

CONNECTOR

INC CUSTOMERS GUIDE



MIL-DTL 5015 Type connectors
VG95234 Type INB connectors
MIL-DTL 26482 Series Type connectors





MIL-DTL-5015 Type CONNECTORS



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Frequency	Percentage
Never	10%
Sometimes	40%
Often	50%



Technical Specifications

[Materials & Finishes]

Shell, Endbell	Aluminum alloy / Olive drab chromate coating over cadmium or zinc plating
Insulator	Synthetic rubber
Contact	Copper alloy / Silver plating
Gasket and Grommet	Synthetic rubber

[Electrical Data]

Operating Voltage
Test Voltage

Service Rating	Operating Voltage DC V	Operating Voltage AC V r.m.s.	Test Voltage AC V r.m.s.	Air Spacing Nominal (Inches)	Creepage Nominal (Inches)
Inst.	250	200	1000	-	1/16
A	700	500	2000	1/16	1/8
D	1250	900	2800	1/8	3/16
E	1750	1250	3500	3/16	1/4
B	2450	1750	4500	1/4	5/16
C	4200	3000	7000	5/16	1

Current Rating at 68°F
(+20°C)

Contact Size	Contact Resistance Milliohm Max.	Test Current (Amps)	Potential Drop (Millivolts)
16	16	13	49
12	3	23	42
8	1	46	26
4	0.5	80	23
0	0.2	150	21

Insulator Resistance

Min. 5000 MΩ at 77°F (+25°C) per MIL-DTL-5015, 3.18

[Mechanical]

Operating Temperature
Sealing

-67°F (-55°C) to +257°F (+125°C)
48 hours in 6 feet of water per MIL-DTL-5015, 4.6.19.

Wire Sealing Range

Contact Size	Insulation Outside Diameter Limit			
	Min. (Inches)	Min. (mm)	Max. (Inches)	Max. (mm)
16	0.064	1.63	0.130	3.30
12	0.114	2.90	0.170	4.32
8	0.164	4.17	0.255	6.48
4	0.275	6.98	0.370	9.40
0	0.145	10.54	0.550	13.97

Durability

100 cycles of mating / unmating operations to MIL-DTL-5015, 3.16

Salt Spray

MIL-STD-1344 Method 1001 Condition B, minimum (Cadmium) 48 hours

Heat

+257°F (+125°C) for 60 hours, +185°F (+85°C) for 1000 hours per MIL-DTL-5015, 4.6.14

Chemical Resistance

20 hour full immersion unmated in hydraulic fluid and lubricating oil per MIL-DTL-5015

Vibration

10 to 2000Hz (10G units) 10 microseconds maximum discontinuity to MIL-STD-1344 Method 2005, condition II per MIL-DTL-5015

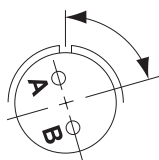
Shock

50G units 11 millisecond duration, three major axes. 10 microseconds maximum discontinuity to MIL-DTL-5015 per MIL-STD-1344 Method 2004, condition A

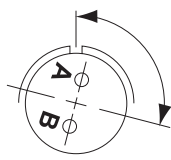
Contact Retention &
Separation Forces

Contact Size	Axial Load		Separation Force Min.	
	Newtons	Lbs.	Newtons	Lbs.
16	44	10	1	0.25
12	67	15	2	0.50
8	89	20	3	0.75
4	89	20	4	1.00
0	111	25	9	2.00

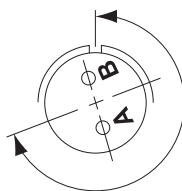
Insert Arrangement & Alternate Positioning



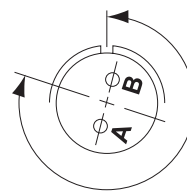
Position W



Position X



Position Y



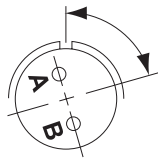
Position Z

View looking into front face of pin insert or rear of socket insert.

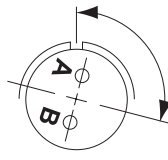
Insert Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position Degrees			
			0	4	8	12	16	W	X	Y	X
10SL-3	A	3					3	-	-	-	-
10SL-4	A	2					2	-	-	-	-
12S-3	A	2					2	70	145	215	290
12S-4	D	1					1	-	-	-	-
14S-1	A	3					3	-	-	-	-
14S-2	Inst.	4					4	-	120	240	-
14S-4	D	1					1	-	-	-	-
14S-5	Inst.	5					5	-	110	-	-
14S-6	Inst.	6					6	-	-	-	-
14S-7	A	3					3	90	180	270	-
14S-9	A	2					2	70	145	215	290
16S-1	A	7					7	80	-	-	280
16S-3	B	1					1	-	-	-	-
16S-4	D	2					2	35	110	250	325
16S-5	A	3					3	70	145	215	290
16S-6	A	3					3	90	180	270	-
16S-8	A	5					5	-	170	265	-
16-2	E	1				1		-	-	-	-
16-7	A	3			1		2	80	110	250	280
16-9	A	4				2	2	35	110	250	325
16-10	A	3				3		90	180	270	-
16-11	A	2				2		35	110	250	325
16-12	A	1		1				-	-	-	-
16-13	A	2				2		35	110	250	325
18-1	A/Inst.	10					10	70	145	215	290
18-3	D	2				2		35	110	250	325
18-4	D	4					4	35	110	250	325
18-5	D	3				2	1	80	110	250	280
18-6	D	1		1				-	-	-	-
18-7	B	1			1			-	-	-	-
18-8	A	8				1	7	70	-	-	290
18-9	Inst.	7				2	5	80	110	250	280
18-10	A	4				4		-	120	240	-
18-11	A	5				5		-	170	265	-
18-12	A	6					6	80	-	-	280
18-13	A	4			1	3		80	110	250	280
18-14	A	2		1			1	80	110	250	280
18-15	A	4				4	-	-	120	240	-
18-16	C	1				1		-	-	-	-

Insert Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position Degrees			
			0	4	8	12	16	W	X	Y	X
18-20	A	5					5	90	180	270	-
18-22	D	3					3	70	145	215	290
18-29	A	5					5	90	180	270	-
20-3	D	3				3		70	145	215	290
20-4	D	4				4		45	110	250	-
20-6	D	3					3	70	145	215	290
20-7	D/A	8					8	80	110	250	280
20-8	Inst.	6			2		4	80	110	250	280
20-9	D/A	8				1	7	80	110	250	280
20-11	Inst.	13					13	-	-	-	-
20-12	A	2		1			1	80	110	250	280
20-14	A	5			2	3		80	110	250	280
20-15	A	7				7		80	-	-	280
20-16	A	9				2	7	80	110	250	280
20-17	A	6				5	1	90	180	270	-
20-18	A	9				3	6	35	110	250	325
20-19	A	3			3			90	180	270	-
20-20	A	4		1		3		80	110	250	280
20-21	A	9				1	8	35	110	250	325
20-22	A	6			3		3	80	110	250	280
20-23	A	2			2			35	110	250	325
20-24	A	4			2		2	35	110	250	325
20-27	A	14					14	35	110	250	325
20-29	A	17					17	80	-	-	280
20-33	A	11					11	-	-	-	-
22-1	D	2			2			35	110	250	325
22-2	D	3			3			70	145	215	290
22-4	A	4			2	2		35	110	250	325
22-5	D	6				2	4	35	110	250	325
22-6	D	3			2		1	80	110	250	280
22-7	E	1	1					-	-	-	-
22-8	E	2				2		35	110	250	325
22-9	E	3				3		70	145	215	290
22-10	E	4					4	35	110	250	325
22-11	B	2					2	35	110	250	325
22-12	D	5			2		3	80	110	250	280
22-13	D/A	5				4	1	35	110	250	325
22-14	A	19					19	80	110	250	280
22-15	E/A	6				5	1	80	110	250	280

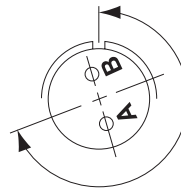
Insert Arrangement & Alternate Positioning



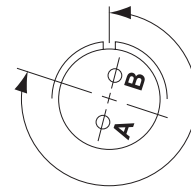
Position W



Position X



Position Y



Position Z

View looking into front face of pin insert or rear of socket insert.

Insert Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position Degrees			
			0	4	8	12	16	W	X	Y	X
22-16	A	9				3	6	80	110	250	280
22-17	D/A	9				1	8	80	110	250	280
22-18	A/D	8					8	80	110	250	280
22-19	A	14					14	80	110	250	280
22-20	A	9					9	35	110	250	325
22-21	A	3	1				2	80	110	250	280
22-22	A	4			4			-	110	250	-
22-23	D/A	8				8		35	-	250	-
22-24	D/A	6				2	4	80	110	250	280
22-27	D/A	9			1		8	80	-	250	280
22-28	A	7				7		80	-	-	280
22-33	A/D	7					7	80	110	250	280
22-34	D	5				3	2	80	110	250	280
22-36	D/A	8				8		90	-	270	-
24-2	D	7				7		80	-	-	280
24-3	D	7				2	5	80	110	250	280
24-5	A	16					16	80	110	250	280
24-6	D/A	8				8		80	110	250	280
24-7	A	16				2	14	80	110	250	280
24-9	A	2		2				35	110	250	325
24-10	A	7			7			80	-	-	280
24-11	A	9			3	6		35	110	250	325
24-12	A	5		2		3		80	110	250	280
24-16	D/A	7			1	3	3	80	110	250	280
24-17	D	5				2	3	80	110	250	280
24-20	D	11				2	9	80	110	250	280
24-21	D	10			1		9	80	110	250	280
24-22	D	4			4			45	110	250	-
24-27	E	7					7	80	-	-	280
24-28	Inst.	24					24	80	110	250	280
28-1	D/A	9			3	6		80	110	250	280
28-2	D	14				2	12	35	110	250	325
28-3	E	3			3			70	145	215	290
28-4	E/D	9				2	7	80	110	250	280
28-5	D	5		2		1	2	35	110	250	325
28-6	D	3		3				70	145	215	290
28-8	E/D/A	12				2	10	80	110	250	280
28-9	D	12				6	6	80	110	250	280
28-10	D/A	7		2	2	3		80	110	250	280

Insert Arrangement	Service Rating	Total Contacts	Contact Size					Alternate Position Degrees			
			0	4	8	12	16	W	X	Y	X
28-11	A	22				4	18	80	110	250	280
28-12	A	26					26	90	180	270	-
28-15	A	35					35	80	110	250	280
28-16	A	20					20	80	110	250	280
28-17	B/D/A	15					15	80	110	250	280
28-18	C/A/Inst/D	12					12	70	145	215	290
28-19	B/D/A	10				4	6	80	110	250	280
28-20	A	14				10	4	80	110	250	280
28-21	A	37					37	80	110	250	280
28-22	D	6		3			3	70	145	215	290
32-1	E/D	5	2			3		80	110	250	280
32-2	E	5		3			2	70	145	215	290
32-3	D	9	1	2		2	4	80	110	250	280
32-4	D/A	14				2	12	80	110	250	280
32-5	D	2	2					80	110	250	325
32-6	A	23		2	3	2	16	80	110	250	280
32-7	Inst./A	35				7	28	80	125	235	280
32-8	A	30				6	24	80	125	235	280
32-9	D	14		2			12	80	110	250	280
32-10	E/B/D/A	7		2	2		3	80	110	250	280
32-12	A/D	15				5	10	80	110	250	280
32-13	D	23				5	18	80	110	250	280
32-15	D	8	2			6		35	110	250	280
32-17	D	4		4				45	110	250	-
36-1	D	22				4	18	80	110	250	280
36-3	D	6	3			3		70	145	215	290
36-4	D/A	3	3					70	145	215	290
36-5	A	4	4					-	120	240	-
36-6	A	6	2	4				35	110	250	325
36-7	A	47				7	40	80	110	250	280
36-8	A	47				1	46	80	110	250	280
36-9	A	31		1	2	14	14	80	125	235	280
36-10	A	48					48	80	125	235	280
36-13	E/A	17				2	15	80	110	250	280
36-14	D	16			5	5	6	90	180	270	-
36-15	D/A	35					35	60	125	245	305
36-52	A	52					52	72	144	216	288

MIL-DTL-5015 Type

Contact Arrangement

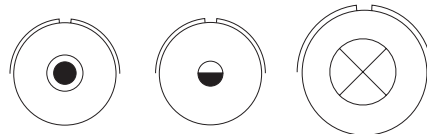
Front face of pin insert or rear face of socket insert illustrated.



1 CONTACT

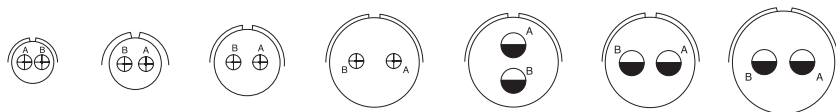


Insert Arrangement	12S-4	14S-4	16S-3	16-2	16-12	18-6
Contact Size - No. of Contacts	#16-1	#16-1	#16-1	#12-1	#4-1	#4-1
Service Rating	D	D	B	E	A	D

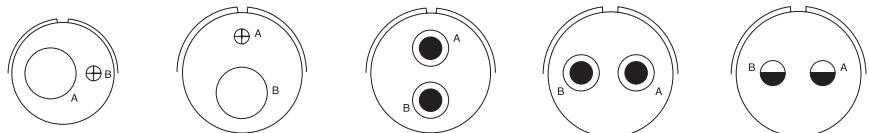


Insert Arrangement	18-7	18-16	22-7
Contact Size - No. of Contacts	#8-1	#12-1	#0-1
Service Rating	B	C	E

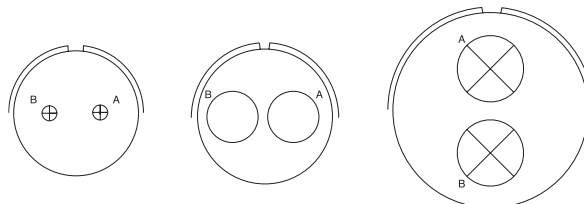
2 CONTACTS



Insert Arrangement	10SL-4	12S-3	14S-9	16S-4	16-11	16-13	18-3
Contact Size - No. of Contacts	#16-2	#16-2	#16-2	#16-2	#12-2	#12-2	#12-2
Service Rating	A	A	A	D	A	A	D



Insert Arrangement	18-14	20-12	20-23	22-1	22-8
Contact Size - No. of Contacts	#16-1, #4-1	#16-1, #4-1	#8-2	#8-2	#12-2
Service Rating	A	A	A	D	E



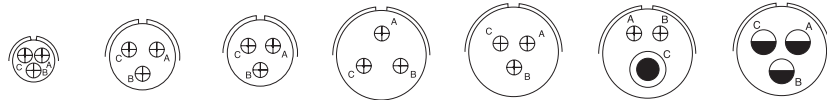
Insert Arrangement	22-11	24-9	32-5
Contact Size - No. of Contacts	#16-2	#4-2	#0-2
Service Rating	B	A	D

Contact Arrangement

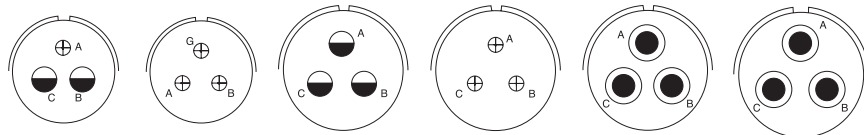
Front face of pin insert or rear face of socket insert illustrated.



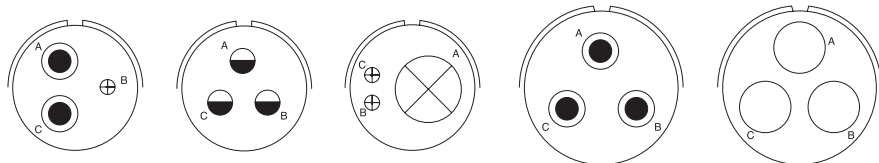
3 CONTACTS



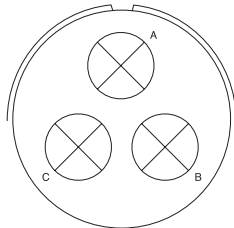
Insert Arrangement	10SL-3	14S-1	14S-7	16S-5	16S-6	16-7	16-10
Contact Size - No. of Contacts	#16-3	#16-3	#16-3	#16-3	#16-3	#16-2, #8-1	#12-3
Service Rating	A	A	A	A	A	A	A



Insert Arrangement	18-5	18-22	20-3	20-6	20-19	22-2
Contact Size - No. of Contacts	#16-1, #12-2	#16-3	#12-3	#16-3	#8-3	#8-3
Service Rating	D	D	D	D	A	D



Insert Arrangement	22-6	22-9	22-21	28-3	28-6
Contact Size - No. of Contacts	#16-1, #8-2	#12-3	#16-2, #0-1	#8-3	#4-3
Service Rating	D	E	A	E	D



Insert Arrangement	36-4
Contact Size - No. of Contacts	#0-3
Service Rating	D(A) / A(B,C)

4 CONTACTS



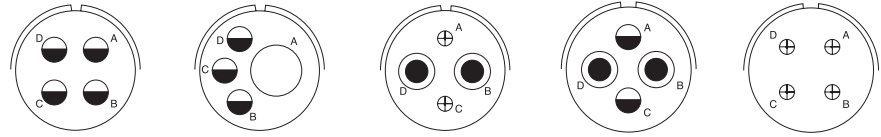
Insert Arrangement	14S-2	16-9	18-4	18-10	18-13	18-15
Contact Size - No. of Contacts	#16-4	#16-2, #12-2	#16-4	#12-4	#12-3, #8-1	#12-4
Service Rating	Inst.	A	D	A	A	A

Contact Arrangement

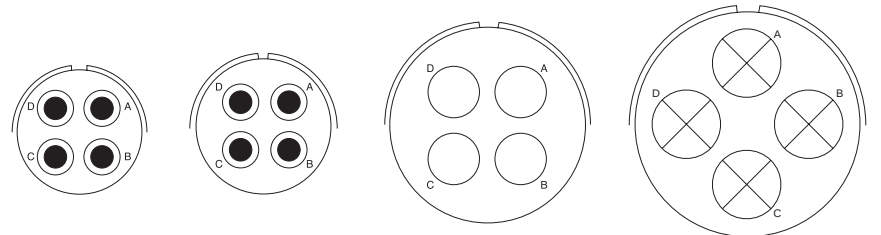
Front face of pin insert or rear face of socket insert illustrated.



