

# MIL-C-5015 CONNECTOR

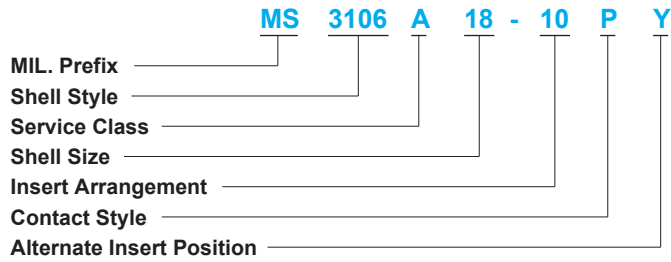


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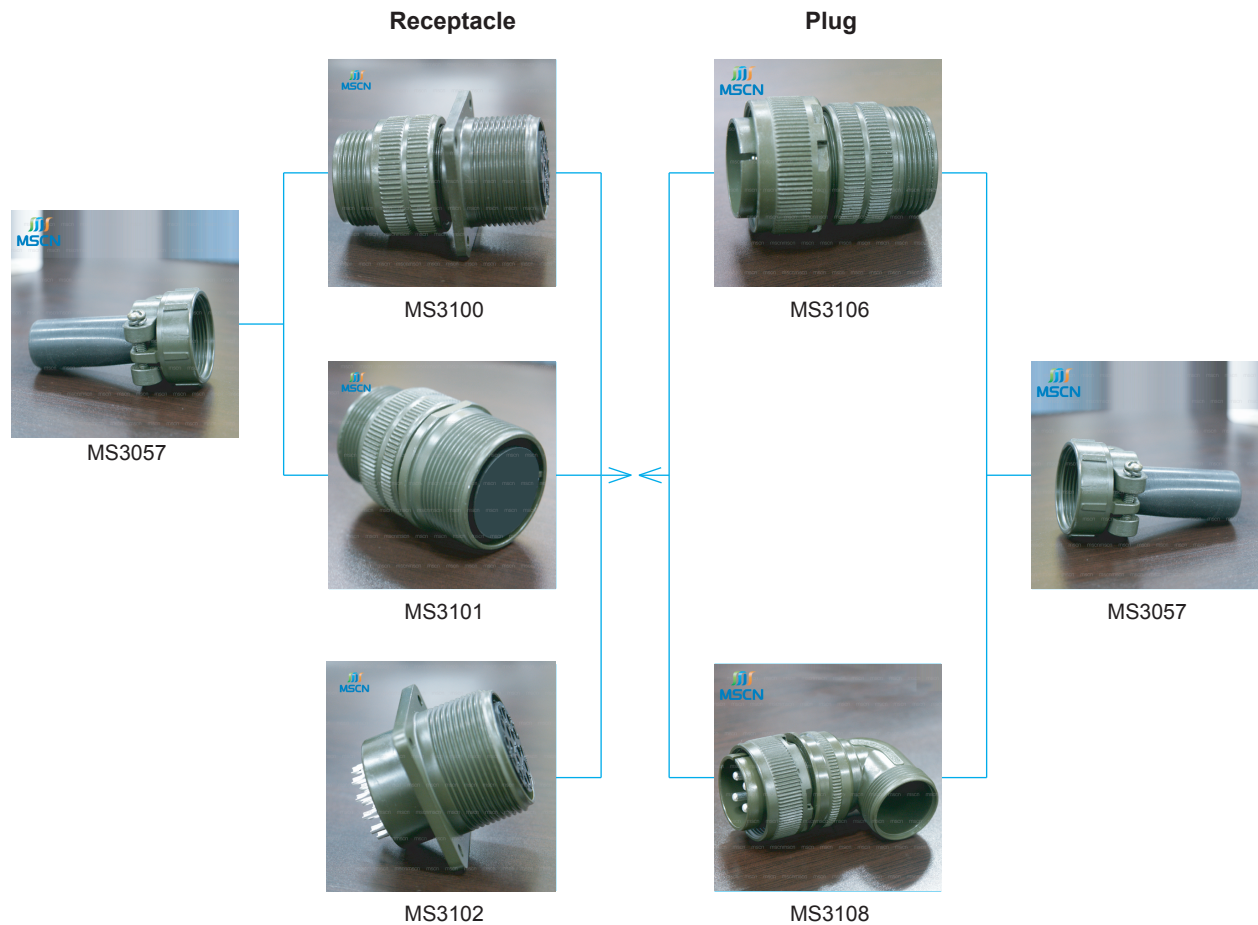
# MSCN / MIL-C-5015 Series

## Ordering Information



<p><b>Shell Style</b></p> <ul style="list-style-type: none"> <li>3100 = Wall mount receptacle</li> <li>3101 = In-line receptacle</li> <li>3102 = Box mount receptacle</li> <li>3106 = Straight plug</li> <li>3108 = Right angle plug</li> </ul> <p><b>Service Class</b></p> <ul style="list-style-type: none"> <li>A = Solid endbell, solder contacts and non-pressurized.</li> <li>B = Split endbell, solder contacts and non-pressurized.</li> <li>E = Environmental, use R or F.</li> <li>F = R type with clamp.</li> <li>R = Solder contacts with grommet seal and without clamp.</li> </ul>	<p><b>Shell Size</b></p> <p>10SL, 12S, 12, 14S, 14, 16S, 16, 18, 20, 22, 24, 28, 32, 36</p> <p><b>Insert Arrangement</b></p> <p>See, MIL-STD-1651A</p> <p><b>Contact Style</b></p> <ul style="list-style-type: none"> <li>P = Pin</li> <li>S = Socket</li> </ul> <p><b>Alternate Insert Position</b></p> <p>W, X, Y, Z (Ref. : MIL-STD-1651A)</p>
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## Typical Mating Guide



## Technical Specifications

### Materials & Finishes

Shell	Aluminum alloy / Olive drab chromate coating over cadmium or green 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		Test Voltage AC V r.m.s.	Air Spacing Nominal (Inches)	Creepage Nominal (Inches)
	DC V	AC V r.m.s.			
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 Megohms at 77°F (+25°C) per MIL-DTL-5015, 3.18

### Mechanical

Operating Temperature -67°F (-55°C) to +257°F (+125°C)

Sealing 48 hours in 6 feet of water per MIL-DTL-5015, 4.6.19.  
Meet 20 day extreme humidity testing per

#### Wire Sealing Range

Contact Size	Insulation Outside Diameter Limit			
	Min.		Max.	
	Inches	mm	Inches	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	0.415	10.54	0.550	13.97

Durability 100 cycles minimum. To MIL-DTL-5015, 3.16

Salt Spray MIL-STD-1344 Method 1001 Condition B, minimum (Cadmium) 48 hour

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's) 10 microseconds maximum discontinuity to MIL-STD-1344 Method 2005, condition II per MIL-DTL-5015

