJTI (MS27478) Series II - Hermetic Solder Mounting Receptacle (Proprietary Part)

*IJTIY-XX-XXX
**IJTIY-XX-XXX (MS27478YXXDXXX)
***IJTIY-XX-XXX (MS27503YXXEXXX)

*Standard Junior Tri-Lock
** Interfacial Seal
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.



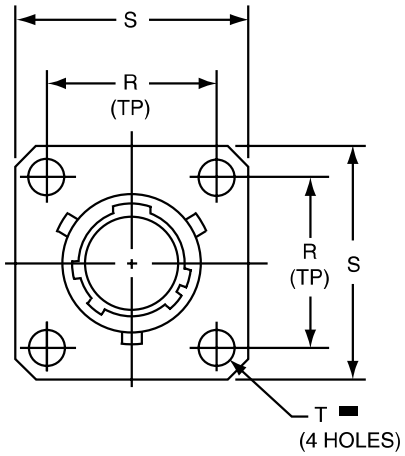


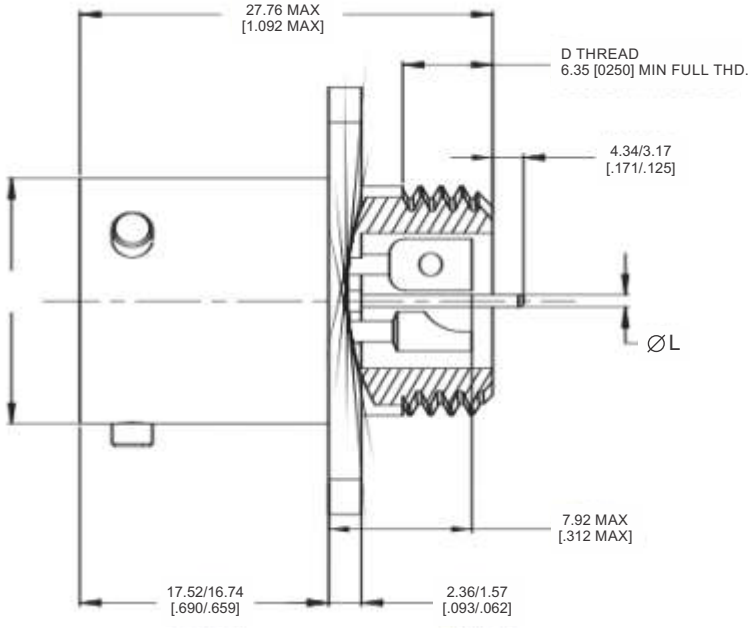
Shell Size	L +.011 −.010	N +.001 −.005	GG +.011 −.010	KK +.001 −.005
8	.078	.473	.687	.562
10	.078	.590	.797	.672
12	.078	.750	.906	.781
14	.078	.875	1.031	.906
16	.078	1.000	1.156	1.031
18	.078	1.125	1.281	1.156
20	.078	1.250	1.375	1.250
22	.107	1.375	1.500	1.375
24	.107	1.500	1.625	1.500

All dimensions for reference only.
Weld mounting hermetic receptacle also available. Contact factory for more information.

ILJT00 (MS27469 Ref.) Series I - Hermetic

Part No. Commercial			Part no. ref. To complete see how to order.			
Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
ILJ/ILJS	00	Y	22-2	P	A	(XXX)