4 CONTACTS

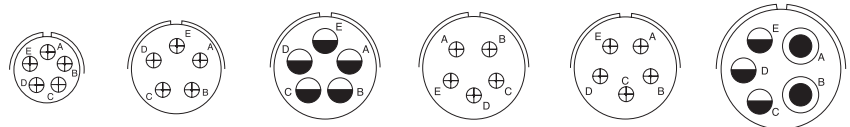


Insert Arrangement	20-4	20-20	20-24	22-4	22-10
Contact Size - No. of Contacts	#12-4	#12-3, #4-1	#16-2, #8-2	#12-2, #8-2	#16-4
Service Rating	D	A	A	A	E

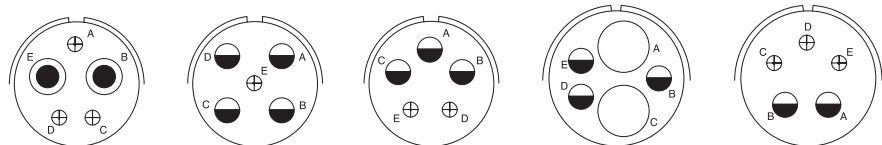


Insert Arrangement	22-22	24-22	32-17	36-5
Contact Size - No. of Contacts	#8-4	#8-4	#4-4	#0-4
Service Rating	A	D	D	A

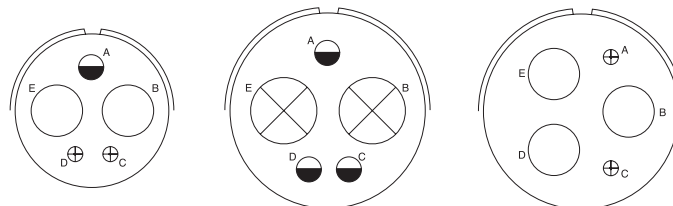
5 CONTACTS



Insert Arrangement	14S-5	16S-8	18-11	18-20	18-29	20-14
Contact Size - No. of Contacts	#16-5	#16-5	#12-5	#16-5	#16-5	#12-3, #8-2
Service Rating	Inst.	A	A	A	A	A



Insert Arrangement	22-12	22-13	22-34	24-12	24-17
Contact Size - No. of Contacts	#16-3, #8-2	#16-1, #12-4	#16-2, #12-3	#12-3, #4-2	#16-3, #12-2
Service Rating	D	D(E) / A(All others)	D	A	D



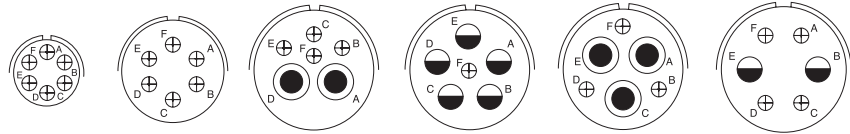
Insert Arrangement	28-5	32-1	32-2
Contact Size - No. of Contacts	#16-2, #12-1, #4-2	#12-3, #0-2	#16-2, #4-3
Service Rating	D	E(A) / D(All others)	E

Contact Arrangement

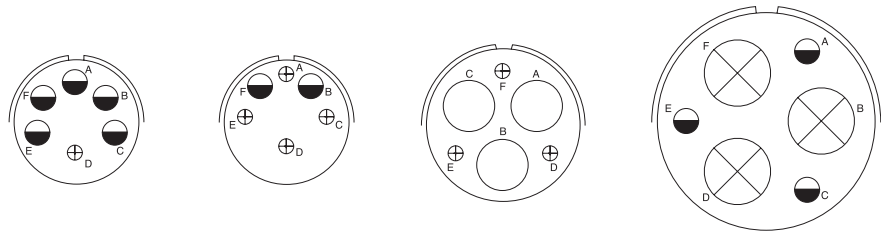
Front face of pin insert or rear face of socket insert illustrated.



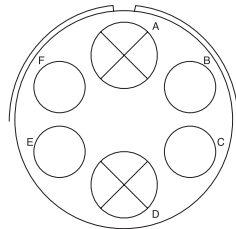
6 CONTACTS



Insert Arrangement	14S-6	18-12	20-8	20-17	20-22	22-5
Contact Size - No. of Contacts	#16-6	#16-6	#16-4, #8-2	#16-1, #12-5	#16-3, #8-3	#16-4, #12-2
Service Rating	Inst.	A	Inst.	A	A	D

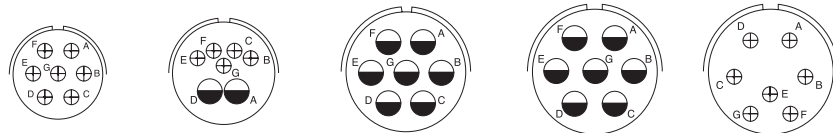


Insert Arrangement	22-15	22-24	28-22	36-3
Contact Size - No. of Contacts	#16-1, #12-5	#16-4, #12-2	#16-3, #4-3	#12-3, #0-3
Service Rating	E(D) / A(All others)	D(C, D, E) / A(All others)	D	D

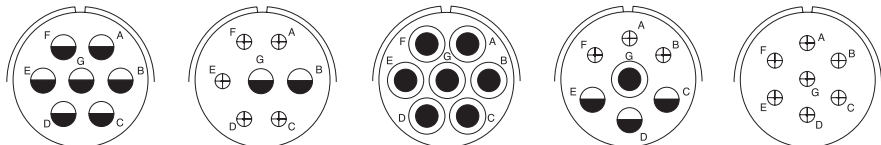


Insert Arrangement	36-6
Contact Size - No. of Contacts	#4-4, #0-2
Service Rating	A

7 CONTACTS



Insert Arrangement	16S-1	18-9	20-15	22-28	22-33
Contact Size - No. of Contacts	#16-7	#16-5, #12-2	#12-7	#12-7	#16-7
Service Rating	A	Inst	A	A	A(E, F, G) / D(All others)

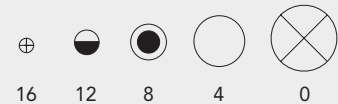


Insert Arrangement	24-2	24-3	24-10	24-16	24-27
Contact Size - No. of Contacts	#12-7	#16-5, #12-2	#8-7	#16-3, #12-3, #8-1	#16-7
Service Rating	D	D	A	D(A, B, F, G) / A(All others)	E

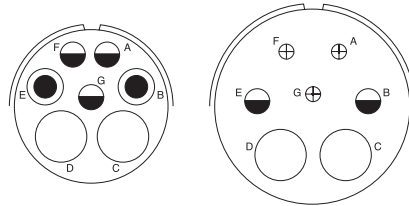
MIL-DTL-5015 Type

Contact Arrangement

Front face of pin insert or rear face of socket insert illustrated.

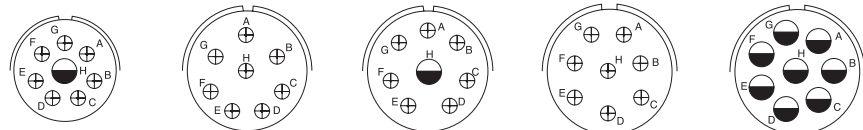


7 CONTACTS

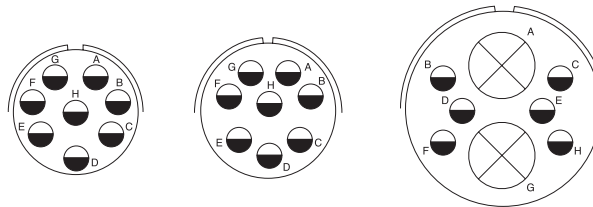


Insert Arrangement	28-10	32-10
Contact Size - No. of Contacts	#12-3, #8-2, #4-2	#16-3, #8-2, #4-2
Service Rating	D(G) / A(Bal.)	E(A, F) / B(G) / D(B, E) / A(C, D)

8 CONTACTS

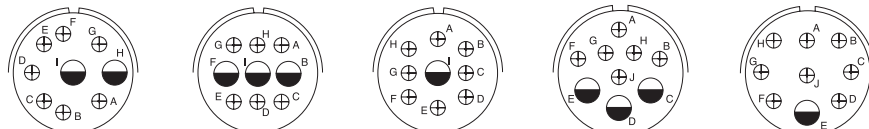


Insert Arrangement	18-8	20-7	20-9	22-18	22-23
Contact Size - No. of Contacts	#16-7, #12-1	#16-8	#16-7, #12-1	#16-8	#12-8
Service Rating	A	D(A, B, H, G) / A(All others)	D(H) / A(All others)	A(C, D, E) / D(All others)	D(H) / A(All others)

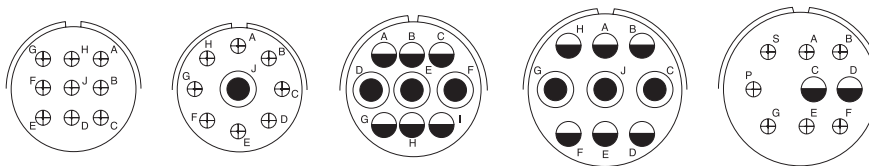


Insert Arrangement	22-36	24-6	32-15
Contact Size - No. of Contacts	#12-8	#12-8	#16-6, #0-2
Service Rating	D(H) / A(All others)	D(A, G, H) / A(All others)	D

9 CONTACTS



Insert Arrangement	20-16	20-18	20-21	22-16	22-17
Contact Size - No. of Contacts	#16-7, #12-2	#16-6, #12-3	#16-8, #12-1	#16-6, #12-3	#16-8, #12-1
Service Rating	A	A	A	A	D(A) / A(All others)



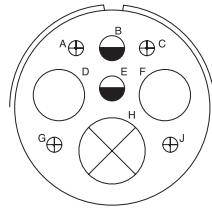
Insert Arrangement	22-20	22-27	24-11	28-1	28-4
Contact Size - No. of Contacts	#16-9	#16-8, #8-1	#12-6, #8-3	#12-6, #8-3	#16-7, #12-2
Service Rating	A	D(J) / A(All others)	A	D(A, J, E) / A(Bal.)	E(G, P, S) / D(Bal.)

Contact Arrangement

Front face of pin insert or rear face of socket insert illustrated.

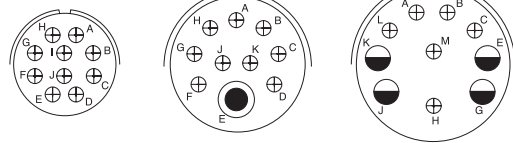


9 CONTACTS



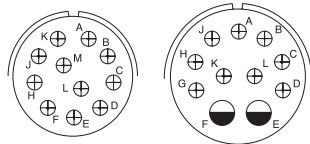
Insert Arrangement	32-3
Contact Size - No. of Contacts	#16-4, #12-2, #4-2, #0-1
Service Rating	D

10 CONTACTS



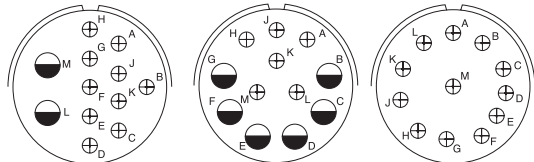
18-1	24-21	28-19
#16-10	#16-9, #8-1	#16-6, #12-4
A(B, C, F, G) / Inst.(All others)	D	B(H, M) / D(A, B) / A(All others.)

11 CONTACTS



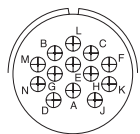
Insert Arrangement	20-33	24-20
Contact Size - No. of Contacts	#16-11	#16-9, #12-2
Service Rating	A	D

12 CONTACTS



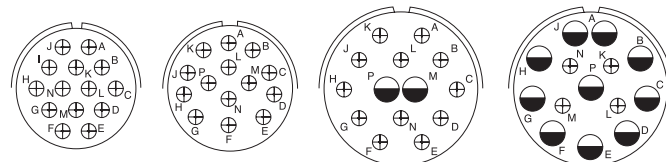
28-8	28-9	28-18
#16-10, #12-2	#16-6, #12-6	#16-12
E(L, M) / D(B) / A(All others)	D	C(M) / A(A, B) Inst.(C, D, E, F) / D(All others)

13 CONTACTS

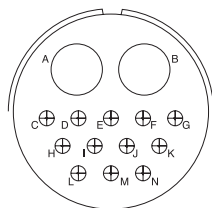
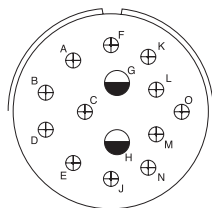


Insert Arrangement	20-11
Contact Size - No. of Contacts	#16-13
Service Rating	Inst.

14 CONTACTS



20-27	22-19	28-2	28-20
#16-14	#16-14	#16-12, #12-2	#16-4, #12-10
A	A	D	A



Insert Arrangement	32-4	32-9
Contact Size - No. of Contacts	#16-12, #12-2	#16-12, #4-2
Service Rating	A(F, J, K, N) / D(Bal.)	D

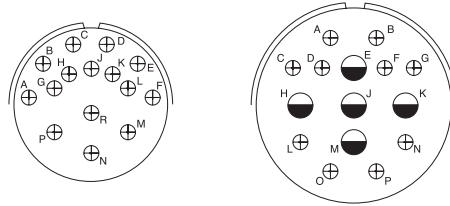
MIL-DTL-5015 Type

Contact Arrangement

Front face of pin insert or rear face of socket insert illustrated.

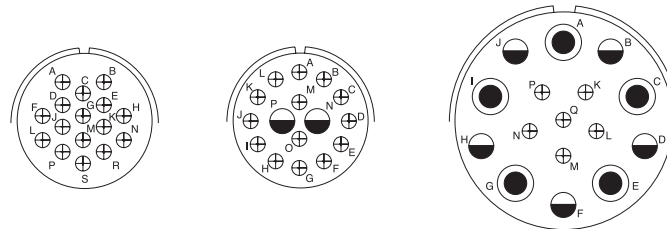


15 CONTACTS



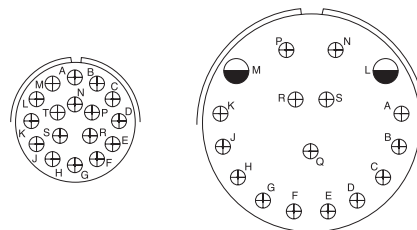
Insert Arrangement	28-17	32-12
Contact Size - No. of Contacts	#16-15	#16-10, #12-5
Service Rating	B(R) / D(M, N, P) / A(All others)	A(C, D, E, F, G) / D(Bal.)

16 CONTACTS



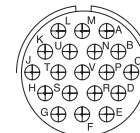
Insert Arrangement	24-5	24-7	36-14
Contact Size - No. of Contacts	#16-16	#16-14, #12-2	#16-6, #12-5, #8-5
Service Rating	A	A	D

17 CONTACTS



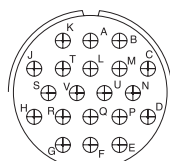
Insert Arrangement	20-29	36-13
Contact Size - No. of Contacts	#16-17	#16-15, #12-2
Service Rating	A	E(N, P, Q) / A(All others.)

19 CONTACTS



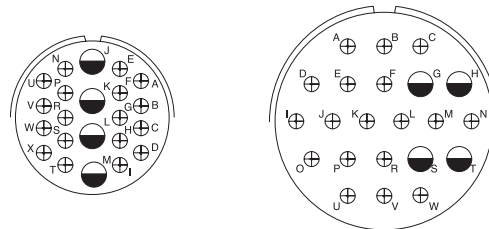
Insert Arrangement	22-14
Contact Size - No. of Contacts	#16-19
Service Rating	A

20 CONTACTS



Insert Arrangement	28-16
Contact Size - No. of Contacts	#16-20
Service Rating	A

22 CONTACTS



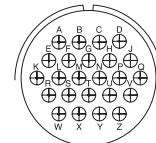
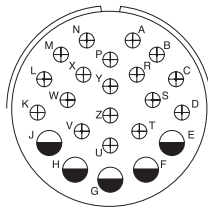
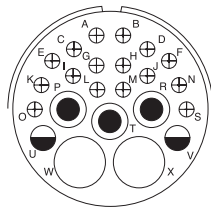
Insert Arrangement	28-11	36-1
Contact Size - No. of Contacts	#16-18, #12-4	#16-18, #12-4
Service Rating	A	D

Contact Arrangement

Front face of pin insert or rear face of socket insert illustrated.