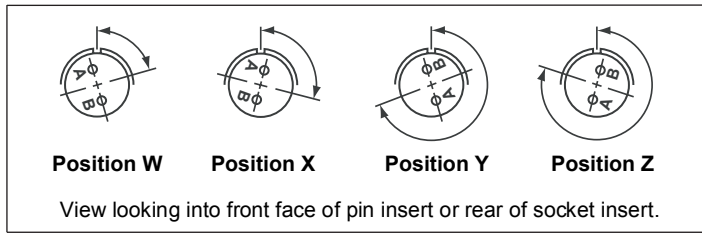
Shock 50g 11 millisecond duration, three major axes. 10 microseconds maximum discontinuity to MIL-DTL-5015 per MIL-STD-1344 Method 2004, condition A, 3.13

#### 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

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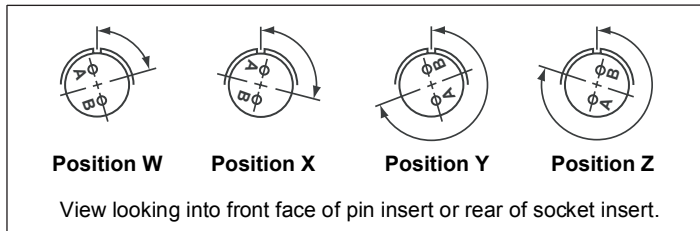
## Insert Arrangement & Alternate Positioning



Insert Arrangement	Service Rating	Total Cont-acts	Contact Size					Alternate Position -Degrees			
			0	4	8	12	16	W	X	Y	Z
10SL-3	A	3					3	-	-	-	-
10SL-4	A	2					2	-	-	-	-
12S-3	A	2					2	70	145	215	290
12S-4	D	1					1	-	-	-	-
12-5	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
14-3	A	1			1			-	-	-	-
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		-	-	-	-
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	-
20-2	D	1	1					-	-	-	-
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

Insert Arrangement	Service Rating	Total Cont-acts	Contact Size					Alternate Position -Degrees			
			0	4	8	12	16	W	X	Y	Z
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
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	D/A	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

Insert Arrangement & Alternate Positioning



Insert Arrangement	Service Rating	Total Contact-acts	Contact Size					Alternate Position -Degrees			
			0	4	8	12	16	W	X	Y	Z
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	2	12	35	110	250	325
28-3	E	3			3			70	145	215	290
28-4	E/D	9				2	7	35	110	250	325
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
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/D/A/Inst.	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	A/D	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	-
32-22	A	54					54	80	110	250	280
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

Insert Arrangement	Service Rating	Total Contact-acts	Contact Size					Alternate Position -Degrees			
			0	4	8	12	16	W	X	Y	Z
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

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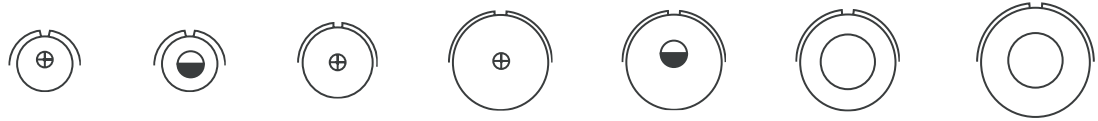
## Contact Arrangement



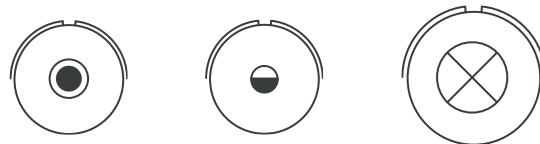
front face of pin insert or rear face of socket insert illustrated

CONTACT LEGEND 16 12 8 4 0

### 1 CONTACT

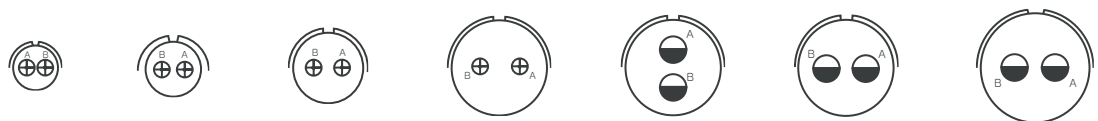


Insert Arrangement	12S - 4	12 - 5	14S - 4	16S - 3	16 - 2	16 - 12	18 - 6
Contact Size - No. of Contacts	#16 - 1	#12 - 1	#16 - 1	#16 - 1	#12 - 1	#4 - 1	#4 - 1
Service Rating	D	D	D	B	E	A	D

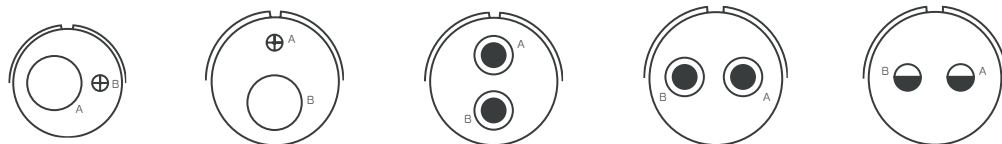


Insert Arrangement	18 - 7	18 - 16	22 - 7
Contact Size - No. of Contacts	#8 - 1	#12 - 1	#0 - 1
Service Rating	B	C	E

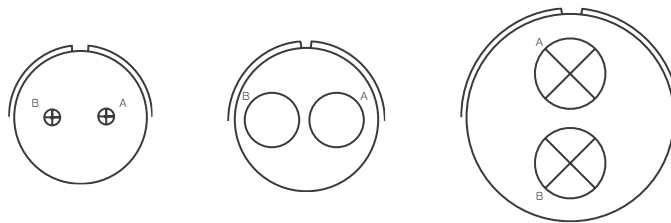
### 2 CONTACTS



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

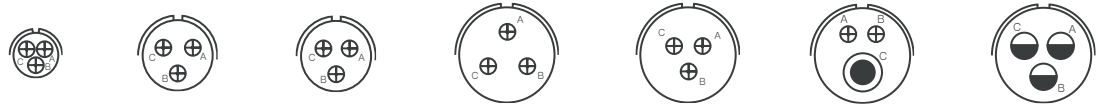
## Contact Arrangements



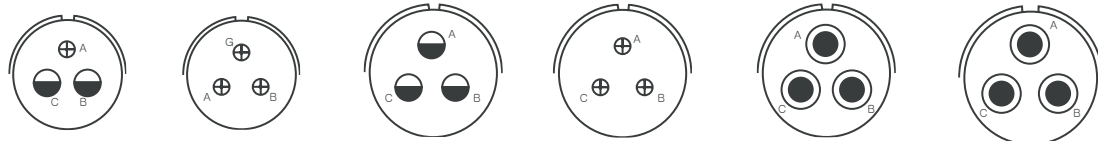
front face of pin insert or rear face of socket insert illustrated