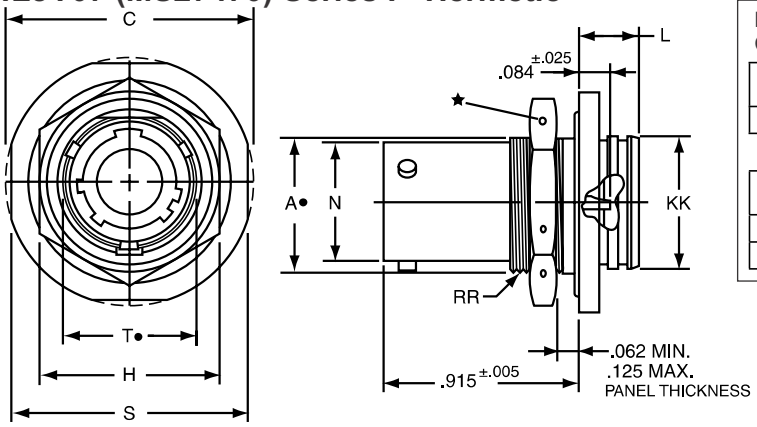
*ILJT00H-XX-XXX
**ILJT00Y-XX-XXX (MS27469YXXD)
***ILJT00Y-XX-XXX (MS27469YXXE)

*Long Junior Tri-Lock
** Interfacial Seal Wafer
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.

Shell Size	N Dia. +.001 –.005	R (TP)	S ±.016	T Dia. ±.005	RR Thread Class 2A
9	.572	.719	.938	.128	.6875-24 UNEF
11	.700	.812	1.031	.128	.8125-20 UNEF
13	.850	.906	1.125	.128	.9375-20 UNEF
15	.975	.969	1.219	.128	1.0625-18 UNEF
17	1.100	1.062	1.312	.128	1.1875-18 UNEF
19	1.207	1.156	1.438	.128	1.3125-18 UNEF
21	1.332	1.250	1.562	.128	1.4375-18 UNEF
23	1.457	1.375	1.688	.147	1.5625-18 UNEF
25	1.582	1.500	1.812	.147	1.6875-18 UNEF

All dimensions for reference only.

ILJT07 (MS27470) Series I - Hermetic



Part No. Commercial — Part no. ref. To complete see how to order.

Connector Type	Shell Style	Service Class	Shell Size & Insert Arrg	Contact Type	Alternate Position	Special Variations
LJT/LJTS	H	RE	22-2	P	A	(XXX)

Military

MS Number	Service Class	Shell Size	Finish	Insert Arrg	Contact Style (P or S)	Alternate Position
MS27470	Y	14	A	18	P	A
MS27471	Y	14	A	18	P	A

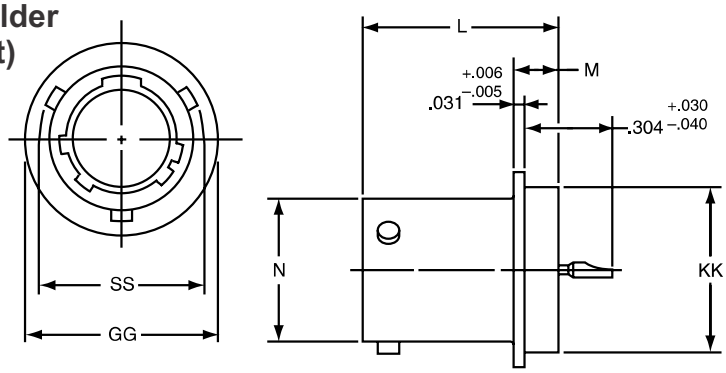
Shell Size	A• +.000 −.010	C Max.	H Hex +.017 −.016	L Max.	N +.000 −.005	S ±.016	T• +.010 −.000	KK +.011 −.000	RR Thread Class 2A (Plated)
9	.669	1.199	.875	.297	.572	1.062	.697	.642	.6875-24 UNEF
11	.769	1.386	1.000	.297	.700	1.250	.822	.766	.8125-20 UNEF
13	.955	1.511	1.188	.297	.850	1.375	1.007	.892	1.0000-20 UNEF
15	1.084	1.636	1.312	.297	.975	1.500	1.134	1.018	1.1250-18 UNEF
17	1.208	1.761	1.438	.297	1.100	1.625	1.259	1.142	1.2500-18 UNEF
19	1.333	1.949	1.562	.328	1.207	1.812	1.384	1.268	1.3750-18 UNEF
21	1.459	2.073	1.688	.328	1.332	1.938	1.507	1.392	1.5000-18 UNEF
23	1.580	2.199	1.812	.328	1.457	2.062	1.634	1.518	1.6250-18 UNEF
25	1.709	2.328	2.000	.328	1.582	2.188	1.759	1.642	1.7500-18 UNS

All dimensions for reference only.