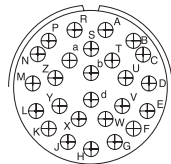
23 CONTACTS



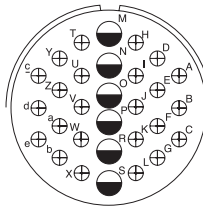
Insert Arrangement	32-6	32-13
Contact Size - No. of Contacts	#16-16, #12-2, #8-3, #4-2	#16-18, #12-5
Service Rating	A	D

24 CONTACTS

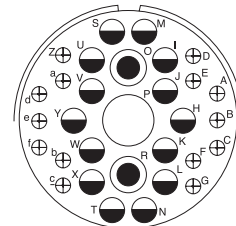
26 CONTACTS



30 CONTACTS



31 CONTACTS

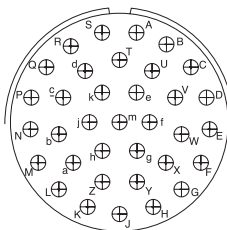
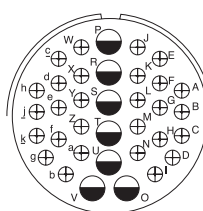
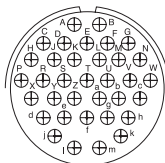


Insert Arrangement	28-12
Contact Size - No. of Contacts	#16-26
Service Rating	A

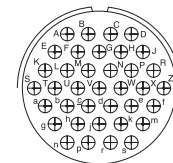
Insert Arrangement	32-8
Contact Size - No. of Contacts	#16-24, #12-6
Service Rating	A

Insert Arrangement	36-9
Contact Size - No. of Contacts	#16-14, #12-14, #8-2, #4-1
Service Rating	A

35 CONTACTS



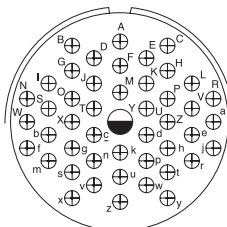
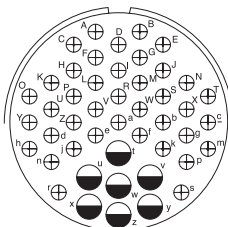
37 CONTACTS



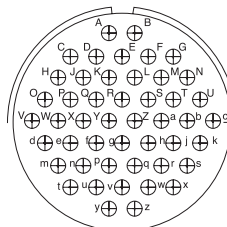
Insert Arrangement	28-15	32-7	36-15
Contact Size - No. of Contacts	#16-35	#16-28, #12-7	#16-35
Service Rating	A	Inst.(A, B, h, j) / A(All others)	D(M) / A(All others)

Insert Arrangement	28-21
Contact Size - No. of Contacts	#16-37
Service Rating	A

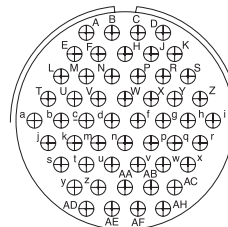
47 CONTACTS



48 CONTACTS



52 CONTACTS



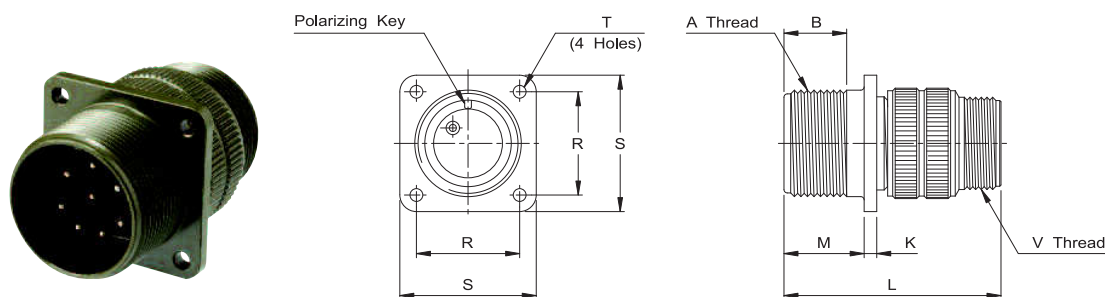
Insert Arrangement	36-7	36-8
Contact Size - No. of Contacts	#16-40, #12-7	#16-46, #12-1
Service Rating	A	A

Insert Arrangement	36-10
Contact Size - No. of Contacts	#16-48
Service Rating	A

Insert Arrangement	36-52
Contact Size - No. of Contacts	#16-52
Service Rating	A

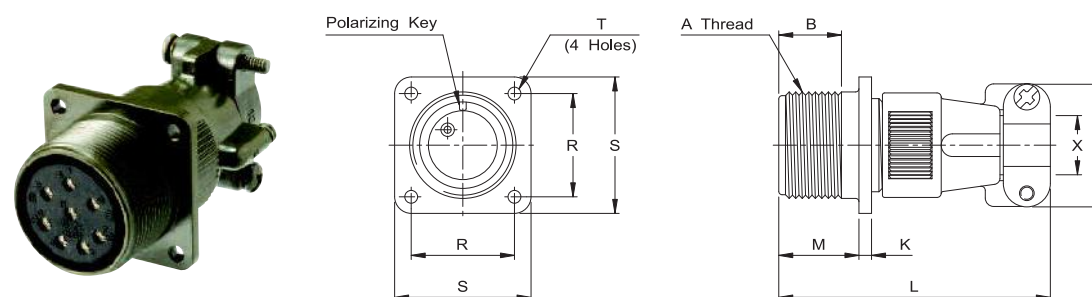
MIL-DTL-5015 Type

I/MS3100A Wall Mounting Receptacle



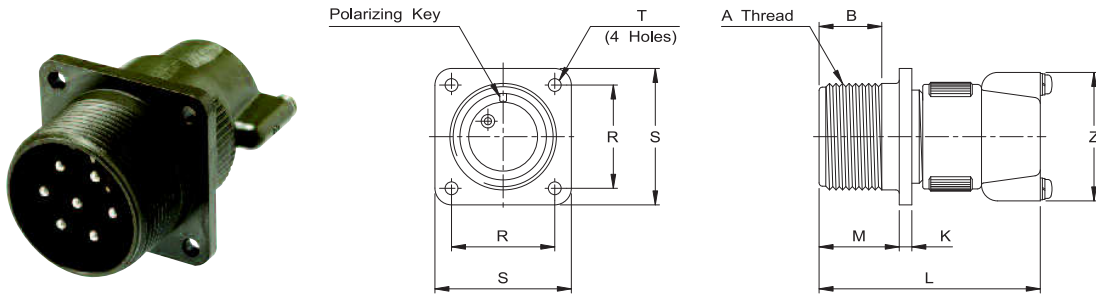
Part No.	A Thread Class 2A	B min.	K min./max.	L Ref.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	V Thread Class 2A
I/MS3100A 10SL*	5/8-24 UNEF	9.53	1.58 / 3.96	38.88	14.28	18.26	25.40	3.05	5/8-24 UNEF
I/MS3100A 12S*	3/4-20 UNEF	9.53	1.58 / 3.96	42.87	14.28	20.62	27.79	3.05	5/8-24 UNEF
I/MS3100A 14S*	7/8-20 UNEF	9.53	1.58 / 3.96	42.87	14.28	23.01	30.18	3.05	3/4-20 UNEF
I/MS3100A 16S*	1-20 UNEF	9.53	1.58 / 3.96	42.87	14.28	24.61	32.54	3.05	7/8-20 UNEF
I/MS3100A 16*	1-20 UNEF	15.88	1.58 / 3.96	52.37	19.05	24.61	32.54	3.05	7/8-20 UNEF
I/MS3100A 18*	1 1/8-18 UNEF	15.88	2.39 / 5.15	52.37	19.05	26.97	34.93	3.05	1-20 UNEF
I/MS3100A 20*	1 1/4-18 UNEF	15.88	2.39 / 5.15	55.57	19.05	29.36	38.10	3.05	1 3/16-18 UNEF
I/MS3100A 22*	1 3/8-18 UNEF	15.88	2.39 / 5.15	55.57	19.05	31.75	41.28	3.05	1 3/16-18 UNEF
I/MS3100A 24*	1 1/2-18 UNEF	15.88	2.39 / 5.15	58.72	20.63	34.93	44.45	3.73	1 7/16-18 UNEF
I/MS3100A 28*	1 3/4-18 UNS	15.88	2.39 / 5.15	58.72	20.63	39.67	50.80	3.73	1 7/16-18 UNEF
I/MS3100A 32*	2-18 UNS	15.88	3.18 / 9.11	61.92	22.23	44.45	57.15	4.39	1 3/4-18 UNS
I/MS3100A 36*	2 1/4-16 UN	15.88	3.18 / 9.11	61.92	22.23	49.23	63.50	4.39	2-18 UNS

I/MS3100E or F Wall Mounting Receptacle



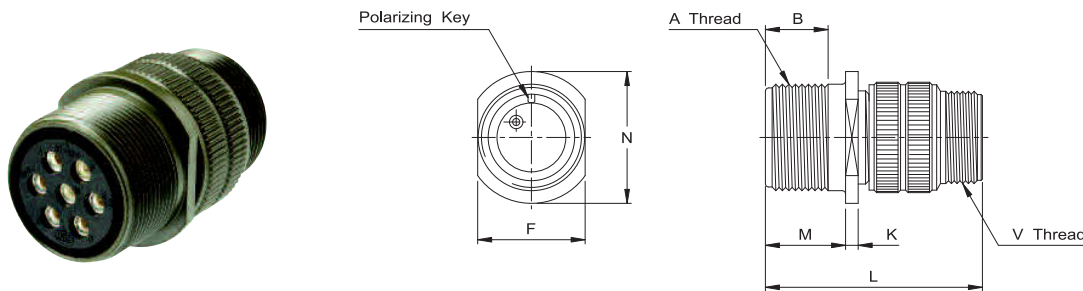
Part No.	A Thread Class 2A	B min.	K min./max.	L Ref.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	X min. Cable- range	Z max.
I/MS3100E/F 10SL*	5/8-24 UNEF	9.53	1.98 / 3.96	57.15	14.28	18.26	25.40	3.05	7.14	28.57
I/MS3100E/F 12S*	3/4-20 UNEF	9.53	1.98 / 3.96	57.15	14.28	20.62	27.79	3.05	7.14	28.57
I/MS3100E/F 14S*	7/8-20 UNEF	9.53	1.98 / 3.96	57.15	14.28	23.01	30.18	3.05	10.32	34.11
I/MS3100E/F 16S*	1-20 UNEF	9.53	1.98 / 3.96	57.15	14.28	24.61	32.54	3.05	12.70	37.69
I/MS3100E/F 16*	1-20 UNEF	15.88	1.98 / 3.96	66.67	19.05	24.61	32.54	3.05	12.70	37.69
I/MS3100E/F 18*	1 1/8-18 UNEF	15.88	2.39 / 5.15	68.27	19.05	26.97	34.93	3.05	13.49	40.86
I/MS3100E/F 20*	1 1/4-18 UNEF	15.88	2.39 / 5.15	69.85	19.05	29.36	38.10	3.05	16.67	48.00
I/MS3100E/F 22*	1 3/8-18 UNEF	15.88	2.39 / 5.15	69.85	19.05	31.75	41.28	3.05	18.80	48.00
I/MS3100E/F 24*	1 1/2-18 UNEF	15.88	2.39 / 5.15	75.41	20.63	34.93	44.45	3.73	19.84	55.11
I/MS3100E/F 28*	1 3/4-18 UNS	15.88	2.39 / 5.15	76.98	20.63	39.67	50.80	3.73	23.42	55.11
I/MS3100E/F 32*	2-18 UNS	15.88	3.18 / 9.11	76.98	22.23	44.45	57.15	4.39	29.36	67.46
I/MS3100E/F 36*	2 1/4-16 UN	15.88	3.18 / 9.11	83.33	22.23	49.23	63.50	4.39	31.75	74.21

I/MS3100R Wall Mounting Receptacle



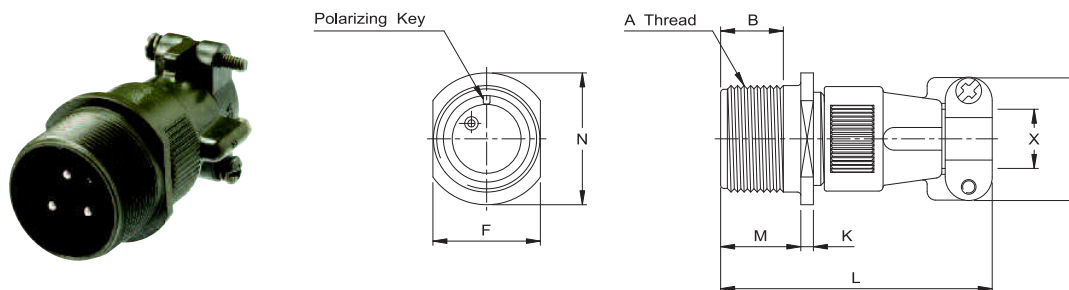
Part No.	A Thread Class 2A	B min.	K min./max.	L Ref.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	Z max.
I/MS3100R 10SL*	5/8-24 UNEF	9.53	1.98 / 3.96	46.68	14.28	18.26	25.40	3.05	28.57
I/MS3100R 12S*	3/4-20 UNEF	9.53	1.98 / 3.96	46.68	14.28	20.62	27.79	3.05	28.57
I/MS3100R 14S*	7/8-20 UNEF	9.53	1.98 / 3.96	46.68	14.28	23.01	30.18	3.05	34.11
I/MS3100R 16S*	1-20 UNEF	9.53	1.98 / 3.96	46.68	14.28	24.61	32.54	3.05	37.69
I/MS3100R 16*	1-20 UNEF	15.88	1.98 / 3.96	55.39	19.05	24.61	32.54	3.05	37.69
I/MS3100R 18*	1 1/8-18 UNEF	15.88	2.39 / 5.15	57.93	19.05	26.97	34.93	3.05	40.86
I/MS3100R 20*	1 1/4-18 UNEF	15.88	2.39 / 5.15	57.93	19.05	29.36	38.10	3.05	48.00
I/MS3100R 22*	1 3/8-18 UNEF	15.88	2.39 / 5.15	57.93	19.05	31.75	41.28	3.05	48.00
I/MS3100R 24*	1 1/2-18 UNEF	15.88	2.39 / 5.15	57.93	20.63	34.93	44.45	3.73	55.11
I/MS3100R 28*	1 3/4-18 UNS	15.88	2.39 / 5.15	57.93	20.63	39.67	50.80	3.73	55.11
I/MS3100R 32*	2-18 UNS	15.88	3.18 / 9.11	58.97	22.23	44.45	57.15	4.39	67.46
I/MS3100R 36*	2 1/4-16 UN	15.88	3.18 / 9.11	58.97	22.23	49.23	63.50	4.39	74.21

I/MS3101A In-Line Receptacle



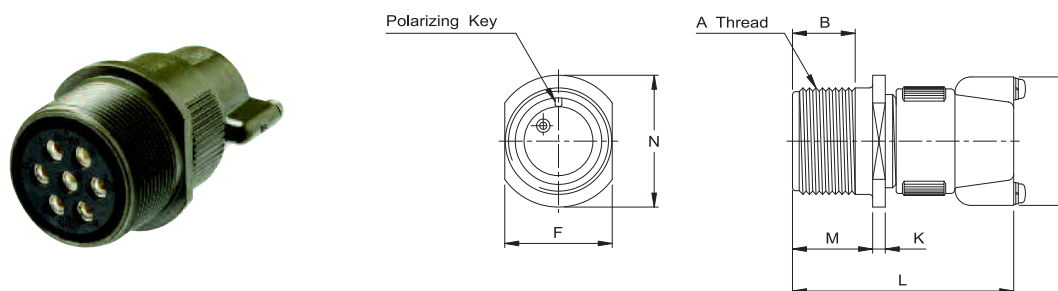
Part No.	A Thread Class 2A	B min.	F Ref.	K min./max.	L Ref.	M +0.79 -0.00	N dia. max.	V Thread Class 2A
I/MS3101A 10SL*	5/8-24 UNEF	9.53	16.66	1.58 / 3.96	38.88	14.28	24.61	5/8-24 UNEF
I/MS3101A 12S*	3/4-20 UNEF	9.53	19.43	1.58 / 3.96	42.87	14.28	26.97	5/8-24 UNEF
I/MS3101A 14S*	7/8-20 UNEF	9.53	22.61	1.58 / 3.96	42.87	14.28	29.36	3/4-20 UNEF
I/MS3101A 16S*	1-20 UNEF	9.53	25.78	1.58 / 3.96	42.87	14.28	31.75	7/8-20 UNEF
I/MS3101A 16*	1-20 UNEF	15.88	25.78	1.58 / 3.96	52.37	19.05	31.75	7/8-20 UNEF
I/MS3101A 18*	1 1/8-18 UNEF	15.88	28.96	2.39 / 5.15	52.37	19.05	34.13	1-20 UNEF
I/MS3101A 20*	1 1/4-18 UNEF	15.88	32.13	2.39 / 5.15	55.57	19.05	37.31	1 3/16-18 UNEF
I/MS3101A 22*	1 3/8-18 UNEF	15.88	35.31	2.39 / 5.15	55.57	19.05	40.48	1 3/16-18 UNEF
I/MS3101A 24*	1 1/2-18 UNEF	15.88	38.48	2.39 / 5.15	58.72	20.63	43.66	1 7/16-18 UNEF
I/MS3101A 28*	1 3/4-18 UNS	15.88	44.83	2.39 / 5.15	58.72	20.63	50.01	1 7/16-18 UNEF
I/MS3101A 32*	2-18 UNS	15.88	51.18	3.18 / 9.11	61.92	22.23	56.36	1 3/4-18 UNS
I/MS3101A 36*	2 1/4-16 UN	15.88	57.66	3.18 / 9.11	61.92	22.23	62.71	2-18 UNS

I/MS3101E or F In-Line Receptacle



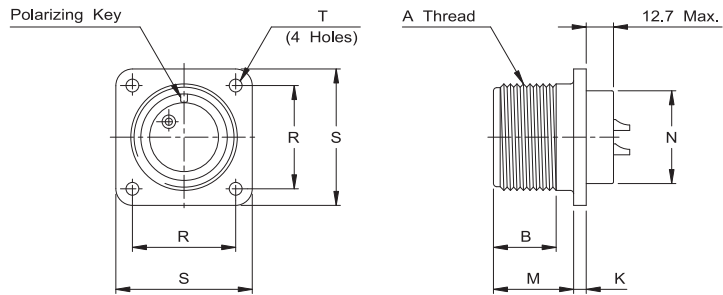
Part No.	A Thread Class 2A	B min.	F Ref.	K min./max.	L Ref.	M +0.79 -0.00	N dia. max.	X min. Cable- range	Z max.
I/MS3101E/F 10SL-*	5/8-24 UNEF	9.53	16.66	1.98 / 3.96	57.15	14.28	24.61	7.14	28.57
I/MS3101E/F 12S-*	3/4-20 UNEF	9.53	19.43	1.98 / 3.96	57.15	14.28	26.97	7.14	28.57
I/MS3101E/F 14S-*	7/8-20 UNEF	9.53	22.61	1.98 / 3.96	57.15	14.28	29.36	10.32	34.11
I/MS3101E/F 16S-*	1-20 UNEF	9.53	25.78	1.98 / 3.96	57.15	14.28	31.75	12.70	37.69
I/MS3101E/F 16-*	1-20 UNEF	15.88	25.78	1.98 / 3.96	66.67	19.05	31.75	12.70	37.69
I/MS3101E/F 18-*	1 1/8-18 UNEF	15.88	28.96	2.39 / 5.15	68.27	19.05	34.13	13.49	40.86
I/MS3101E/F 20-*	1 1/4-18 UNEF	15.88	32.13	2.39 / 5.15	69.85	19.05	37.31	16.67	48.00
I/MS3101E/F 22-*	1 3/8-18 UNEF	15.88	35.31	2.39 / 5.15	75.41	19.05	40.48	18.80	48.00
I/MS3101E/F 24-*	1 1/2-18 UNEF	15.88	38.48	2.39 / 5.15	75.41	20.63	43.66	19.84	55.11
I/MS3101E/F 28-*	1 3/4-18 UNS	15.88	44.83	2.39 / 5.15	76.98	20.63	50.01	23.42	55.11
I/MS3101E/F 32-*	2-18 UNS	15.88	51.18	3.18 / 9.11	76.98	22.23	56.36	29.36	67.46
I/MS3101E/F 36-*	2 1/4-16 UN	15.88	57.66	3.18 / 9.11	83.33	22.23	62.71	31.75	74.21