**CONTACT LEGEND** 16 12 8 4 0

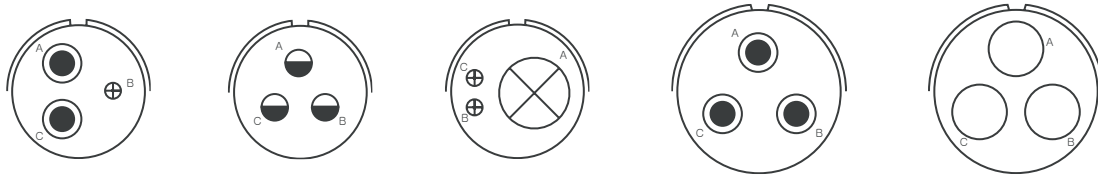
### 3 CONTACTS



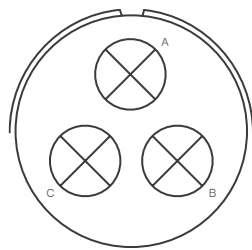
<b>Insert Arrangement</b>	10SL - 3	14S - 1	14S - 7	16 - 5	16 - 6	16 - 7	16 - 10
<b>Contact Size - No. of Contacts</b>	#16 - 3	#16 - 3	#16 - 3	#16 - 3	#16 - 3	#16 - 2, #8 - 1	#12 - 3
<b>Service Rating</b>	A	A	A	A	A	A	A



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



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



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

### 4 CONTACTS



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

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## Contact Arrangement

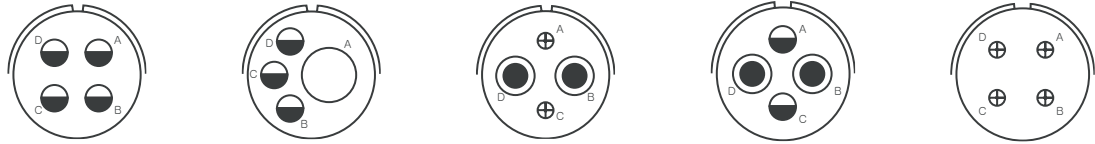


front face of pin insert or rear face of socket insert illustrated

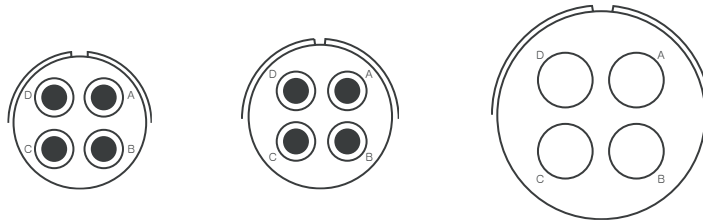
CONTACT LEGEND

16 12 8 4 0

### 4 CONTACTS

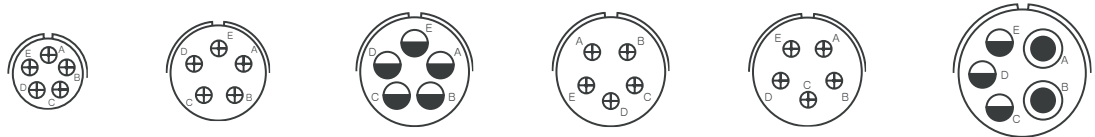


Insert Arrangement	20 - 4	20 - 20	20 - 24	22 - 4	22 - 10
Contact Size - No. of Contacts	#12 - 4	#12 - 3, #4 - 1	#16 - 2, #8 - 2	#12 - 2, #8 - 2	#16 - 4
Service Rating	D	A	A	A	E

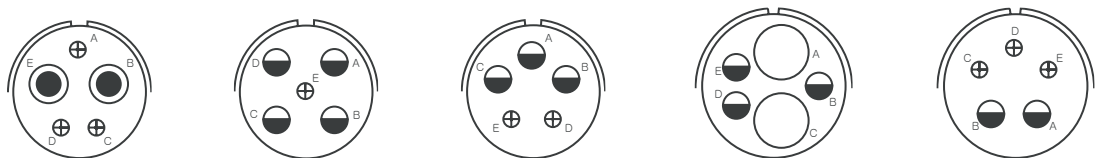


Insert Arrangement	22 - 22	24 - 22	32 - 17
Contact Size - No. of Contacts	#8 - 4	#8 - 4	#4 - 4
Service Rating	A	D	D

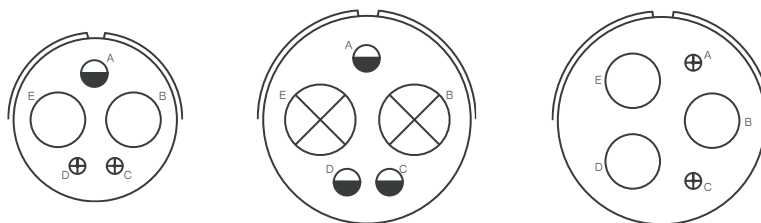
### 5 CONTACTS



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(A, B, C, D)	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(B, C, D, E)	E



## Contact Arrangements

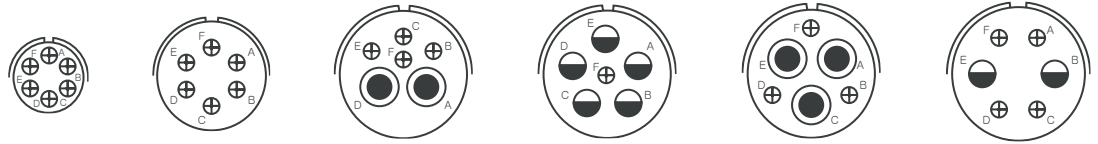


front face of pin insert or rear face of socket insert illustrated

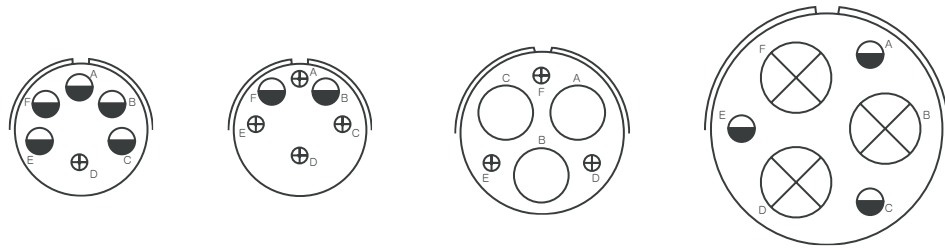
CONTACT LEGEND

16 12 8 4 0

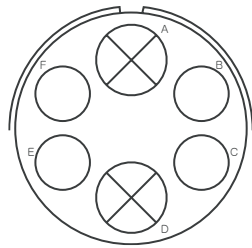
### 6 CONTACTS



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

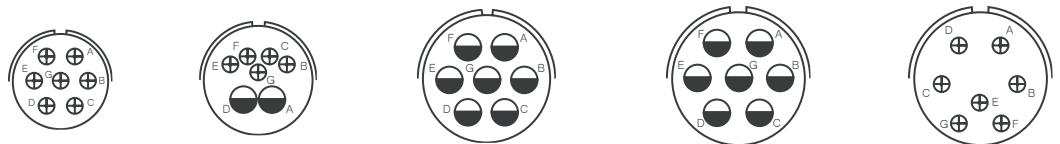


Insert Arrangement	22 - 15	22 - 24	28 - 22	36 - 3
Contact Size - No. of Contacts	#16 - 1, #12 - 5	#16 - 4, #12 - 2	#16 - 3, #4 - 3	#12 - 3, #0 - 3
Service Rating	E(D) / A(A, B, C, E, F)	D(C, D, E) / A(A, B, F)	D	D