*ILJT00H-XX-XXX
**ILJT07Y-XX-XXX (MS27470YXXD)
***ILJT07Y-XX-XXX (MS27470YXXE)

 .059 Dia.Min. 3 Lockwire Holes Formed Lockwire Hole Design (6 Holes) Is Optional
'D' Shaped Mounting Hole Dimensions
**Long Junior Tri-Lock
** Interfacial Seal Wafer
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.

ILJT (MS27471) Series I - Hermetic Solder Mounting Receptacle (Proprietary Part)



*Long Junior Tri-Lock
** Interfacial Seal Wafer
***High Temp. Version, Interfacial Seal Wafer With Stainless Steel Shell.

Shell Size	N Dia. +.001 −.005	SS Dia. +.000 −.016	L +.011 −.000	M +.006 −.005	GG Dia. +.011 −.010	KK Dia. +.001 −.005
9	.572	.662	.789	.125	.750	.672
11	.700	.810	.789	.125	.844	.781
13	.850	.960	.789	.125	.969	.906
15	.975	1.085	.789	.125	1.094	1.031
17	1.100	1.210	.789	.125	1.218	1.156
19	1.207	1.317	.789	.125	1.312	1.250
21	1.332	1.442	.789	.125	1.438	1.375
23	1.457	1.567	.821	.156	1.563	1.500
25	1.582	1.692	.821	.156	1.688	1.625

All dimensions for reference only.
Weld mounting hermetic receptacle also available.
Contact factory for more information.

*ILJTH-XX-XXX
**ILJTY-XX-XXX (MS27471YXXD)
***ILJTY-XX-XXX (MS27471YXXE)

Notes:

Amphenol

A Global Company

Pune Operations

Bangalore Operations

Amphenol

Interconnect India Pvt. Ltd.

Manufacturing Locations

Corporate Office & Pune Factory
105, Bhosari Industrial Area, Pune - 411 026.
Tel.: 91-20-6736 0305
Fax : 91-20-6736 0321
Email: svpatil@amphenol-in.com

Bangalore Factory
61, Keonics Electronic City, Hosur Road,
Bangalore - 560 102.
Tel.: 91-6679 0900 /910 /937
Fax.: 91-80-2852 0418

Marketing Locations

Marketing Headquarters
Tel.: 91-20-6736 0303, 6736 0304
Fax : 91-20-6736 0321
Email : svpatil@amphenol-in.com

Western Region
Tel.: 91-20-6736 0334
Email : sunilp@amphenol-in.com

Northern & Eastern Region
A-421, Pacific Business Park,
Plot No. 37/1, Sahibabad Indst. Area
Site IV, Ghaziabad (UP) - 201 010.
Tel.: 91-120- 6513 781 /82 /83 /84
Email : sunily@amphenol-in.com

Southern Region
No. 1115, 22nd Main Road, 11th Cross,
Sector -1, HSR Layout, Bangalore - 560 102.
Tel.: 91-80-4953 0341, 4953 0345
Fax: 91-80-4953 8697
Email : kmanoj@amphenol-in.com

Central Region
9/17/A&B, 4th Floor, West Block,
Pinnacle Towers, Road No. 6, IDA Nacharam,
Hyderabad - 500076
Tel.: 91-40-2930 2810
Fax.: 91-40-2930 2811
Email : pprasad@amphenol-in.com

Exports
Tel.: 91-20-6736 0371, 6736 0353
Email : shrikantgramopadhye@amphenol-in.com