I/MS3101R In-Line Receptacle



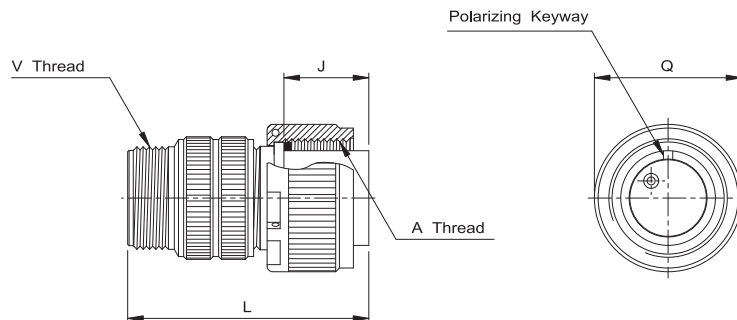
Part No.	A Thread Class 2A	B min.	F Ref.	K min./max.	L Ref.	M +0.79 -0.00	N dia. max.	Z max.
I/MS3101R 10SL-*	5/8-24 UNEF	9.53	16.66	1.98 / 3.96	46.68	14.28	24.61	28.57
I/MS3101R 12S-*	3/4-20 UNEF	9.53	19.43	1.98 / 3.96	46.68	14.28	26.97	28.57
I/MS3101R 14S-*	7/8-20 UNEF	9.53	22.61	1.98 / 3.96	46.68	14.28	29.36	34.11
I/MS3101R 16S-*	1-20 UNEF	9.53	25.78	1.98 / 3.96	46.68	14.28	31.75	37.69
I/MS3101R 16-*	1-20 UNEF	15.88	25.78	1.98 / 3.96	55.39	19.05	31.75	37.69
I/MS3101R 18-*	1 1/8-18 UNEF	15.88	28.96	2.39 / 5.15	57.93	19.05	34.13	40.86
I/MS3101R 20-*	1 1/4-18 UNEF	15.88	32.13	2.39 / 5.15	57.93	19.05	37.31	48.00
I/MS3101R 22-*	1 3/8-18 UNEF	15.88	35.31	2.39 / 5.15	57.93	19.05	40.48	48.00
I/MS3101R 24-*	1 1/2-18 UNEF	15.88	38.48	2.39 / 5.15	57.93	20.63	43.66	55.11
I/MS3101R 28-*	1 3/4-18 UNS	15.88	44.83	2.39 / 5.15	57.93	20.63	50.01	55.11
I/MS3101R 32-*	2-18 UNS	15.88	51.18	3.18 / 9.11	58.97	22.23	56.36	67.46
I/MS3101R 36-*	2 1/4-16 UN	15.88	57.66	3.18 / 9.11	58.97	22.23	62.71	74.21

I/MS3102A or E Box Mounting Receptacle



Part No.	A Thread Class 2A	B min.	K min./max.	M +0.79 -0.00	N dia. +0.00 -4.78	R ±0.12	S ±0.79	T dia +0.25 -0.12
I/MS3102A/E 10SL-*	5/8-24 UNEF	9.53	1.58 / 3.96	14.28	19.86	18.26	25.40	3.05
I/MS3102A/E 12S-*	3/4-20 UNEF	9.53	1.58 / 3.96	14.28	19.86	20.62	27.79	3.05
I/MS3102A/E 14S-*	7/8-20 UNEF	9.53	1.58 / 3.96	14.28	23.01	23.01	30.18	3.05
I/MS3102A/E 16S-*	1-20 UNEF	9.53	1.58 / 3.96	14.28	26.21	24.61	32.54	3.05
I/MS3102A/E 16-*	1-20 UNEF	15.88	1.58 / 3.96	19.05	26.21	24.61	32.54	3.05
I/MS3102A/E 18S-*	1 1/8-18 UNEF	15.88	2.39 / 5.15	19.05	29.36	26.97	34.93	3.05
I/MS3102A/E 20S-*	1 1/4-18 UNEF	15.88	2.39 / 5.15	19.05	32.56	29.36	38.10	3.05
I/MS3102A/E 22S-*	1 3/8-18 UNEF	15.88	2.39 / 5.15	19.05	35.71	31.75	41.28	3.05
I/MS3102A/E 24S-*	1 1/2-18 UNEF	15.88	2.39 / 5.15	20.63	38.91	34.93	44.45	3.73
I/MS3102A/E 28S-*	1 3/4-18 UNS	15.88	2.39 / 5.15	20.63	45.26	39.67	50.80	3.73
I/MS3102A/E 32S-*	2-18 UNS	15.88	3.18 / 9.11	22.23	51.61	44.45	57.15	4.39
I/MS3102A/E 36S-*	2 1/4-16 UN	15.88	3.18 / 9.11	22.23	57.96	49.23	63.50	4.39

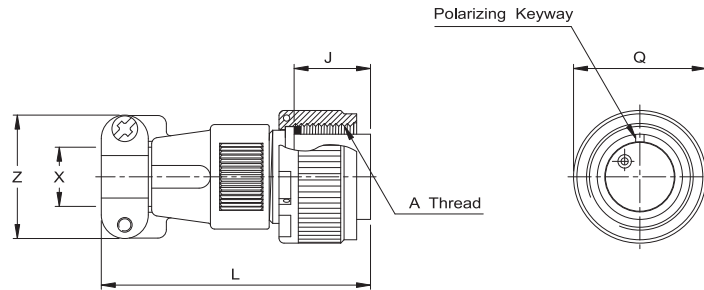
I/MS3106A Straight Plug



Part No.	A Thread Class 2B	J ±0.12	L Ref.	Q dia. Ref.	V Thread Class 2A
I/MS3106A 10SL-*	5/8-24 UNEF	13.49	38.88	24.61	5/8-24 UNEF
I/MS3106A 12S-*	3/4-20 UNEF	13.49	42.87	26.97	5/8-24 UNEF
I/MS3106A 14S-*	7/8-20 UNEF	13.49	42.87	29.36	3/4-20 UNEF
I/MS3106A 16S-*	1-20 UNEF	13.49	42.87	31.75	7/8-20 UNEF
I/MS3106A 16-*	1-20 UNEF	18.26	52.37	31.75	7/8-20 UNEF
I/MS3106A 18S-*	1 1/8-18 UNEF	18.26	52.37	34.13	1-20 UNEF
I/MS3106A 20S-*	1 1/4-18 UNEF	18.26	55.57	37.31	1 3/16-18 UNEF
I/MS3106A 22S-*	1 3/8-18 UNEF	18.26	55.57	40.48	1 3/16-18 UNEF
I/MS3106A 24S-*	1 1/2-18 UNEF	18.26	58.72	43.66	1 7/16-18 UNEF
I/MS3106A 28S-*	1 3/4-18 UNS	18.26	58.72	50.01	1 7/16-18 UNEF
I/MS3106A 32S-*	2-18 UNS	18.26	61.92	56.36	1 3/4-18 UNS
I/MS3106A 36S-*	2 1/4-16 UN	18.26	61.92	62.71	2-18 UNS

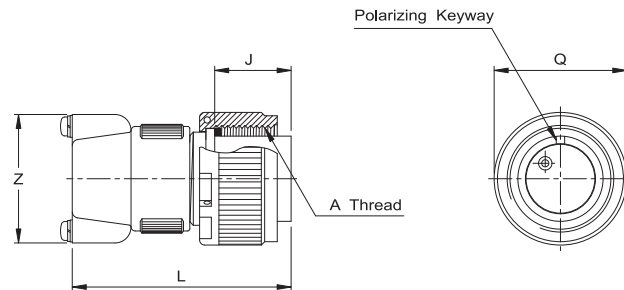
MIL-DTL-5015 Type

I/MS3106E or F Straight Plug



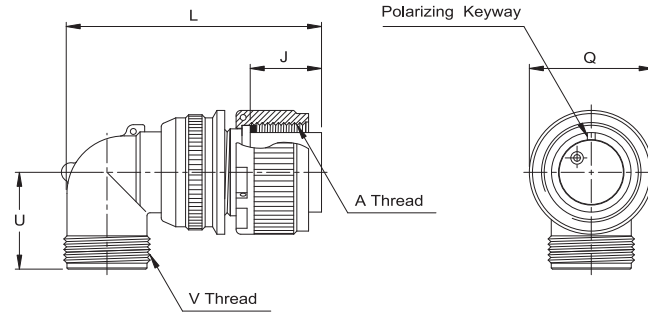
Part No.	A Thread Class 2B	J ±0.12	L Ref.	Q dia. Ref.	X min. Cable range	Z max.
I/MS3106E/F 10SL*	5/8-24 UNEF	13.49	57.15	24.61	7.14	28.57
I/MS3106E/F 12S*	3/4-20 UNEF	13.49	57.15	26.97	7.14	28.57
I/MS3106E/F 14S*	7/8-20 UNEF	13.49	57.15	29.36	10.32	34.11
I/MS3106E/F 16S*	1-20 UNEF	13.49	57.15	31.75	12.70	37.69
I/MS3106E/F 16*	1-20 UNEF	18.26	66.67	31.75	12.70	37.69
I/MS3106E/F 18*	1 1/8-18 UNEF	18.26	68.27	34.13	13.49	40.86
I/MS3106E/F 20*	1 1/4-18 UNEF	18.26	69.85	37.31	16.67	48.00
I/MS3106E/F 22*	1 3/8-18 UNEF	18.26	75.41	40.48	18.80	48.00
I/MS3106E/F 24*	1 1/2-18 UNEF	18.26	75.41	43.66	19.84	55.11
I/MS3106E/F 28*	1 3/4-18 UNS	18.26	76.98	50.01	23.42	55.11
I/MS3106E/F 32*	2-18 UNS	18.26	76.98	56.36	29.36	67.46
I/MS3106E/F 36*	2 1/4-16 UN	18.26	83.33	62.71	31.75	74.21

I/MS3106R Straight Plug



Part No.	A Thread Class 2B	J ±0.12	L Ref.	Q dia. Ref.	Z max.
I/MS3106R 10SL*	5/8-24 UNEF	13.49	46.68	24.61	28.57
I/MS3106R 12S*	3/4-20 UNEF	13.49	46.68	26.97	28.57
I/MS3106R 14S*	7/8-20 UNEF	13.49	46.68	29.36	34.11
I/MS3106R 16S*	1-20 UNEF	13.49	46.68	31.75	37.69
I/MS3106R 16*	1-20 UNEF	18.26	55.39	31.75	37.69
I/MS3106R 18*	1 1/8-18 UNEF	18.26	57.93	34.13	40.86
I/MS3106R 20*	1 1/4-18 UNEF	18.26	57.93	37.31	48.00
I/MS3106R 22*	1 3/8-18 UNEF	18.26	57.93	40.48	48.00
I/MS3106R 24*	1 1/2-18 UNEF	18.26	57.93	43.66	55.11
I/MS3106R 28*	1 3/4-18 UNS	18.26	57.93	50.01	55.11
I/MS3106R 32*	2-18 UNS	18.26	58.97	56.36	67.46
I/MS3106R 36*	2 1/4-16 UN	18.26	58.97	62.71	74.21

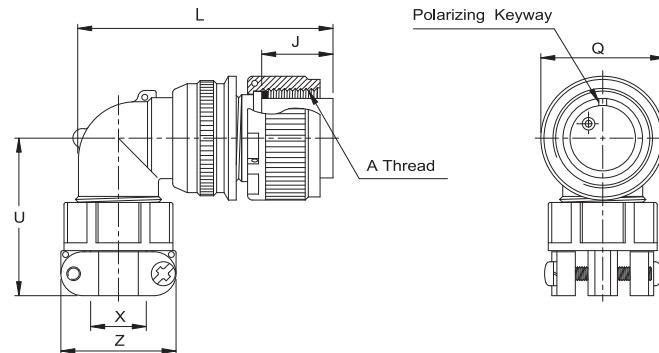
I/MS3108A or R Right Angle Plug



NOTE 1. MS3108R : with o-ring and wire grommet seal.

Part No.	A Thread Class 2B	J ±0.12	L max.	Q dia. Ref.	U max.	V Thread Class 2A
I/MS3108A 10SL*	5/8-24 UNEF	13.49	46.02	24.61	25.40	5/8-24 UNEF
I/MS3108A 12S*	3/4-20 UNEF	13.49	50.80	26.97	26.97	5/8-24 UNEF
I/MS3108A 14S*	7/8-20 UNEF	13.49	53.97	29.36	28.57	3/4-20 UNEF
I/MS3108A 16S*	1-20 UNEF	13.49	60.32	31.75	30.17	7/8-20 UNEF
I/MS3108A 16*	1-20 UNEF	18.26	65.07	31.75	30.17	7/8-20 UNEF
I/MS3108A 18*	1 1/8-18 UNEF	18.26	68.27	34.13	33.32	1-20 UNEF
I/MS3108A 20*	1 1/4-18 UNEF	18.26	76.98	37.31	34.92	1 3/16-18 UNEF
I/MS3108A 22*	1 3/8-18 UNEF	18.26	76.98	40.48	34.92	1 3/16-18 UNEF
I/MS3108A 24*	1 1/2-18 UNEF	18.26	86.51	43.66	39.67	1 7/16-18 UNEF
I/MS3108A 28*	1 3/4-18 UNS	18.26	86.51	50.01	39.67	1 7/16-18 UNEF
I/MS3108A 32*	2-18 UNS	18.26	95.25	56.36	47.62	1 3/4-18 UNS
I/MS3108A 36*	2 1/4-16 UN	18.26	100.02	62.71	52.37	2-18 UNS

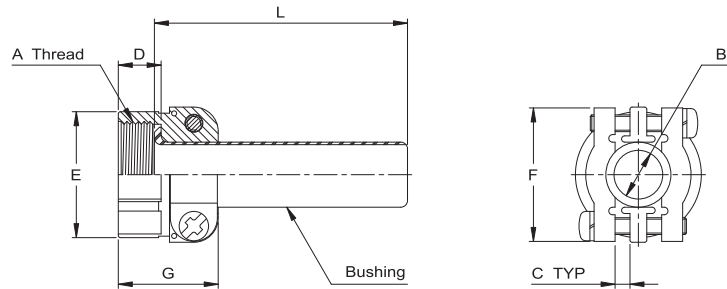
I/MS3108E or F Right Angle Plug



NOTE 1. I/MS3108E or F : with wire grommet seal 2. I/MS3108E : without O-ring, I/MS3108F : with O-ring

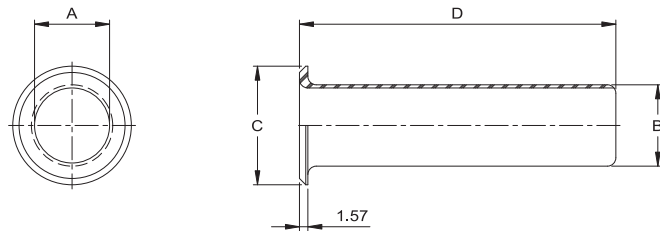
Part No.	A Thread Class 2B	J ±0.12	L max.	Q dia. Ref.	U max.	X dia (Free) max.	Z ±0.78
I/MS3108E/R 10SL*	5/8-24 UNEF	13.49	46.02	24.61	38.30	7.92	22.23
I/MS3108E/R 12S*	3/4-20 UNEF	13.49	50.80	26.97	38.30	7.92	22.23
I/MS3108E/R 14S*	7/8-20 UNEF	13.49	53.97	29.36	44.45	11.13	26.97
I/MS3108E/R 16S*	1-20 UNEF	13.49	60.32	31.75	41.48	14.27	29.36
I/MS3108E/R 16*	1-20 UNEF	18.26	65.07	31.75	41.48	14.27	29.69
I/MS3108E/R 18*	1 1/8-18 UNEF	18.26	68.27	34.13	44.68	15.88	31.75
I/MS3108E/R 20*	1 1/4-18 UNEF	18.26	76.98	37.31	49.05	19.05	37.31
I/MS3108E/R 22*	1 3/8-18 UNEF	18.26	76.98	40.48	50.62	19.05	37.31
I/MS3108E/R 24*	1 1/2-18 UNEF	18.26	86.51	43.66	53.82	23.83	42.88
I/MS3108E/R 28*	1 3/4-18 UNS	18.26	86.51	50.01	55.40	23.83	42.88
I/MS3108E/R 32*	2-18 UNS	18.26	95.25	56.36	65.28	31.75	51.59
I/MS3108E/R 36*	2 1/4-16 UN	18.26	100.02	62.71	68.45	34.93	57.94

I/MS3057-■ ■ A Cable Clamp



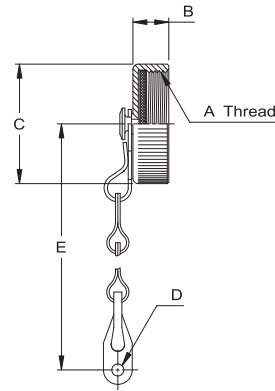
Part No.	Connector Shell Size	A Thread Class 2B	B dia. ±0.41	C TYP	D	E dia. ±0.79	F ±0.79	G ±0.79	L Ref.	Bushing Ref.
I/MS3057 - 4A	10SL, 12S & 12	5/8-24 UNEF	5.59	1.57	10.31	20.62	22.23	20.62	69.9	MS3420 - 4
I/MS3057 - 6A	14S & 14	3/4-20 UNEF	7.92	1.98	10.31	24.61	26.97	22.22	66.7	MS3420 - 6
I/MS3057 - 8A	16S & 16	7/8-20 UNEF	11.10	2.77	10.31	27.79	29.36	23.82	63.5	MS3420 - 8
I/MS3057 - 10A	18	1-20 UNEF	14.27	3.18	10.31	30.18	31.75	23.82	60.3	MS3420 - 10
I/MS3057 - 12A	20, 22	1 3/16-18 UNEF	15.88	3.96	10.31	34.93	37.31	23.82	57.2	MS3420 - 12
I/MS3057 - 16A	24, 28	1 7/16-18 UNEF	19.05	4.78	10.31	42.06	42.88	26.18	54.0	MS3420 - 16
I/MS3057 - 20A	32	1 3/4-18 UNS	23.80	6.35	11.91	51.59	51.59	27.78	50.8	MS3420 - 20
I/MS3057 - 24A	36	2-18 UNS	31.75	7.54	13.49	56.36	57.94	29.36	47.6	MS3420 - 24

I/MS3420 Telescoping Bushing



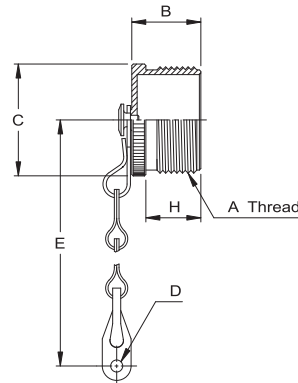
Part No.	Connector Shell Size	A dia. ±0.41	B dia. ±0.41	C dia. ±0.41	D ±0.41	Cable Clamp Ref.
I/MS3420 - 4	10SL, 12S & 12	5.59	7.67	12.83	69.85	MS3057 - 4A
I/MS3420 - 6	14S & 14	7.92	10.85	15.72	66.68	MS3057 - 6A
I/MS3420 - 8	16S & 16	11.10	14.02	18.90	63.50	MS3057 - 8A
I/MS3420 - 10	18	14.27	15.62	22.58	60.33	MS3057 - 10A
I/MS3420 - 12	20, 22	15.88	18.80	27.53	57.15	MS3057 - 12A
I/MS3420 - 16	24, 28	19.05	23.55	33.38	53.98	MS3057 - 16A
I/MS3420 - 20	32	23.80	31.50	40.59	50.80	MS3057 - 20A
I/MS3420 - 24	36	31.75	34.67	46.91	47.63	MS3057 - 24A