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	A	A	A	D(A, B, C, D) / A(E, F, G)



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(C, D, E)	E

# MSCN / MIL-C-5015 Series

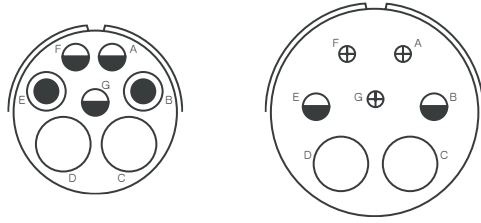
## Contact Arrangement



front face of pin insert or rear face of socket insert illustrated

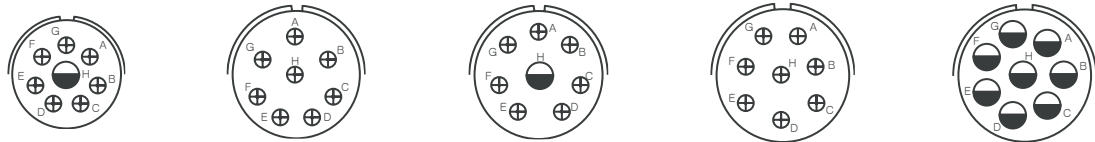
CONTACT LEGEND 16 12 8 4 0

### 7 CONTACTS

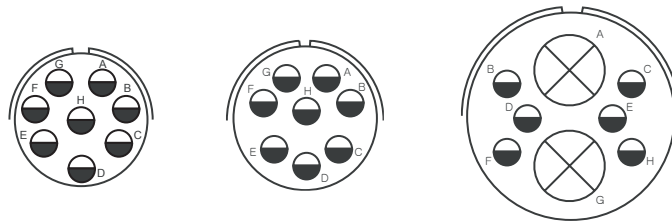


<b>Insert Arrangement</b>	28 - 10	32 - 10
<b>Contact Size - No. of Contacts</b>	#12 - 3, #8 - 2, #4 - 2	#16 - 3, #8 - 2, #4 - 2
<b>Service Rating</b>	D(G) / A(Bal.)	E(A, F) / B(G) / D(E) / A(C, D)

### 8 CONTACTS

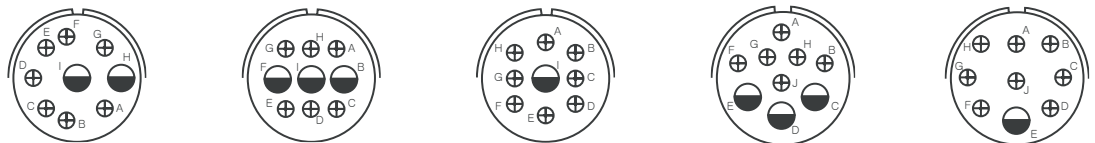


<b>Insert Arrangement</b>	18 - 8	20 - 7	20 - 9	22 - 18	22 - 23
<b>Contact Size - No. of Contacts</b>	#16 - 7, #12 - 1	#16 - 8	#16 - 7, #12 - 1	#16 - 8	#12 - 8
<b>Service Rating</b>	A	D(A, B, H, G) / A(C, D, E, F)	D(H) / A(Bal.)	D(A, B, F, G, H) / A(C, D, E)	D(H) / A(Bal.)

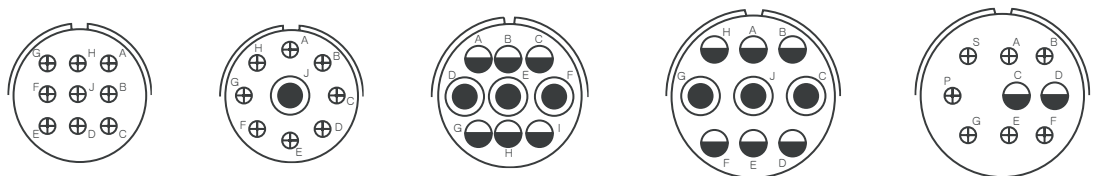


<b>Insert Arrangement</b>	22 - 36	24 - 6	32 - 15
<b>Contact Size - No. of Contacts</b>	#12 - 8	#12 - 8	#16 - 6, #0 - 2
<b>Service Rating</b>	D(H) / A(Bal.)	D(A, G, H) / A(Bal.)	D

### 9 CONTACTS



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



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

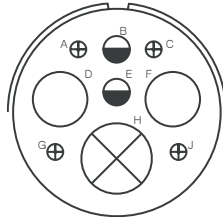
## Contact Arrangements



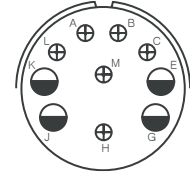
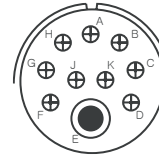
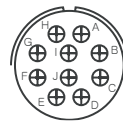
front face of pin insert or rear face of socket insert illustrated

**CONTACT LEGEND** 16 12 8 4 0

### 9 CONTACTS

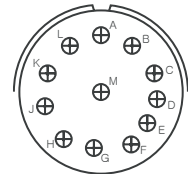
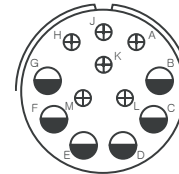
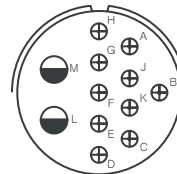
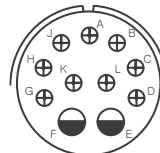
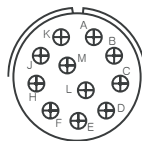


### 10 CONTACTS



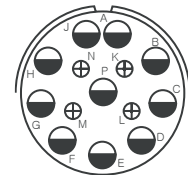
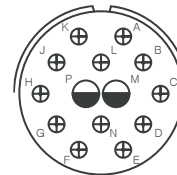
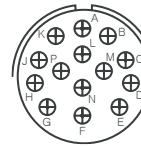
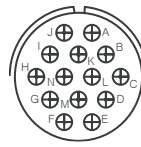
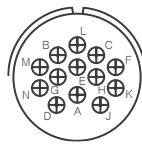
<b>Insert Arrangement</b>	32 - 3	18 - 1	24 - 21	28 - 19
<b>Contact Size - No. of Contacts</b>	#16 - 4, #12 - 2, #4 - 2, #0 - 1	#16 - 10	#16 - 9, #8 - 1	#16 - 6, #12 - 4
<b>Service Rating</b>	D	A(B, C, F, G) / Inst.(Bal.)	D	B(H, M) / D(A, B) / A(Bal.)