I/MS25043 Protective Cover for Receptacle

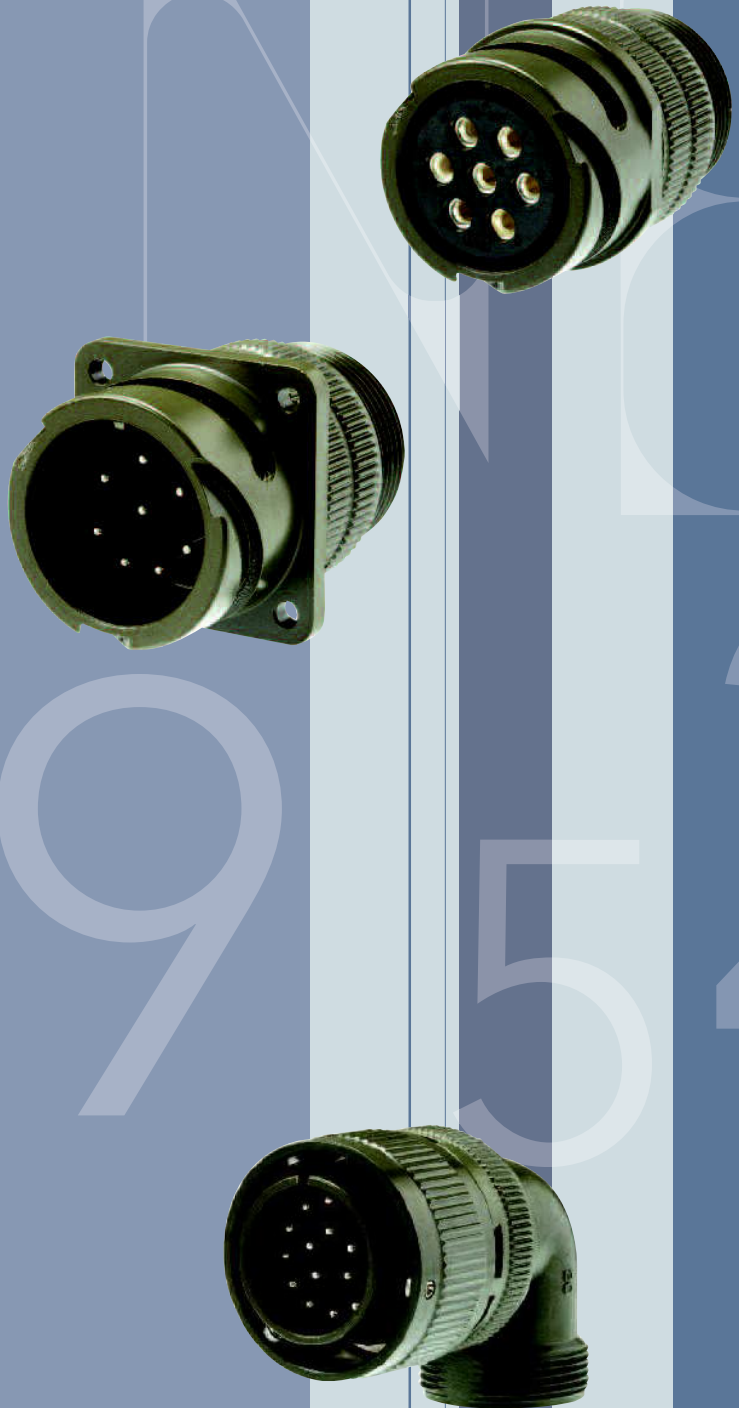


Part No.	Connector Shell Size	A Thread Class 2B	B max.	C dia. max.	D dia. +0.25 -0.13	E ±21.0
I/MS25043 - 10D	10S, 10SL	5/8-24 UNEF	11.91	20.70	3.56	101.6
I/MS25043 - 12D	12S, 12	3/4-20 UNEF	11.91	25.40	3.56	114.3
I/MS25043 - 14D	14S, 14	7/8-20 UNEF	11.91	28.58	3.56	114.3
I/MS25043 - 16D	16S, 16	1-20 UNEF	11.91	30.18	3.56	114.3
I/MS25043 - 18D	18	1 1/8-18 UNEF	11.91	34.14	3.56	114.3
I/MS25043 - 20D	20	1 1/4-18 UNEF	11.91	37.31	3.56	127.0
I/MS25043 - 22D	22	1 3/8-18 UNEF	11.91	40.49	3.56	127.0
I/MS25043 - 24D	24	1 1/2-18 UNEF	11.91	43.66	4.34	139.7
I/MS25043 - 28D	28	1 3/4-18 UNS	13.49	50.01	4.34	196.8
I/MS25043 - 32D	32	2-18 UNS	13.49	56.36	4.75	196.8
I/MS25043 - 36D	36	2 1/4-16 UN	13.49	62.71	4.75	196.8

I/MS25042 Protective Cover for Plug



Part No.	Connector Shell Size	A Thread Class 2A	B max.	C dia. max.	D dia. +0.25 -0.13	E ±21.0	H min.
I/MS25042 - 10D	10S, 10SL	5/8-24 UNEF	16.66	17.45	3.96	101.6	9.65
I/MS25042 - 12D	12S, 12	3/4-20 UNEF	21.44	20.62	3.96	114.3	16.00
I/MS25042 - 14D	14S, 14	7/8-20 UNEF	21.44	23.80	3.96	114.3	16.00
I/MS25042 - 16D	16S, 16	1-20 UNEF	21.44	26.97	3.96	114.3	16.00
I/MS25042 - 18D	18	1 1/8-18 UNEF	21.44	30.15	3.96	114.3	16.00
I/MS25042 - 20D	20	1 1/4-18 UNEF	21.44	33.32	4.75	127.0	16.00
I/MS25042 - 22D	22	1 3/8-18 UNEF	21.44	36.50	4.75	127.0	16.00
I/MS25042 - 24D	24	1 1/2-18 UNEF	21.44	39.67	4.75	139.7	16.00
I/MS25042 - 28D	28	1 3/4-18 UNS	21.44	46.02	4.75	196.8	16.00
I/MS25042 - 32D	32	2-18 UNS	21.44	52.37	5.54	196.8	16.00
I/MS25042 - 36D	36	2 1/4-16 UN	21.44	58.72	5.54	196.8	16.00



INB Series Connectors

In Accordance With VG95234



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INB Series

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Other Connector & Cable Assembly

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Ordering Information

INB	06A	18	-	10	P	Y
INC Prefix	Shell Style	Shell Size	Insert Arrangement	Contact Style	Alternate Insert Position	
INC Bayonet	00A = Wall mounting receptacle, solid endbell 01A = In-line receptacle, solid endbell 02A = Box mounting receptacle 06A = Straight plug, solid endbell 08A = Right angle plug, solid endbell	10SL, 14S, 16S, 16, 18, 20, 22, 24, 28, 32 and 36	See, MIL-STD-1651A	P = Pin S = Socket	W, X, Y, Z (Ref. : MIL-STD-1651A)	

Technical Data

[Materials & Finishes]

Shell, Endbell	Aluminum alloy / Olive drab chromate coating over cadmium or zinc plating
Insulator	Synthetic rubber
Contact	Copper alloy / Silver plating
Roller Stud, Stud Pin	Stainless steel

[Characteristics]

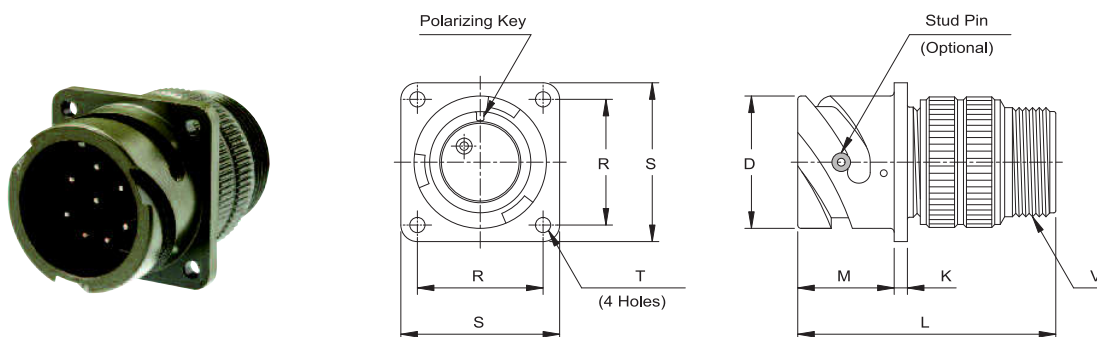
Insulator Resistance	Min. 5000 MΩ at 77°F (+25°C) per MIL-DTL-5015, 3.18
Operating Temperature	-67°F (-55°C) to +257°F (+125°C)
Durability	500 cycles of mating / unmating operations (to VG95234)
Contact Type	Solder or crimp type

Service Rating	Operating Voltage DC V	Operating Voltage AC V r.m.s.	Test Voltage AC V r.m.s.	Air Spacing Nominal (Inches)	Creepage Nominal (Inches)
Inst.	250	200	1000	-	1/16
A	700	500	2000	1/16	1/8
D	1250	900	2800	1/8	3/16
E	1750	1250	3500	3/16	1/4
B	2450	1750	4500	1/4	5/16
C	4200	3000	7000	5/16	1

Contact Size	Contact Resistance Milliohm Max.	Test Current (Amps)	Potential Drop (Millivolts)
16	16	13	49
12	3	23	42
8	1	46	26
4	0.5	80	23
0	0.2	150	21

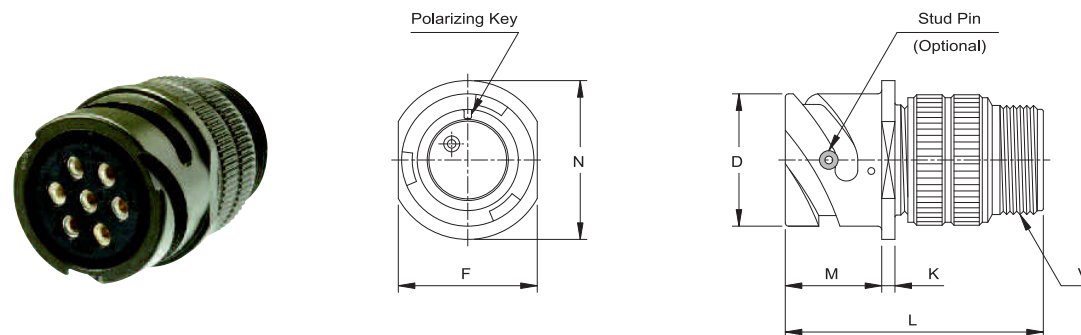
Contact Size	Axial Load		Separation Force Min.	
	Newtons	Lbs.	Newtons	Lbs.
16	44	10	1	0.25
12	67	15	2	0.50
8	89	20	3	0.75
4	89	20	4	1.00
0	111	25	9	2.00

INB00A Wall Mounting Receptacle



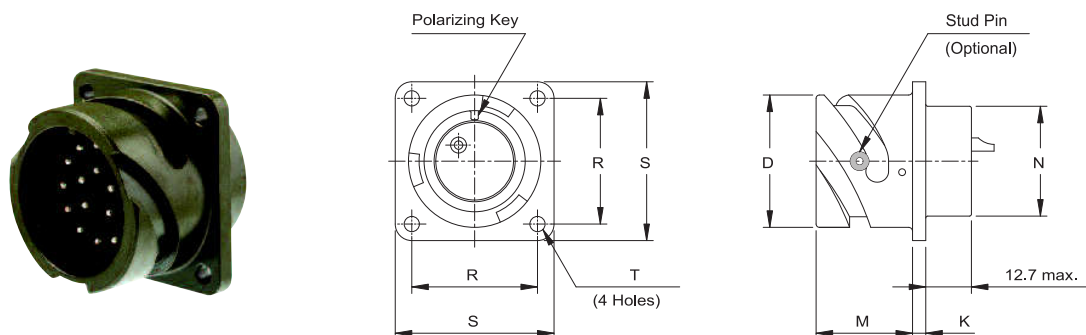
Part No.	D dia. +0.00 -0.15	K min./max.	L Ref.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	V Thread Class 2A
INB00A 10SL-*	18.20	1.58 / 3.96	38.88	14.28	18.26	25.40	3.05	5/8-24 UNEF
INB00A 14S-*	24.60	1.58 / 3.96	42.87	14.28	23.01	30.18	3.05	3/4-20 UNEF
INB00A 16S-*	27.40	1.58 / 3.96	42.87	14.28	24.61	32.54	3.05	7/8-20 UNEF
INB00A 16-*	27.40	1.58 / 3.96	52.37	19.05	24.61	32.54	3.05	7/8-20 UNEF
INB00A 18-*	30.80	2.39 / 5.15	52.37	19.05	26.97	34.93	3.05	1-20 UNEF
INB00A 20-*	34.20	2.39 / 5.15	55.57	19.05	29.36	38.10	3.05	1 3/16-18 UNEF
INB00A 22-*	37.40	2.39 / 5.15	55.57	19.05	31.75	41.28	3.05	1 3/16-18 UNEF
INB00A 24-*	40.90	2.39 / 5.15	58.72	20.63	34.93	44.45	3.73	1 7/16-18 UNEF
INB00A 28-*	46.70	2.39 / 5.15	58.72	20.63	39.67	50.80	3.73	1 7/16-18 UNEF
INB00A 32-*	53.40	3.18 / 9.11	61.92	22.23	44.45	57.15	4.39	1 3/4-18 UNS
INB00A 36-*	59.60	3.18 / 9.11	61.92	22.23	49.23	63.50	4.39	2-18 UNS

INB01A In-Line Receptacle



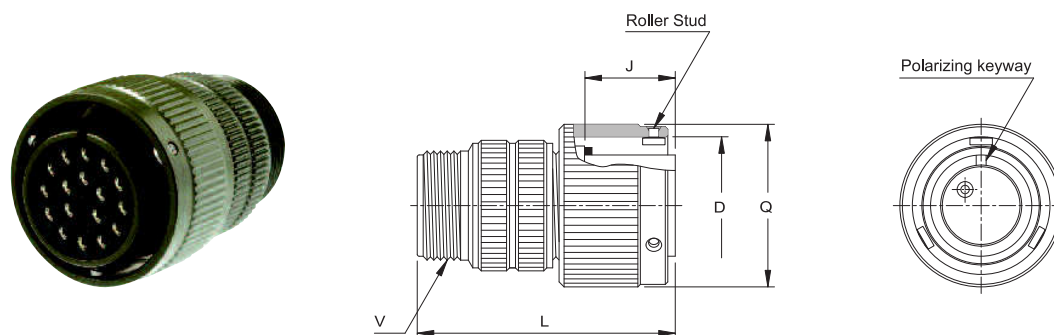
Part No.	D dia. +0.00 -0.15	F Ref.	K min./max.	L Ref.	M +0.79 -0.00	N dia. max.	V Thread Class 2A
INB01A 10SL-*	18.20	16.66	1.58 / 3.96	38.88	14.28	24.61	5/8-24 UNEF
INB01A 14S-*	24.60	22.61	1.58 / 3.96	42.87	14.28	29.36	3/4-20 UNEF
INB01A 16S-*	27.40	25.78	1.58 / 3.96	42.87	14.28	31.75	7/8-20 UNEF
INB01A 16-*	27.40	25.78	1.58 / 3.96	52.37	19.05	31.75	7/8-20 UNEF
INB01A 18-*	30.80	28.96	2.39 / 5.15	52.37	19.05	34.13	1-20 UNEF
INB01A 20-*	34.20	32.13	2.39 / 5.15	55.57	19.05	37.31	1 3/16-18 UNEF
INB01A 22-*	37.40	35.31	2.39 / 5.15	55.57	19.05	40.48	1 3/16-18 UNEF
INB01A 24-*	40.90	38.48	2.39 / 5.15	58.72	20.63	43.66	1 7/16-18 UNEF
INB01A 28-*	46.70	44.83	2.39 / 5.15	58.72	20.63	50.01	1 7/16-18 UNEF
INB01A 32-*	53.40	51.18	3.18 / 9.11	61.92	22.23	56.36	1 3/4-18 UNS
INB01A 36-*	59.60	57.66	3.18 / 9.11	61.92	22.23	62.71	2-18 UNS

INB02A Box Mounting Receptacle



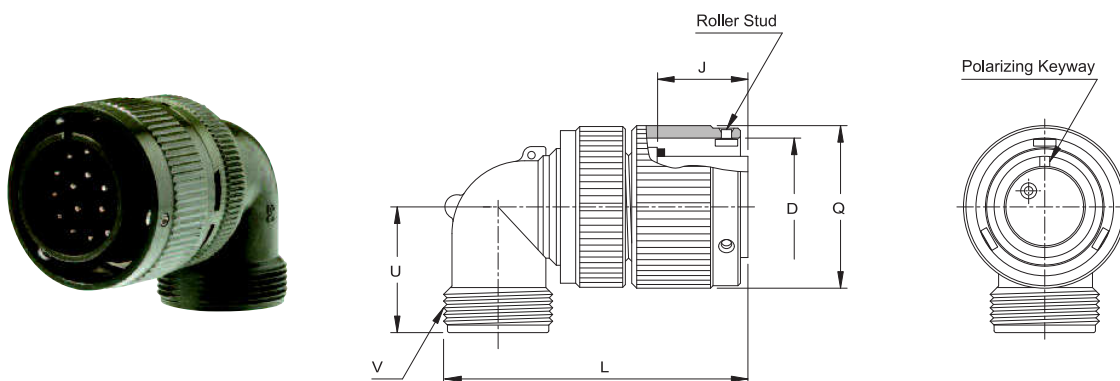
Part No.	D dia. +0.00 -0.15	K min./max.	M +0.79 -0.00	N dia. +0.00 -4.78	R ±0.12	S ±0.79	T dia. +0.25 -0.12
INB02A 10SL.*	18.20	1.58 / 3.96	14.28	19.86	18.26	25.40	3.05
INB02A 14S.*	24.60	1.58 / 3.96	14.28	23.01	23.01	30.18	3.05
INB02A 16S.*	27.40	1.58 / 3.96	14.28	26.21	24.61	32.54	3.05
INB02A 16.*	27.40	1.58 / 3.96	19.05	26.21	24.61	32.54	3.05
INB02A 18.*	30.80	2.39 / 5.15	19.05	29.36	26.97	34.93	3.05
INB02A 20.*	34.20	2.39 / 5.15	19.05	32.56	29.36	38.10	3.05
INB02A 22.*	37.40	2.39 / 5.15	19.05	35.71	31.75	41.28	3.05
INB02A 24.*	40.90	2.39 / 5.15	20.63	38.91	34.93	44.45	3.73
INB02A 28.*	46.70	2.39 / 5.15	20.63	45.26	39.67	50.80	3.73
INB02A 32.*	53.40	3.18 / 9.11	22.23	51.61	44.45	57.15	4.39
INB02A 36.*	59.60	3.18 / 9.11	22.23	57.96	49.23	63.50	4.39