### 11 CONTACTS

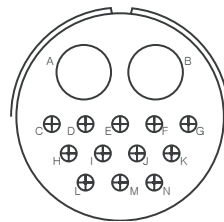
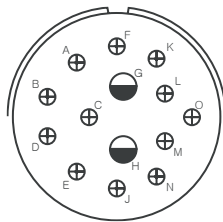


<b>Insert Arrangement</b>	20 - 33	24 - 20	28 - 8	28 - 9	28 - 18
<b>Contact Size - No. of Contacts</b>	#16 - 11	#16 - 9, #12 - 2	#16 - 10, #12 - 2	#16 - 6, #12 - 6	#16 - 12
<b>Service Rating</b>	A	D	E(L, M) / D(B) / A(Bal.)	D	C(M) / D(G, H, J, K, L) / A(B) / Inst.(Bal.)

### 13 CONTACTS



<b>Insert Arrangement</b>	20 - 11	20 - 27	22 - 19	28 - 2	28 - 20
<b>Contact Size - No. of Contacts</b>	#16 - 13	#16 - 14	#16 - 14	#16 - 12, #12 - 2	#16 - 4, #12 - 10
<b>Service Rating</b>	Inst.	A	A	D	A



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

# MSCN / MIL-C-5015 Series

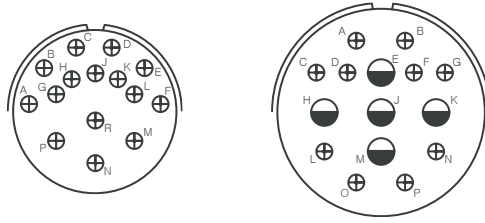
## Contact Arrangement



front face of pin insert or rear face of socket insert illustrated

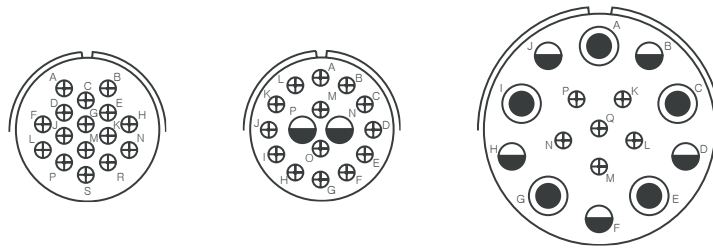
CONTACT LEGEND 16 12 8 4 0

### 15 CONTACTS



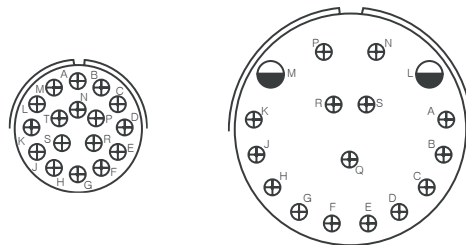
Insert Arrangement	28 - 17	32 - 12
Contact Size - No. of Contacts	#16 - 15	#16 - 10, #12 - 5
Service Rating	B(R) / D(M, N, P) / A(A to L)	A(C, D, E, F, G) / D(Bal.)

### 16 CONTACTS



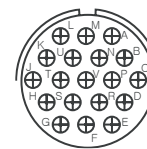
Insert Arrangement	24 - 5	24 - 7	36 - 14
Contact Size - No. of Contacts	#16 - 16	#16 - 14, #12 - 2	#16 - 6, #12 - 5, #8 - 5
Service Rating	A	A	D

### 17 CONTACTS



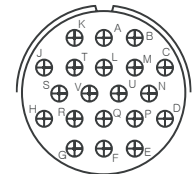
Insert Arrangement	20 - 29	36 - 13
Contact Size - No. of Contacts	#16 - 17	#16 - 15, #12 - 2
Service Rating	A	E(N, P, Q) / A(Bal.)

### 19 CONTACTS



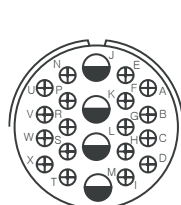
Insert Arrangement	22 - 14
Contact Size - No. of Contacts	#16 - 19
Service Rating	A

### 20 CONTACTS



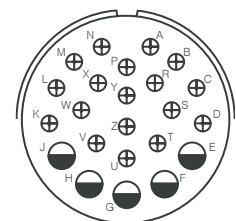
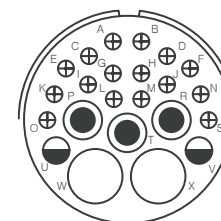
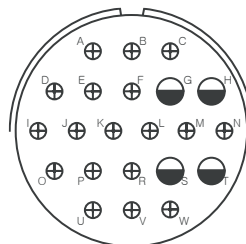
Insert Arrangement	18 - 16
Contact Size - No. of Contacts	#16 - 20
Service Rating	A

### 22 CONTACTS



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

### 23 CONTACTS



Insert Arrangement	36 - 1	32 - 6	32 - 13
Contact Size - No. of Contacts	#16 - 18, #12 - 4	#16 - 16, #12 - 2, #8 - 3, #4 - 2	#16 - 18, #12 - 5
Service Rating	D	A	D

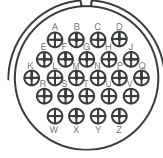
## Contact Arrangements



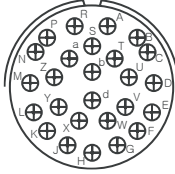
front face of pin insert or rear face of socket insert illustrated

CONTACT LEGEND 16 12 8 4 0

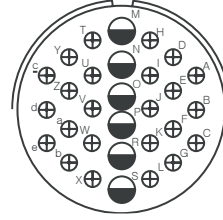
### 24 CONTACTS



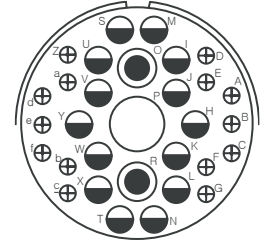
### 26 CONTACTS



### 30 CONTACTS

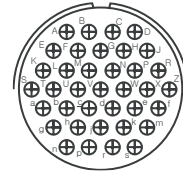
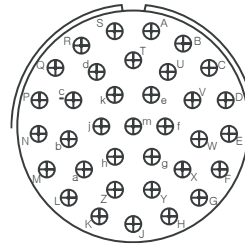
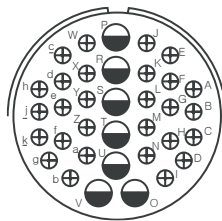
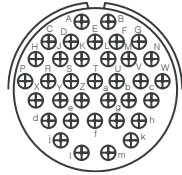


### 31 CONTACTS



Insert Arrangement	24 - 28	28 - 12	32 - 8	36 - 9
Contact Size - No. of Contacts	#16 - 24	#16 - 26	#16 - 24, #12 - 6	#16 - 14, #12 - 14, #8 - 2, #4 - 1
Service Rating	Inst.	A	A	A

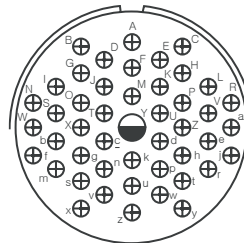
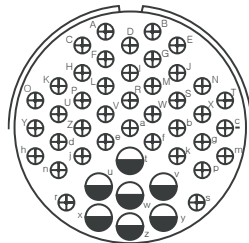
### 35 CONTACTS



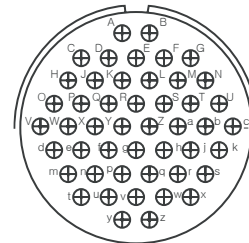
### 37 CONTACTS

Insert Arrangement	28 - 15	32 - 7	36 - 15	28 - 21
Contact Size - No. of Contacts	#16 - 35	#16 - 28, #12 - 7	#16 - 35	#16 - 37
Service Rating	A	Inst.(A, B, h, j) / A(Bal.)	D(M) / A(Bal.)	A

### 47 CONTACTS

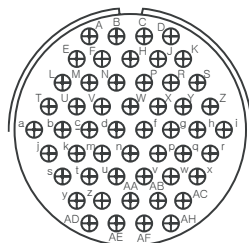


### 48 CONTACTS



Insert Arrangement	36 - 7	36 - 8	36 - 10
Contact Size - No. of Contacts	#16 - 40, #12 - 7	#16 - 46, #12 - 1	#16 - 48
Service Rating	A	A	A

### 52 CONTACTS

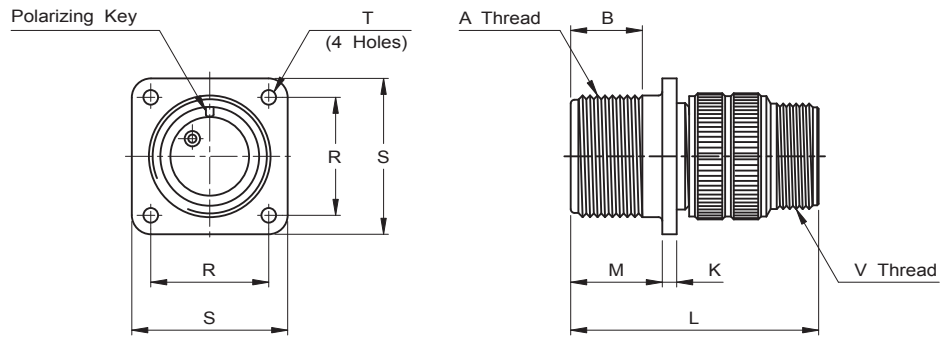


Insert Arrangement	36 - 52
Contact Size - No. of Contacts	#16 - 52
Service Rating	A

# MSCN / MIL-C-5015 Series

## Wall Mounting Receptacle

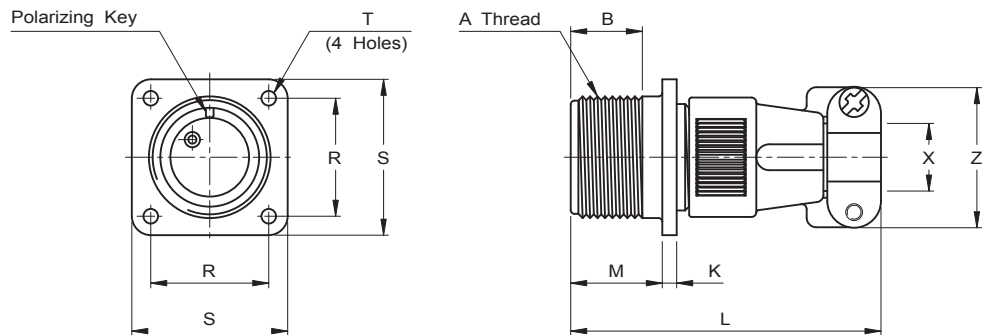
MS3100 Class "A"



MIL-C-5015 Part no.	A Thread Class 2A	B min.	K min. / max.	L max.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	V Thread Class 2A
MS3100A 10SL-*	5/8-24 UNF	9.53	1.58 / 3.96	38.88	14.28	18.26	25.40	3.05	5/8-24 NEF
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 NEF
MS3100A 12-*	3/4-20 UNEF	15.88	1.58 / 3.96	52.37	19.05	20.62	27.79	3.05	5/8-24 NEF
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
MS3100A 14-*	7/8-20 UNEF	15.88	1.58 / 3.96	52.37	19.05	23.01	30.18	3.05	3/4-20 UNEF
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
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
MS3100A 18-*	1 1/8-18 NEF	15.88	2.39 / 5.15	52.37	19.05	26.97	34.93	3.05	1-20 UNEF
MS3100A 20-*	1 1/4-18 NEF	15.88	2.39 / 5.15	55.57	19.05	29.36	38.10	3.05	1 3/16-18 NEF
MS3100A 22-*	1 3/8-18 NEF	15.88	2.39 / 5.15	55.57	19.05	31.75	41.28	3.05	1 3/16-18 NEF
MS3100A 24-*	1 1/2-18 NEF	15.88	2.39 / 5.15	58.72	20.63	34.93	44.45	3.73	1 7/16-18 NEF
MS3100A 28-*	1 3/4-18 NEF	15.88	2.39 / 5.15	58.72	20.63	39.67	50.80	3.73	1 7/16-18 NEF
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
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

## Wall Mounting Receptacle

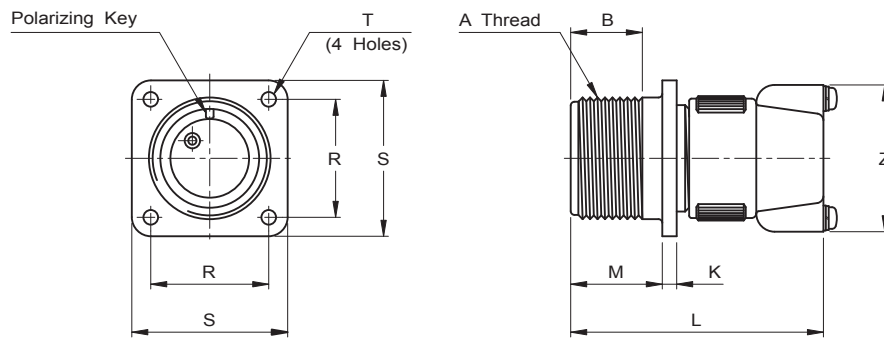
MS3100 Class "E", "F"