INB06A Straight Plug



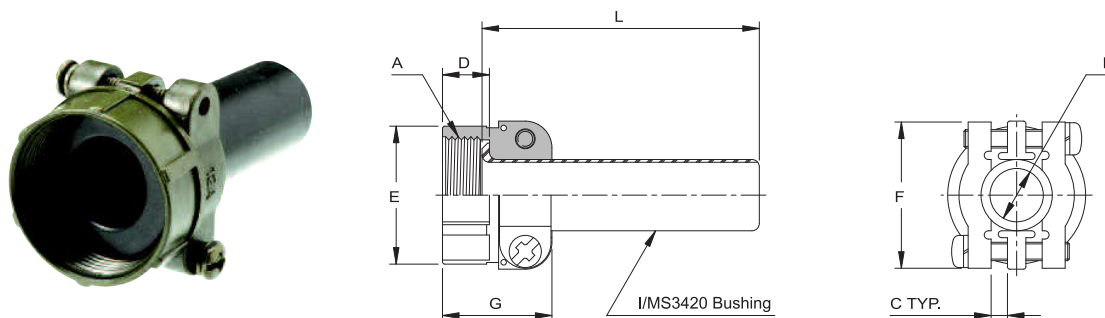
Part No.	D dia. +0.2 -0.0	J ±0.12	L Ref.	Q dia. Ref.	V Thread Class 2A
INB06A 10SL.*	18.4	13.49	38.88	22.8	5/8-24 UNEF
INB06A 14S.*	24.8	13.49	42.87	29.2	3/4-20 UNEF
INB06A 16S.*	27.6	13.49	42.87	32.0	7/8-20 UNEF
INB06A 16.*	27.6	18.26	52.37	32.0	7/8-20 UNEF
INB06A 18.*	31.1	18.26	52.37	36.5	1-20 UNEF
INB06A 20.*	34.5	18.26	55.57	39.9	1 3/16-18 UNEF
INB06A 22.*	37.7	18.26	55.57	43.1	1 3/16-18 UNEF
INB06A 24.*	41.2	18.26	58.72	46.5	1 7/16-18 UNEF
INB06A 28.*	47.0	18.26	58.72	53.4	1 7/16-18 UNEF
INB06A 32.*	53.7	18.26	61.92	60.1	1 3/4-18 UNS
INB06A 36.*	59.9	18.26	61.92	66.3	2-18 UNS

INB08A Right Angle Plug



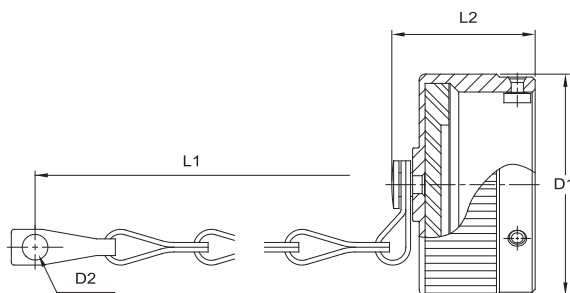
Part No.	D dia. +0.2 -0.0	J ±0.12	L Ref.	Q dia. Ref.	U max.	V Thread Class 2A
INB08A 10SL*	18.4	13.49	46.02	22.8	25.40	5/8-24 UNEF
INB08A 14S*	24.8	13.49	53.97	29.2	28.57	3/4-20 UNEF
INB08A 16S*	27.6	13.49	60.32	32.0	30.17	7/8-20 UNEF
INB08A 16*	27.6	18.26	65.07	32.0	30.17	7/8-20 UNEF
INB08A 18*	31.1	18.26	68.27	36.5	33.32	1-20 UNEF
INB08A 20*	34.5	18.26	76.98	39.9	34.92	1 3/16-18 UNEF
INB08A 22*	37.7	18.26	76.98	43.1	34.92	1 3/16-18 UNEF
INB08A 24*	41.2	18.26	86.51	46.5	39.67	1 7/16-18 UNEF
INB08A 28*	47.0	18.26	86.51	53.4	39.67	1 7/16-18 UNEF
INB08A 32*	53.7	18.26	95.25	60.1	47.62	1 3/4-18 UNS
INB08A 36*	59.90	18.26	100.2	66.3	52.37	2-18 UNS

I/MS3057-■ ■ A Cable Clamp



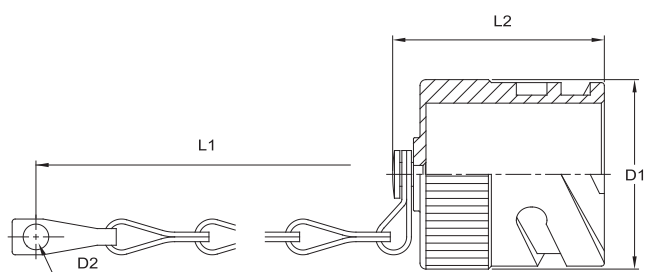
Part No.	Connector Shell Size	A Thread Class 2B	B dia ±0.41	C TYP	D	E dia. ±0.79	F ±0.79	G ±0.79	L Ref.	Bushing Ref.
I/MS3057 - 4A	10SL, 12S & 12	5/8-24 UNEF	5.59	1.57	10.31	20.62	22.23	20.62	69.9	MS3420 - 4
I/MS3057 - 6A	14S & 14	3/4-20 UNEF	7.92	1.98	10.31	24.61	26.97	22.22	66.7	MS3420 - 6
I/MS3057 - 8A	16S & 16	7/8-20 UNEF	11.10	2.77	10.31	27.79	29.36	23.82	63.5	MS3420 - 8
I/MS3057 - 10A	18	1-20 UNEF	14.27	3.18	10.31	30.18	31.75	23.82	60.3	MS3420 - 10
I/MS3057 - 12A	20, 22	1 3/16-18 UNEF	15.88	3.96	10.31	34.93	37.31	23.82	57.2	MS3420 - 12
I/MS3057 - 16A	24, 28	1 7/16-18 UNEF	19.05	4.78	10.31	42.06	42.88	26.18	54.0	MS3420 - 16
I/MS3057 - 20A	32	1 3/4-18 UNS	23.80	6.35	11.91	51.59	51.59	27.78	50.8	MS3420 - 20
I/MS3057 - 24A	36	2-18 UNS	31.75	7.54	13.49	56.36	57.94	29.36	47.6	MS3420 - 24

INB25043 Protective Cover for Receptacles



INC Part No.	VG95234 Part No.	Shell Size Connector	D1 dia. max.	D2 dia. +0.6 -0.0	L1 min.	L2 max.
INB25043 - 10SL	VG95234KR10SL	10SL	23.5	4.3	90.0	30.3
INB25043 - 14S	VG95234KR14S	14S	30.5	4.3	90.0	30.0
INB25043 - 16S	VG95234KR16S	16S	33.0	4.3	90.0	30.3
INB25043 - 16	VG95234KR16	16	33.0	4.3	100.0	35.0
INB25043 - 18	VG95234KR18	18	37.5	4.3	100.0	35.0
INB25043 - 20	VG95234KR20	20	41.0	4.3	115.0	35.0
INB25043 - 22	VG95234KR22	22	44.0	4.3	115.0	35.0
INB25043 - 24	VG95234KR24	24	47.5	4.3	115.0	35.0
INB25043 - 28	VG95234KR28	28	54.5	4.3	160.0	35.0
INB25043 - 32	VG95234KR32	32	61.0	4.3	160.0	35.0
INB25043 - 36	VG95234KR36	36	67.5	4.3	160.0	35.0

INB25042 Protective Cover for Plugs



INC Part No.	VG95234 Part No.	Shell Size Connector	D1 dia. max.	D2 dia. +0.6 -0.0	L1 min.	L2 max.
INB25042 - 10SL	VG95234KB10SL	10SL	21.0	4.3	90.0	34.0
INB25042 - 14S	VG95234KB14S	14S	27.5	4.3	100.0	34.0
INB25042 - 16S	VG95234KB16S	16S	30.0	4.3	100.0	34.0
INB25042 - 16	VG95234KB16	16	30.0	4.3	115.0	42.0
INB25042 - 18	VG95234KB18	18	33.5	4.3	115.0	42.0
INB25042 - 20	VG95234KB20	20	37.0	4.7	130.0	42.0
INB25042 - 22	VG95234KB22	22	40.0	4.7	130.0	42.0
INB25042 - 24	VG95234KB24	24	43.5	4.7	130.0	42.0
INB25042 - 28	VG95234KB28	28	49.5	4.7	190.0	42.0
INB25042 - 32	VG95234KB32	32	56.0	4.7	190.0	42.0
INB25042 - 36	VG95234KB36	36	62.5	4.7	190.0	42.0

Other Connector



Cable Assembly







MIL-DTL-26482 Series 1

TYPE CONNECTORS



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Technical Specifications

[Materials & Finishes]

Shell	Aluminum alloy / Olive drab chromate coating over cadmium or nickel plating
Insulator	Synthetic rubber
Contact	Copper alloy / Gold plating
Gasket and Grommet	Synthetic rubber

[Electrical Data]

Operating Voltage	Maximum Operating Voltage				Test Voltage	
Test Voltage	Service Rating	Test Altitude	DC	AC (r.m.s.)	DC	AC (r.m.s.)
	I	Sea Level	850	600	2,100	1,500
	II	Sea Level	1,275	1,000	3,200	2,300
	I	70,000 feet	-	300	535	375
	II	70,000 feet	-	450	770	500

Current Rating	Contact Size	Rated Current (Amps)	Test Current (Amps)	Potential Drop (Millivolts)
	20	7.5	7.5	<55
	16	22.0	13.0	<50

Wire Range Size	24 to 16 AWG
Insulator Resistance	Min. 5000 MΩ at 77°F (+25°C)

[Mechanical]

Operating Temperature	-67°F (-55°C) to +257°F (+125°C)					
Water Pressure	2 bar differential pressure, leakage ≤16 cm ³ /hr					

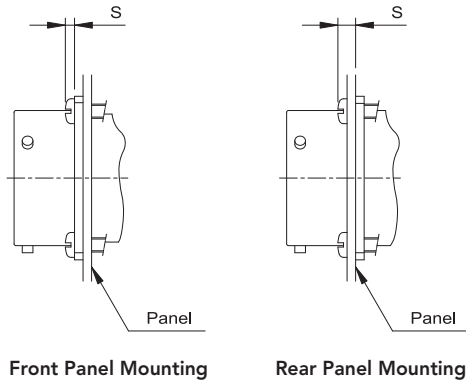
Wire Sealing Range	Contact Size	AWG Wire Size	Insulation Outside Diameter Limit			
			Min.		Max.	
			Inches	mm	Inches	mm
	20	24, 22 and 20	0.060	1.52	0.083	2.11
	16	20, 18 and 16	0.066	1.68	0.109	2.77

Durability	500 cycles of mating / unmating operations
Salt Spray	48 hours at environmental temperature. (Cadmium Plating)
Heat	+347°F (+175°C) for 1,000 hours.
Chemical Resistance	20 hour full immersion unmated in hydraulic fluid and lubricating oil.
Vibration	10 to 2,000Hz (15g's) 10 microseconds maximum discontinuity.
Shock	50g's, 11 ms duration, three major axes. 10 microseconds maximum discontinuity.
Contact Style	Solder
Number of Contact	2 to 61

Contact Retention	Contact Size	Axial Load Min.	
		Newtons	Lbs.
	20	66.7	15
	16	111.2	25

Technical Specifications

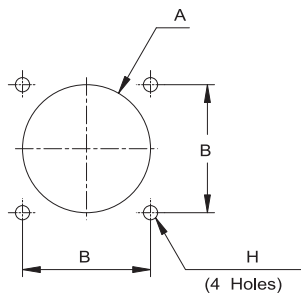
[Panel Mounting Data]



Max. Panel & Screw Head

Shell Size	MS3110	MS3112	MS3119
8	2.21	2.21	5.54
10	2.21	2.21	5.54
12	2.21	2.21	5.54
14	2.21	2.21	5.54
16	2.21	2.21	5.54
18	2.21	2.21	5.54
20	5.38	5.38	8.74
22	5.38	5.38	8.74
24	5.38	5.38	7.90

[Panel Cutout Dimensions]

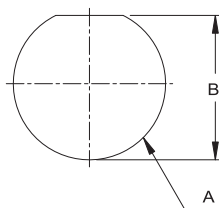


Box & Wall Mounting Receptacle

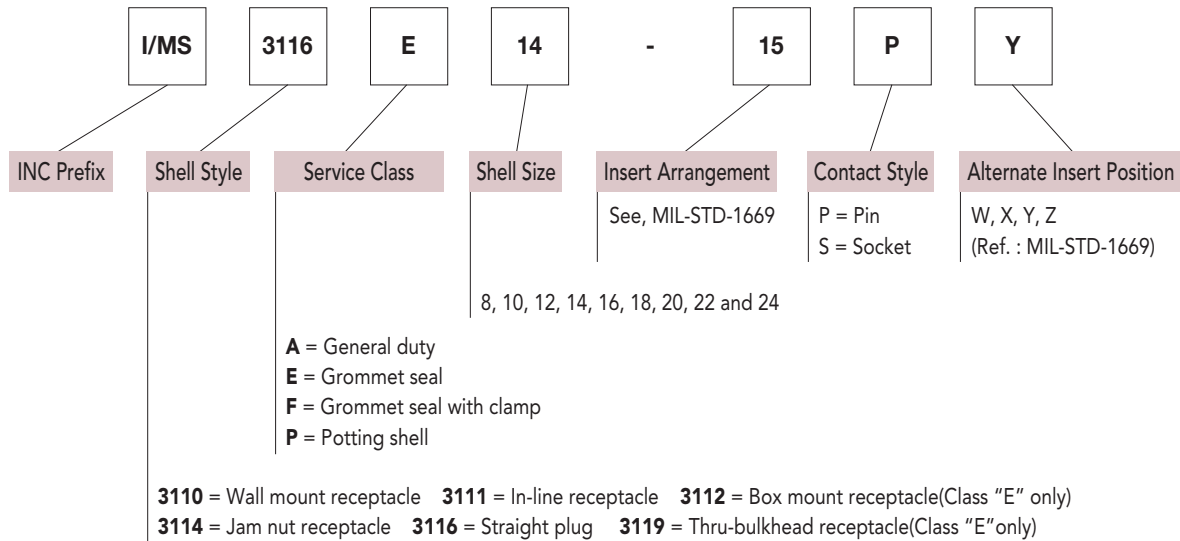
Shell Size	A dia. +0.25 / - 0.00	B(TP)	H dia. ±0.13
8	15.70	15.09	3.18
10	18.67	18.26	3.18
12	21.82	20.26	3.18
14	25.02	23.01	3.18
16	28.27	24.61	3.18
18	31.37	26.97	3.18
20	34.57	29.43	3.18
22	37.72	31.75	3.18
24	40.92	34.93	3.94

Jam Nut Receptacle

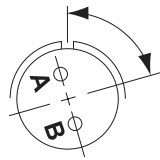
Shell Size	A dia. +0.25 / -0.00	B +0.00 / -0.25
8	14.68	13.8
10	17.7	17.0
12	22.5	21.1
14	25.6	24.3
16	28.8	27.5
18	32.0	30.7
20	35.2	33.9
22	38.3	37.1
24	41.5	40.0



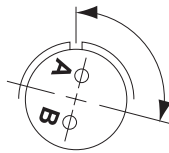
Ordering Information



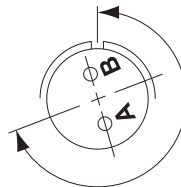
Insert Arrangement & Alternate Positioning



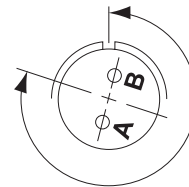
Position W



Position X



Position Y



Position Z

View looking into front face of pin insert or rear of socket insert.

Shell Size	Layout	Service Rating	Total Contacts	Contact Size			Alternate Position Degrees			
				20	16	12	W	X	Y	Z
8	2	I	2	2			58	122	-	-
	3	I	3	3			60	210	-	-
	4	I	4	4			45	-	-	-
	33	I	3	3			90	-	-	-
10	6	I	6	6			90	-	-	-
	98	I	6	6			90	180	240	270
12	3	II	3		3		-	-	180	-
	8	I	8				90	112	203	292
	10	I	10	10			60	155	270	295
14	5	II	5		5		40	92	184	273
	12	I	12	8	4		43	90	-	-
	15	I	15	14	1		17	110	155	234
	18	I	18	18			15	90	180	270
	19	I	19	19			30	165	315	-
16	8	II	8		8		54	152	180	331
	23	I	23	22	1		158	270	-	-
	26	I	26	26			60	-	275	338

Shell Size	Layout	Service Rating	Total Contacts	Contact Size			Alternate Position Degrees			
				20	16	12	W	X	Y	Z
18	11	II	11		11		62	119	241	340
	30	I	30	29	1		180	193	285	350
	32	I	32	32			85	138	222	265
20	16	II	16		16		238	318	333	347
	24	I	24	24			70	145	215	290
	27	I	27	27			72	144	216	288
	39	I	39	37	2		83	144	252	333
	41	I	41	41			45	126	225	-
22	21	II	21		21		16	135	175	349
	32	I	32	32			72	145	215	288
	34	I	34	34			62	142	218	298
	41	I	41	27	14		39	135	264	-
	55	I	55	55			30	142	226	314
24	31	I	31		31		90	225	255	-
	61	I	61	61			90	180	270	324

Contact Arrangement

Front face of pin insert illustrated.