MIL-C-5015 Part no.	A Thread Class 2A	B min.	K min. / max.	L max.	M +0.79 -0.00	R ±0.12	S ±0.79	T dia. +0.25 -0.12	X min. Cable-range	Z max.
MS3100E/F 10SL-*	5/8-24 UNF	9.53	1.98 / 3.96	57.15	14.28	18.26	25.40	3.05	7.14	28.57
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
MS3100E/F 12-*	3/4-20 UNEF	15.88	1.98 / 3.96	66.67	19.05	20.62	27.79	3.05	7.14	28.57
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
MS3100E/F 14-*	7/8-20 UNEF	15.88	1.98 / 3.96	66.67	19.05	23.01	30.18	3.05	10.32	34.11
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
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
MS3100E/F 18-*	1 1/8-18 NEF	15.88	2.39 / 5.15	68.27	19.05	26.97	34.93	3.05	13.49	40.86
MS3100E/F 20-*	1 1/4-18 NEF	15.88	2.39 / 5.15	69.85	19.05	29.36	38.10	3.05	16.67	48.00
MS3100E/F 22-*	1 3/8-18 NEF	15.88	2.39 / 5.15	69.85	19.05	31.75	41.28	3.05	16.86	48.00
MS3100E/F 24-*	1 1/2-18 NEF	15.88	2.39 / 5.15	75.41	19.05	34.93	44.45	3.73	19.84	55.11
MS3100E/F 28-*	1 3/4-18 NEF	15.88	2.39 / 5.15	76.98	19.05	39.67	50.80	3.73	23.42	55.11
MS3100E/F 32-*	2-18 UNS	15.88	3.18 / 9.11	76.98	19.05	44.45	57.15	4.39	29.36	67.46
MS3100E/F 36-*	2 1/4-16 UN	15.88	3.18 / 9.11	83.33	19.05	46.68	63.50	4.39	31.75	74.21

## Wall Mounting Receptacle

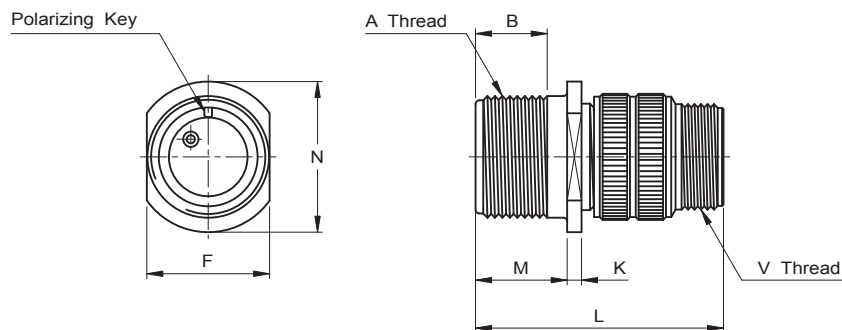
### MS3100 Class "R"



MIL-C-5015 Part no.	A Thread Class 2A	B min.	K min. / max.	L max.	M +0.79 - 0.00	R ±0.12	S ±0.79	T dia. +0.25 - 0.12	Z max.
MS3100R 10SL-*	5/8-24 UNF	9.53	1.93 / 3.96	46.68	14.28	18.26	25.40	3.05	28.57
MS3100R 12S-*	3/4-20 UNEF	9.53	1.93 / 3.96	46.68	14.28	20.62	27.79	3.05	28.57
MS3100R 12-*	3/4-20 UNEF	15.88	1.93 / 3.96	55.39	19.05	20.62	27.79	3.05	28.57
MS3100R 14S-*	7/8-20 UNEF	9.53	1.93 / 3.96	46.68	14.28	23.01	30.18	3.05	34.11
MS3100R 14-*	7/8-20 UNEF	15.88	1.93 / 3.96	55.39	19.05	23.01	30.18	3.05	34.11
MS3100R 16S-*	1-20 UNEF	9.53	1.93 / 3.96	46.68	14.28	24.61	32.54	3.05	37.69
MS3100R 16-*	1-20 UNEF	15.88	1.93 / 3.96	55.39	19.05	24.61	32.54	3.05	37.69
MS3100R 18-*	1 1/8-18 NEF	15.88	2.39 / 5.15	57.93	19.05	26.97	34.93	3.05	40.86
MS3100R 20-*	1 1/4-18 NEF	15.88	2.39 / 5.15	57.93	19.05	29.36	38.10	3.05	48.00
MS3100R 22-*	1 3/8-18 NEF	15.88	2.39 / 5.15	57.93	19.05	31.75	41.28	3.05	48.00
MS3100R 24-*	1 1/2-18 NEF	15.88	2.39 / 5.15	57.93	19.05	34.93	44.45	3.73	55.11
MS3100R 28-*	1 3/4-18 NEF	15.88	2.39 / 5.15	57.93	19.05	39.67	50.80	3.73	55.11
MS3100R 32-*	2-18 UNS	15.88	3.18 / 9.11	58.97	19.05	44.45	57.15	4.39	67.46
MS3100R 36-*	2 1/4-16 UN	15.88	3.18 / 9.11	58.97	19.05	49.23	63.50	4.39	74.21