CONTACT LEGEND

○ 20
● 16

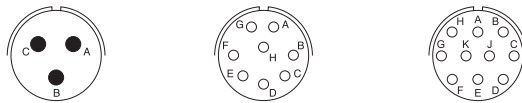
Shell Size 8

Shell Size 10



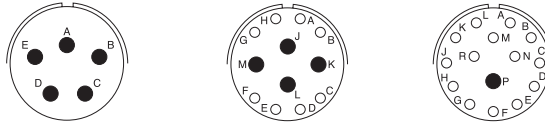
Insert Arrangement	8-2	8-3	8-4	8-33	10-6	10-98
Contact Size - No. of Contacts	#20-2	#20-3	#20-4	#20-3	#20-6	#20-6
Service Rating	I	I	I	I	I	I

Shell Size 12



Insert Arrangement	12-3	12-8	12-10
Contact Size - No. of Contacts	#16-3	#20-8	#20-10
Service Rating	II	I	I

Shell Size 14

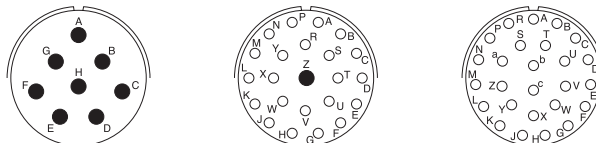


Insert Arrangement	14-5	14-12	14-15
Contact Size - No. of Contacts	#16-5	#20-8, #16-4	#20-14, #16-1
Service Rating	II	I	I



Insert Arrangement	14-18	14-19
Contact Size - No. of Contacts	#20-18	#20-19
Service Rating	I	I

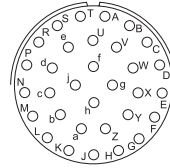
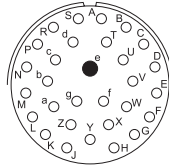
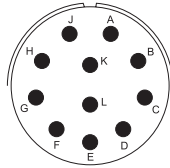
Shell Size 16



Insert Arrangement	16-8	16-23	16-26
Contact Size - No. of Contacts	#16-8	#20-22, #16-1	#20-26
Service Rating	II	I	I

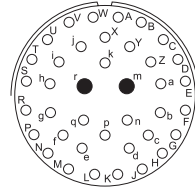
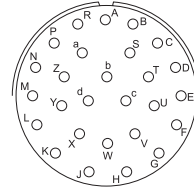
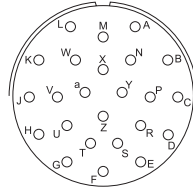
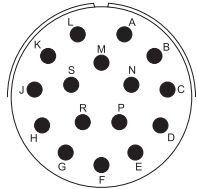
Contact Arrangement

Shell Size 18

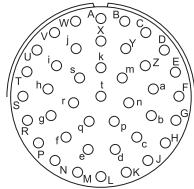


Insert Arrangement	18-11	18-30	18-32
Contact Size - No. of Contacts	#16-11	#20-29, #16-1	#20-32
Service Rating	II	I	I

Shell Size 20

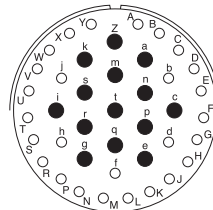
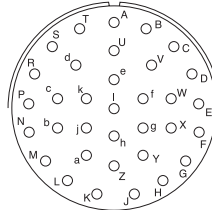
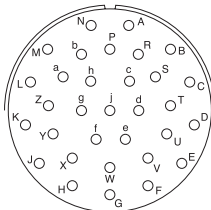
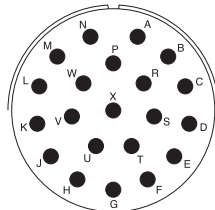


Insert Arrangement	20-16	20-24	20-27	20-39
Contact Size - No. of Contacts	#16-16	#20-24	#20-27	#20-37, #16-2
Service Rating	II	I	I	I



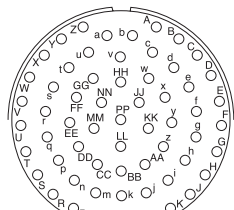
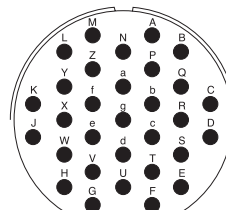
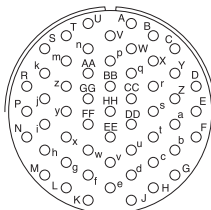
Insert Arrangement	20-41
Contact Size - No. of Contacts	#20-41
Service Rating	I

Shell Size 22



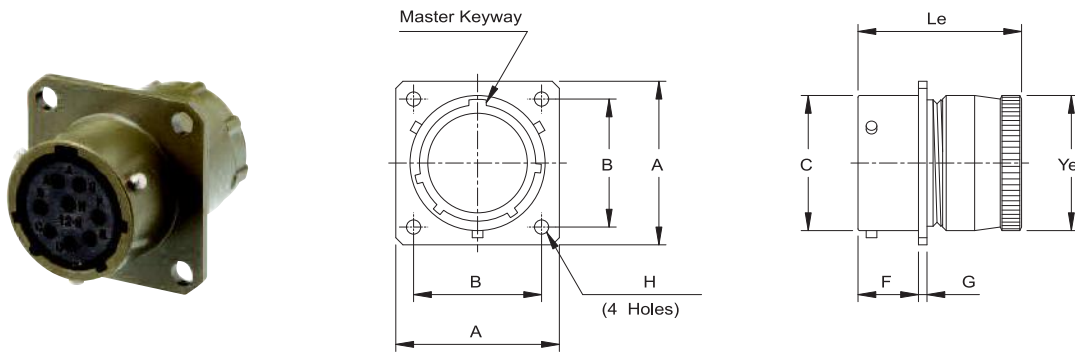
Insert Arrangement	22-21	22-32	22-34	22-41
Contact Size - No. of Contacts	#16-21	#20-32	#20-34	#20-27, #16-14
Service Rating	II	I	I	I

Shell Size 24



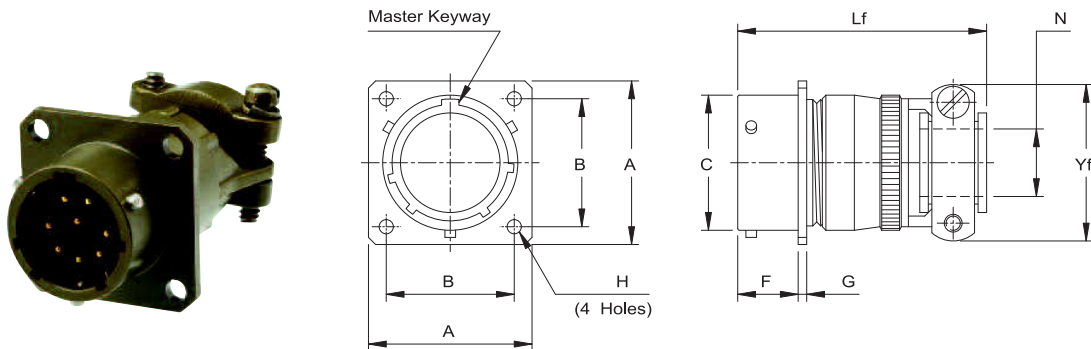
Insert Arrangement	22-55	24-31	24-61
Contact Size - No. of Contacts	#20-55	#16-31	#20-61
Service Rating	I	I	I

I/MS3110E Wall Mounting Receptacle With Backnut



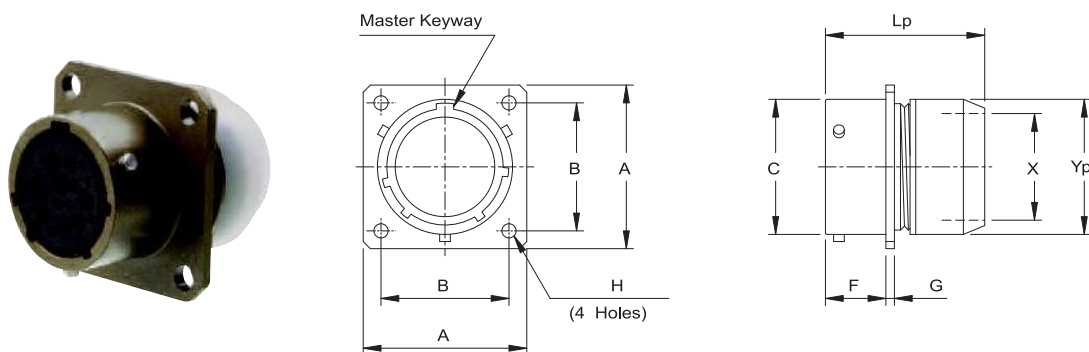
Part No.	A max.	B ±0.13	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	H dia. ±0.13	Le max.	Ye dia. max.
I/MS3110E 8-*	21.03	15.09	12.04	10.95	1.57	3.05	33.73	15.44
I/MS3110E 10-*	24.23	18.26	15.01	10.95	1.57	3.05	33.73	18.64
I/MS3110E 12-*	26.59	20.62	19.08	10.95	1.57	3.05	33.73	21.79
I/MS3110E 14-*	28.98	23.01	22.25	10.95	1.57	3.05	33.73	24.99
I/MS3110E 16-*	31.34	24.61	25.43	10.95	1.57	3.05	33.73	28.19
I/MS3110E 18-*	33.73	26.97	28.60	10.95	1.57	3.05	33.73	31.34
I/MS3110E 20-*	36.90	29.36	31.78	14.12	2.39	3.05	38.89	34.54
I/MS3110E 22-*	40.08	31.75	34.95	14.12	2.39	3.05	38.89	37.69
I/MS3110E 24-*	43.18	34.93	38.13	14.96	2.39	3.73	40.49	40.89

I/MS3110F Wall Mounting Receptacle With Clamp



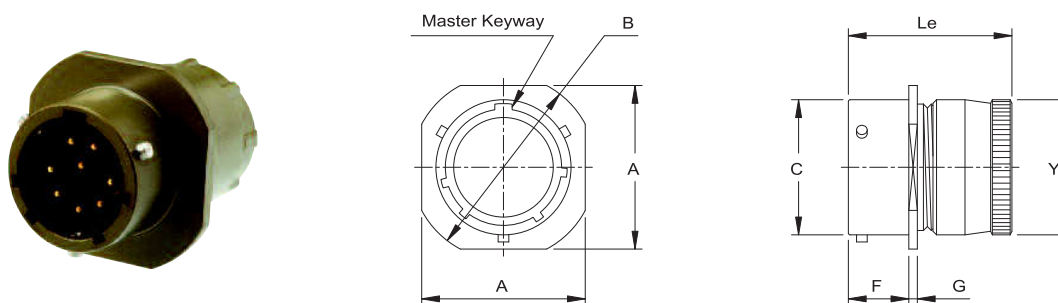
Part No.	A max.	B ±0.13	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	H dia. ±0.13	Lf max.	N dia. ±0.25	Yf max.
I/MS3110F 8-*	21.03	15.09	12.04	10.95	1.57	3.05	48.82	3.18	21.03
I/MS3110F 10-*	24.23	18.26	15.01	10.95	1.57	3.05	48.82	4.78	22.63
I/MS3110F 12-*	26.59	20.62	19.08	10.95	1.57	3.05	48.82	7.92	25.81
I/MS3110F 14-*	28.98	23.01	22.25	10.95	1.57	3.05	48.82	9.53	28.98
I/MS3110F 16-*	31.34	24.61	25.43	10.95	1.57	3.05	51.99	12.70	30.56
I/MS3110F 18-*	33.73	26.97	28.60	10.95	1.57	3.05	52.78	15.88	37.31
I/MS3110F 20-*	36.90	29.36	31.78	14.12	2.39	3.05	59.54	15.88	37.31
I/MS3110F 22-*	40.08	31.75	34.95	14.12	2.39	3.05	59.54	19.05	42.06
I/MS3110F 24-*	43.18	34.93	38.13	14.96	2.39	3.73	61.11	20.32	44.45

I/MS3110P Wall Mounting Receptacle With Potting Shell



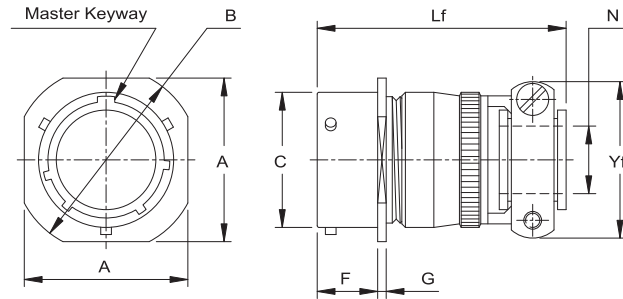
Part No.	A max.	B ±0.13	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	H dia. ±0.13	Lp max.	X dia. min.	Yp dia. max.
I/MS3110P 8-*	21.03	15.09	12.04	10.95	1.57	3.05	36.91	8.05	15.44
I/MS3110P 10-*	24.23	18.26	15.01	10.95	1.57	3.05	36.91	11.02	18.64
I/MS3110P 12-*	26.59	20.62	19.08	10.95	1.57	3.05	36.91	13.92	21.79
I/MS3110P 14-*	28.98	23.01	22.25	10.95	1.57	3.05	36.91	17.09	24.99
I/MS3110P 16-*	31.34	24.61	25.43	10.95	1.57	3.05	36.91	20.27	28.19
I/MS3110P 18-*	33.73	26.97	28.60	10.95	1.57	3.05	36.91	22.83	31.34
I/MS3110P 20-*	36.90	29.36	31.78	14.12	2.39	3.05	42.47	26.01	34.54
I/MS3110P 22-*	40.08	31.75	34.95	14.12	2.39	3.05	42.47	29.18	37.69
I/MS3110P 24-*	43.18	34.93	38.13	14.96	2.39	3.73	44.04	32.36	40.89

I/MS3111E In-Line Receptacle With Backnut



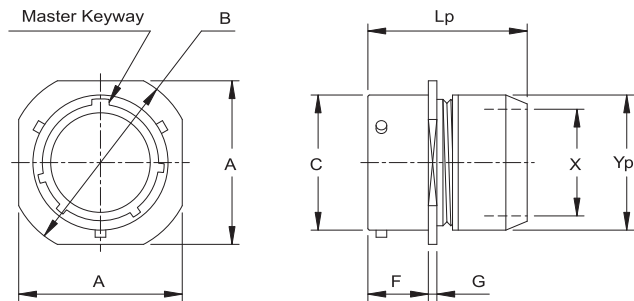
Part No.	A max.	B dia. ±0.51	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	Le max.	Ye dia. max.
I/MS3111E 8-*	21.03	23.83	12.04	10.16	2.39	33.73	15.44
I/MS3111E 10-*	24.23	26.97	15.01	10.16	2.39	33.73	18.64
I/MS3111E 12-*	26.59	29.36	19.08	10.16	2.39	33.73	21.79
I/MS3111E 14-*	28.98	31.75	22.25	10.16	2.39	33.73	24.99
I/MS3111E 16-*	31.34	34.14	25.43	10.16	2.39	33.73	28.19
I/MS3111E 18-*	33.73	36.53	28.60	10.16	2.39	33.73	31.34
I/MS3111E 20-*	36.91	39.67	31.78	13.59	2.92	38.89	35.54
I/MS3111E 22-*	40.08	42.88	34.95	13.59	2.92	38.89	37.69
I/MS3111E 24-*	43.18	46.02	38.13	14.17	2.92	40.49	40.89

I/MS3111F In-Line Receptacle With Clamp



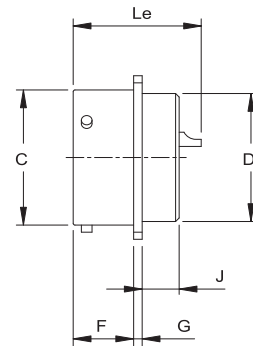
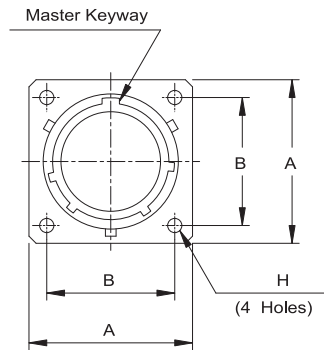
Part No.	A max.	B dia. ±0.51	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	Lf max.	N dia. ±0.25	Yf max.
I/MS3111F 8-*	21.03	23.83	12.04	10.16	2.39	48.82	3.18	21.03
I/MS3111F 10-*	24.23	26.97	15.01	10.16	2.39	48.82	4.78	22.63
I/MS3111F 12-*	26.59	29.36	19.08	10.16	2.39	48.82	7.92	25.81
I/MS3111F 14-*	28.98	31.75	22.25	10.16	2.39	48.82	9.53	28.98
I/MS3111F 16-*	31.34	34.14	25.43	10.16	2.39	51.99	12.70	30.56
I/MS3111F 18-*	33.73	36.53	28.60	10.16	2.39	52.78	15.88	37.31
I/MS3111F 20-*	36.91	39.67	31.78	13.59	2.92	59.54	15.88	37.31
I/MS3111F 22-*	40.08	42.88	34.95	13.59	2.92	59.54	19.05	42.06
I/MS3111F 24-*	43.18	46.02	38.13	14.17	2.92	61.11	20.32	44.45

I/MS3111P In-Line Receptacle With Potting Shell



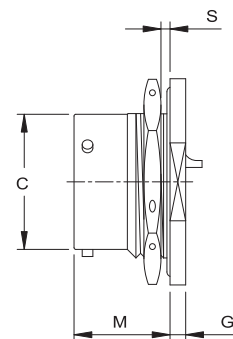
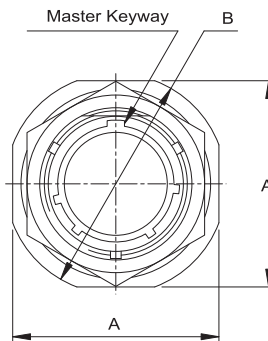
Part No.	A max.	B dia. ±0.51	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	Lp max.	X dia. min.	Yp dia. max.
I/MS3111P 8-*	21.03	23.83	12.04	10.16	2.39	36.91	8.05	15.44
I/MS3111P 10-*	24.23	26.97	15.01	10.16	2.39	36.91	11.02	18.64
I/MS3111P 12-*	26.59	29.36	19.08	10.16	2.39	36.91	13.92	21.79
I/MS3111P 14-*	28.98	31.75	22.25	10.16	2.39	36.91	17.09	24.99
I/MS3111P 16-*	31.34	34.14	25.43	10.16	2.39	36.91	20.27	28.19
I/MS3111P 18-*	33.73	36.53	28.60	10.16	2.39	36.91	22.83	31.34
I/MS3111P 20-*	36.91	39.67	31.78	13.59	2.92	42.47	26.01	34.54
I/MS3111P 22-*	40.08	42.88	34.95	13.59	2.92	42.47	29.18	37.69
I/MS3111P 24-*	43.18	46.02	38.13	14.17	2.92	44.04	32.36	40.89

I/MS3112E Box Mounting Receptacle Not Accepting Backshell



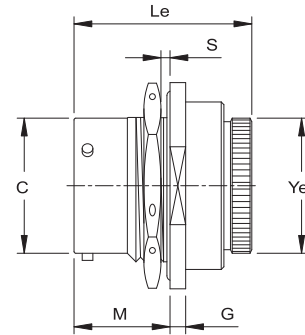
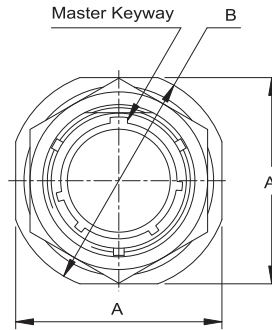
Part No.	A max.	B ±0.13	C dia. +0.00 -0.15	D dia. +0.79 -0.41	F +0.79 -0.00	G ±0.41	H dia. ±0.13	J max.	Le max.
I/MS3112E 8-*	21.03	15.09	12.04	11.12	10.95	1.57	3.05	8.99	24.84
I/MS3112E 10-*	24.23	18.26	15.01	14.27	10.95	1.57	3.05	8.99	24.84
I/MS3112E 12-*	26.59	20.62	19.08	17.48	10.95	1.57	3.05	8.99	24.84
I/MS3112E 14-*	28.98	23.01	22.25	20.62	10.95	1.57	3.05	8.99	24.84
I/MS3112E 16-*	31.34	24.61	25.43	23.83	10.95	1.57	3.05	8.99	24.84
I/MS3112E 18-*	33.73	26.97	28.60	26.97	10.95	1.57	3.05	8.99	24.84
I/MS3112E 20-*	36.90	29.36	31.78	30.18	14.12	2.39	3.05	10.59	30.38
I/MS3112E 22-*	40.08	31.75	34.95	33.32	14.12	2.39	3.05	10.59	30.38
I/MS3112E 24-*	43.26	34.93	38.13	36.53	14.96	2.39	3.73	11.30	30.38

I/MS3114A Jam Nut Receptacle Not Accepting Backshell



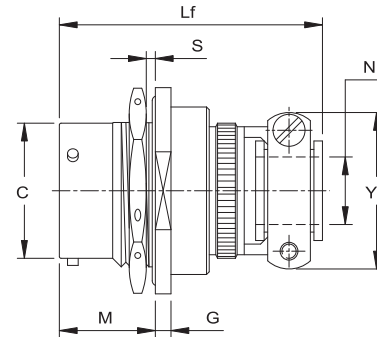
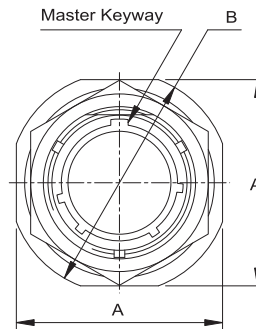
Part No.	A max.	B dia. +0.00 -0.81	C dia. +0.00 -0.15	G ±0.51	M +0.79 -0.00	S Panel thick Ref. min. / max.
I/MS3114A 8-*	24.23	27.38	12.04	2.97	17.55	1.57 / 3.18
I/MS3114A 10-*	27.38	30.56	15.01	2.97	17.55	1.57 / 3.18
I/MS3114A 12-*	32.16	35.33	19.08	2.97	17.55	1.57 / 3.18
I/MS3114A 14-*	35.33	38.51	22.25	2.97	17.55	1.57 / 3.18
I/MS3114A 16-*	38.51	41.68	25.43	2.97	17.55	1.57 / 3.18
I/MS3114A 18-*	41.68	44.86	28.60	2.97	17.55	1.57 / 3.18
I/MS3114A 20-*	46.43	49.63	31.78	3.76	22.33	1.57 / 6.35
I/MS3114A 22-*	49.63	52.78	34.95	3.76	22.33	1.57 / 6.35
I/MS3114A 24-*	52.78	55.96	38.13	3.76	23.16	1.57 / 6.35

I/MS3114E Jam Nut Receptacle With Backnut



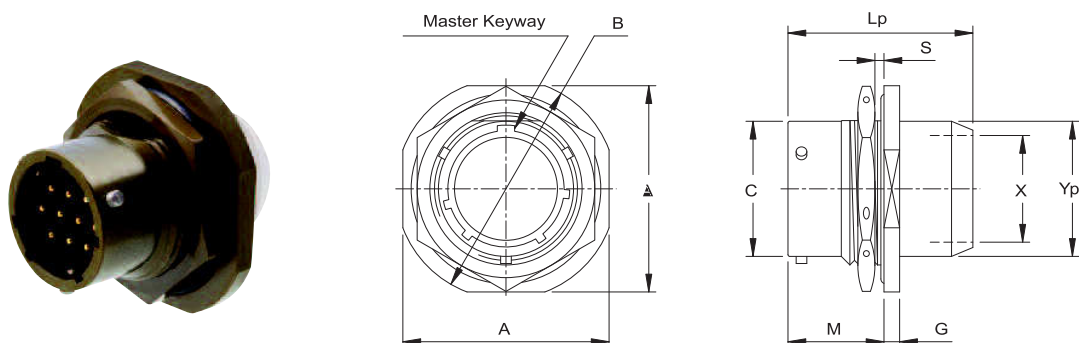
Part No.	A max.	B dia. +0.00 -0.81	C dia. +0.00 -0.15	G ±0.41	Le max.	M +0.79 -0.00	S Panel thick min. / max.	Ye dia. max.
I/MS3114E 8-*	24.23	27.38	12.04	2.97	34.14	17.55	1.57 / 3.18	19.05
I/MS3114E 10-*	27.38	30.56	15.01	2.97	34.14	17.55	1.57 / 3.18	22.23
I/MS3114E 12-*	32.16	35.33	19.08	2.97	34.14	17.55	1.57 / 3.18	25.40
I/MS3114E 14-*	35.33	38.51	22.25	2.97	34.14	17.55	1.57 / 3.18	28.58
I/MS3114E 16-*	38.51	41.68	25.43	2.97	34.14	17.55	1.57 / 3.18	31.75
I/MS3114E 18-*	41.68	44.86	28.60	2.97	34.14	17.55	1.57 / 3.18	34.93
I/MS3114E 20-*	46.43	49.63	31.78	3.76	40.49	22.33	1.57 / 6.35	38.89
I/MS3114E 22-*	49.63	52.78	34.95	3.76	40.49	22.33	1.57 / 6.35	42.06
I/MS3114E 24-*	52.78	55.96	38.13	3.76	41.68	23.16	1.57 / 6.35	45.24

I/MS3114F Jam Nut Receptacle With Clamp



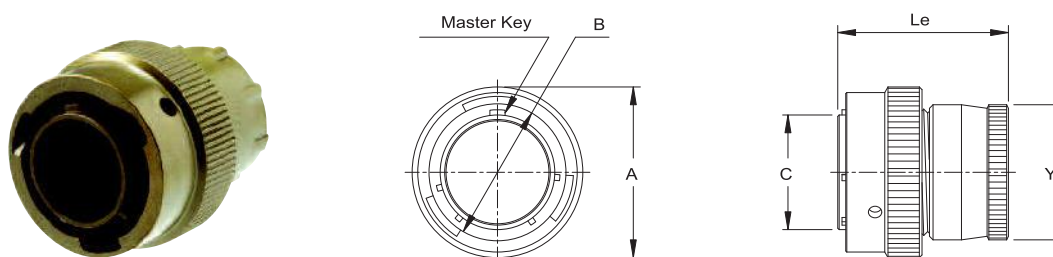
Part No.	A max.	B dia. +0.00 -0.81	C dia. +0.00 -0.15	G ±0.41	Lf max.	M +0.79 -0.00	N dia. ±0.25	S Panel thick min. / max.	Yf max.
I/MS3114F 8-*	24.23	27.38	12.04	2.97	48.41	17.55	3.18	1.57 / 3.18	21.03
I/MS3114F 10-*	27.38	30.56	15.01	2.97	48.41	17.55	4.78	1.57 / 3.18	22.63
I/MS3114F 12-*	32.16	35.33	19.08	2.97	48.41	17.55	7.92	1.57 / 3.18	25.81
I/MS3114F 14-*	35.33	38.51	22.25	2.97	48.41	17.55	9.53	1.57 / 3.18	28.98
I/MS3114F 16-*	38.51	41.68	25.43	2.97	51.99	17.55	12.70	1.57 / 3.18	30.56
I/MS3114F 18-*	41.68	44.86	28.60	2.97	52.78	17.55	15.88	1.57 / 3.18	37.31
I/MS3114F 20-*	46.43	49.63	31.78	3.76	59.13	22.33	15.88	1.57 / 6.35	37.31
I/MS3114F 22-*	49.63	52.78	34.95	3.76	59.13	22.33	19.05	1.57 / 6.35	42.06
I/MS3114F 24-*	52.78	55.96	38.13	3.76	62.31	23.16	20.32	1.57 / 6.35	44.45

I/MS3114P Jam Nut Receptacle With Potting Shell



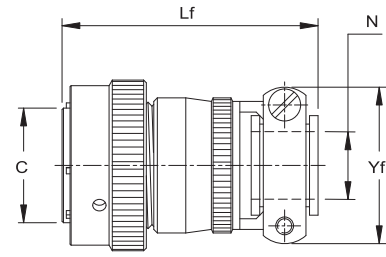
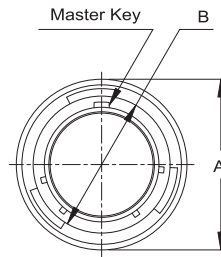
Part No.	A max.	B dia. +0.00 -0.81	C dia. +0.00 -0.15	G ±0.51	Lp max.	M +0.79 -0.00	S Panel thick min. / max.	X dia. min.	Yp dia. max.
I/MS3114P 8-*	24.23	27.38	12.04	2.97	35.33	17.55	1.57 / 3.18	8.05	15.44
I/MS3114P 10-*	27.38	30.56	15.01	2.97	35.33	17.55	1.57 / 3.18	11.02	18.64
I/MS3114P 12-*	32.16	35.33	19.08	2.97	35.33	17.55	1.57 / 3.18	13.92	21.79
I/MS3114P 14-*	35.33	38.51	22.25	2.97	35.33	17.55	1.57 / 3.18	17.09	24.99
I/MS3114P 16-*	38.51	41.68	25.43	2.97	35.33	17.55	1.57 / 3.18	20.27	28.19
I/MS3114P 18-*	41.68	44.86	28.60	2.97	35.33	17.55	1.57 / 3.18	22.83	31.34
I/MS3114P 20-*	46.43	49.63	31.78	3.76	41.68	22.33	1.57 / 6.35	26.01	34.54
I/MS3114P 22-*	49.63	52.78	34.95	3.76	41.68	22.33	1.57 / 6.35	29.18	37.69
I/MS3114P 24-*	52.78	55.96	38.13	3.76	43.26	23.16	1.57 / 6.35	32.36	40.89

I/MS3116E Straight Plug With Backnut



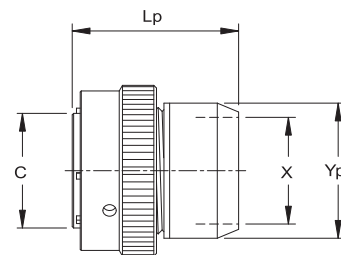
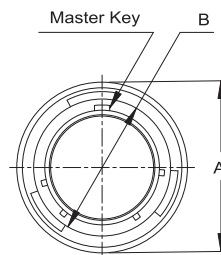
Part No.	A dia. max.	B dia. +0.15 -0.00	C dia. +0.00 -0.15	Le max.	Ye dia. max.
I/MS3116E 8-*	19.86	12.19	9.09	33.73	15.44
I/MS3116E 10-*	23.52	15.27	12.34	33.73	18.64
I/MS3116E 12-*	26.49	19.30	15.19	33.73	21.79
I/MS3116E 14-*	30.05	22.45	18.36	33.73	24.99
I/MS3116E 16-*	33.15	25.63	21.54	33.73	28.19
I/MS3116E 18-*	35.33	28.83	24.08	33.73	31.34
I/MS3116E 20-*	38.89	31.98	27.25	36.91	34.54
I/MS3116E 22-*	42.06	35.15	30.43	36.91	37.69
I/MS3116E 24-*	45.14	38.33	33.60	38.35	40.89

I/MS3116F Straight Plug With Clamp



Part No.	A dia. max.	B dia. +0.15 -0.00	C dia. +0.00 -0.15	Lf max.	N dia. ±0.25	Yf max.
I/MS3116F 8-*	19.86	12.19	9.09	48.41	3.18	21.03
I/MS3116F 10-*	23.52	15.27	12.34	48.41	4.78	22.63
I/MS3116F 12-*	26.49	19.30	15.19	48.41	7.92	25.81
I/MS3116F 14-*	30.05	22.45	18.36	48.41	9.53	28.98
I/MS3116F 16-*	33.15	25.63	21.54	51.99	12.70	30.56
I/MS3116F 18-*	35.33	28.83	24.08	52.78	15.88	37.31
I/MS3116F 20-*	38.89	31.98	27.25	57.15	15.88	37.31
I/MS3116F 22-*	42.06	35.15	30.43	57.15	19.05	42.06
I/MS3116F 24-*	45.14	38.33	33.60	58.72	20.32	44.45

I/MS3116P Straight Plug With Potting Shell

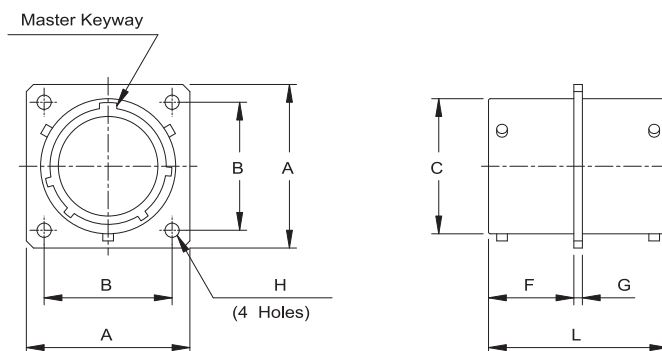


Part No.	A dia. max.	B dia. +0.15 -0.00	C dia. +0.00 -0.15	Lp max.	X dia. min.	Yp dia. max.
I/MS3116P 8-*	19.86	12.19	9.09	38.10	8.05	15.44
I/MS3116P 10-*	23.52	15.27	12.34	38.10	11.02	18.64
I/MS3116P 12-*	26.49	19.30	15.19	38.10	13.92	21.79
I/MS3116P 14-*	30.05	22.45	18.36	38.10	17.09	24.99
I/MS3116P 16-*	33.15	25.63	21.54	38.10	20.27	28.19
I/MS3116P 18-*	35.33	28.83	24.08	38.10	22.83	31.34
I/MS3116P 20-*	38.89	31.98	27.25	40.87	26.01	34.54
I/MS3116P 22-*	42.06	35.15	30.43	40.87	29.18	37.69
I/MS3116P 24-*	45.14	38.33	33.60	42.85	32.36	40.89

I/MS3119E Thru-Bulkhead Receptacle

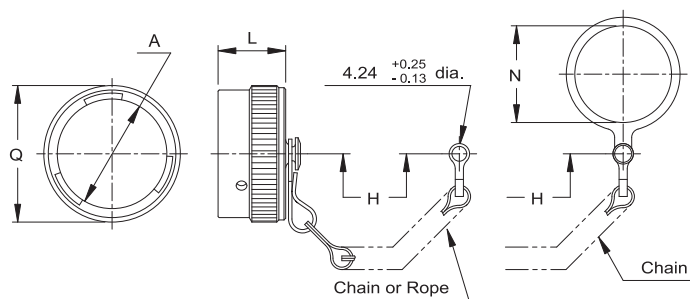


Reference Only



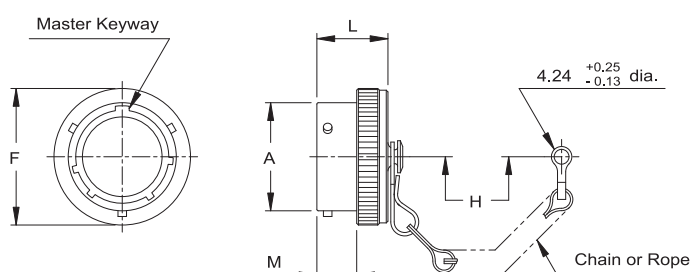
Part No.	A max.	B ±0.13	C dia. +0.00 -0.15	F +0.79 -0.00	G ±0.41	H dia. ±0.13	L max.
I/MS3119E 8-*	21.03	15.09	12.04	14.27	1.57	3.05	28.58
I/MS3119E 10-*	24.23	18.26	15.01	14.27	1.57	3.05	28.58
I/MS3119E 12-*	26.59	20.62	19.08	14.27	1.57	3.05	28.58
I/MS3119E 14-*	28.98	23.01	22.25	14.27	1.57	3.05	28.58
I/MS3119E 16-*	31.34	24.61	25.43	14.27	1.57	3.05	28.58
I/MS3119E 18-*	33.73	26.97	28.60	14.27	1.57	3.05	28.58
I/MS3119E 20-*	36.91	29.36	31.78	17.48	2.39	3.05	35.71
I/MS3119E 22-*	40.08	31.75	34.95	17.48	2.39	3.05	35.71
I/MS3119E 24-*	43.26	34.93	38.13	17.48	2.39	3.73	35.71

I/MS3181 Protective Cover For Receptacle



Part No.	Dash no. (with Chain)	Dash no. (with Chain and Ring)	Dash no. (with Rope)	A dia. +0.15 -0.00	H +12.70 -6.35	L max.	N dia. min.	Q dia. max.
I/MS3181.*	8C	8N	8R	12.19	76.20	14.27	14.68	18.64
I/MS3181.*	10C	10N	10R	15.27	76.20	14.27	17.86	21.82
I/MS3181.*	12C	12N	12R	19.30	88.90	14.27	22.63	25.40
I/MS3181.*	14C	14N	14R	22.45	88.90	14.27	25.81	28.58
I/MS3181.*	16C	16N	16R	25.63	88.90	14.27	28.98	31.75
I/MS3181.*	18C	18N	18R	28.83	88.90	14.27	32.16	34.92
I/MS3181.*	20C	20N	20R	31.98	101.60	14.27	35.33	38.10
I/MS3181.*	22C	22N	22R	35.15	101.60	14.27	38.51	41.28
I/MS3181.*	24C	24N	24R	38.33	101.60	15.29	41.68	44.45

I/MS3180 Protective Cover For Plug



Part No.	Dash no. (with Chain)	Dash no. (with Rope)	A dia. +0.00 -0.15	F dia. max.	H +12.70 -6.35	L max.	M +0.25 -0.00
I/MS3180.*	8C	8R	12.04	18.26	76.20	14.27	9.35
I/MS3180.*	10C	10R	15.01	21.44	76.20	14.27	9.35
I/MS3180.*	12C	12R	19.08	25.40	88.90	14.27	9.35
I/MS3180.*	14C	14R	22.25	28.58	88.90	14.27	9.35
I/MS3180.*	16C	16R	25.43	31.75	88.90	14.27	9.35
I/MS3180.*	18C	18R	28.60	34.92	88.90	14.27	9.35
I/MS3180.*	20C	20R	31.78	38.10	101.60	15.88	10.92
I/MS3180.*	22C	22R	34.95	41.28	101.60	15.88	10.92
I/MS3180.*	24C	24R	38.13	44.45	101.60	16.71	11.76



International
Network —
Connectors