## In-Line Receptacle

### MS3101 Class "A"

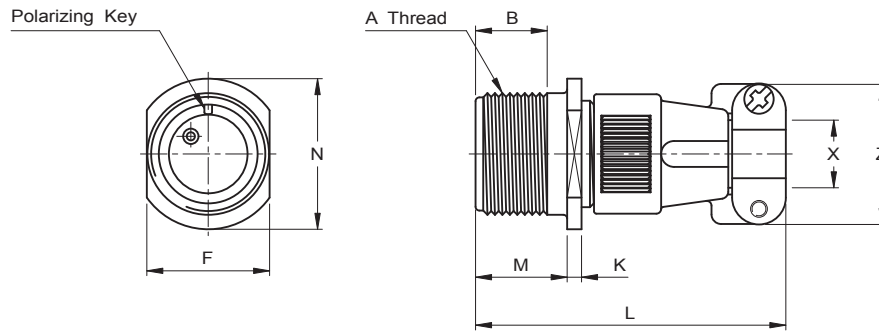


MIL-C-5015 Part no.	A Thread Class 2A	B min.	F ref.	K min. / max.	L max.	M +0.79 - 0.00	N dia. max.	V Thread Class 2A
MS3101A 10SL-*	5/8-24 UNF	9.53	16.2	1.58 / 3.96	38.88	14.28	24.61	5/8-24 NEF
MS3101A 12S-*	3/4-20 UNEF	9.53	19.9	1.58 / 3.96	42.87	14.28	26.97	5/8-24 NEF
MS3101A 12-*	3/4-20 UNEF	15.88	19.9	1.58 / 3.96	52.37	19.05	26.97	5/8-24 NEF
MS3101A 14S-*	7/8-20 UNEF	9.53	22.6	1.58 / 3.96	42.87	14.28	29.36	3/4-20 UNEF
MS3101A 14-*	7/8-20 UNEF	15.88	22.6	1.58 / 3.96	52.37	19.05	29.36	3/4-20 UNEF
MS3101A 16S-*	1-20 UNEF	9.53	25.7	1.58 / 3.96	42.87	14.28	31.75	7/8-20 UNEF
MS3101A 16-*	1-20 UNEF	15.88	25.7	1.58 / 3.96	52.37	19.05	31.75	7/8-20 UNEF
MS3101A 18-*	1 1/8-18 NEF	15.88	28.8	2.39 / 5.15	52.37	19.05	34.13	1-20 UNEF
MS3101A 20-*	1 1/4-18 NEF	15.88	32.0	2.39 / 5.15	55.57	19.05	37.31	1 3/16-18 NEF
MS3101A 22-*	1 3/8-18 NEF	15.88	35.2	2.39 / 5.15	55.57	19.05	40.48	1 3/16-18 NEF
MS3101A 24-*	1 1/2-18 NEF	15.88	38.4	2.39 / 5.15	58.72	19.05	43.66	1 7/16-18 NEF
MS3101A 28-*	1 3/4-18 NEF	15.88	44.8	2.39 / 5.15	58.72	19.05	50.01	1 7/16-18 NEF
MS3101A 32-*	2-18 UNS	15.88	51.2	3.18 / 9.11	61.92	19.05	56.36	1 3/4-18 UNS
MS3101A 36-*	2 1/4-16 UN	15.88	57.5	3.18 / 9.11	61.92	19.05	62.71	2-18 UNS

# MSCN / MIL-C-5015 Series

## In-Line Receptacle

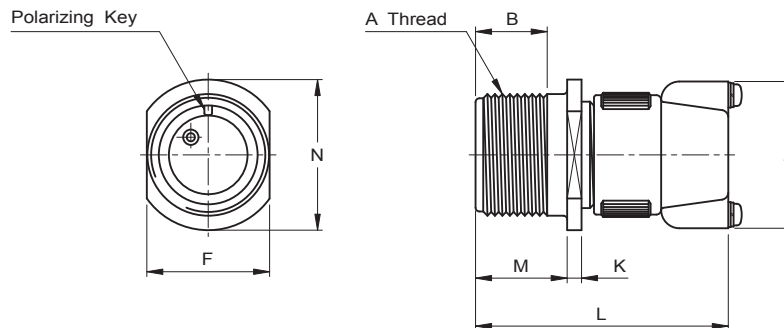
MS3101 Class "E", "F"



MIL-C-5015 Part no.	A Thread Class 2A	B min.	F ref.	K min. / max.	L max.	M +0.79 - 0.00	N dia. max.	X min. Cable-range	Z max.
MS3101E/F 10SL-*	5/8-24 UNF	9.53	16.2	1.58 / 3.96	57.15	14.28	24.61	7.14	28.57
MS3101E/F 12S-*	3/4-20 UNEF	9.53	19.9	1.58 / 3.96	57.15	14.28	26.97	7.14	28.57
MS3101E/F 12-*	3/4-20 UNEF	15.88	19.9	1.58 / 3.96	66.67	19.05	26.97	7.14	28.57
MS3101E/F 14S-*	7/8-20 UNEF	9.53	22.6	1.58 / 3.96	57.15	14.28	29.36	10.32	34.11
MS3101E/F 14-*	7/8-20 UNEF	15.88	22.6	1.58 / 3.96	66.67	19.05	29.36	10.32	34.11
MS3101E/F 16S-*	1-20 UNEF	9.53	25.7	1.58 / 3.96	57.15	14.28	31.75	12.70	37.69
MS3101E/F 16-*	1-20 UNEF	15.88	25.7	1.58 / 3.96	66.67	19.05	31.75	12.70	37.69
MS3101E/F 18-*	1 1/8-18 NEF	15.88	28.8	2.39 / 5.15	68.67	19.05	34.13	13.49	40.86
MS3101E/F 20-*	1 1/4-18 NEF	15.88	32.0	2.39 / 5.15	69.85	19.05	37.31	16.67	48.00
MS3101E/F 22-*	1 3/8-18 NEF	15.88	35.2	2.39 / 5.15	69.85	19.05	40.48	18.80	48.00
MS3101E/F 24-*	1 1/2-18 NEF	15.88	38.4	2.39 / 5.15	75.41	19.05	43.66	19.84	55.11
MS3101E/F 28-*	1 3/4-18 NEF	15.88	44.8	2.39 / 5.15	76.98	19.05	50.01	23.42	55.11
MS3101E/F 32-*	2-18 UNS	15.88	51.2	3.18 / 9.11	76.98	19.05	56.36	29.37	67.46
MS3101E/F 36-*	2 1/4-16 UN	15.88	57.5	3.18 / 9.11	83.33	19.05	62.71	31.75	74.21

## In-Line Receptacle

MS3101 Class "R"

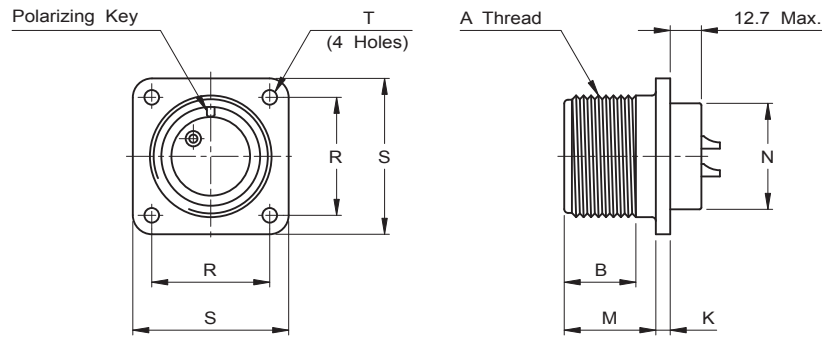


MIL-C-5015 Part no.	A Thread Class 2A	B min.	F ref.	K min. / max.	L max.	M +0.79 - 0.00	N dia. max.	Z max.
MS3101R 10SL-*	5/8-24 UNF	9.53	16.2	1.58 / 3.96	46.68	14.28	24.61	28.57
MS3101R 12S-*	3/4-20 UNEF	9.53	19.9	1.58 / 3.96	46.68	14.28	26.97	28.57
MS3101R 12-*	3/4-20 UNEF	15.88	19.9	1.58 / 3.96	55.39	19.05	26.97	28.57
MS3101R 14S-*	7/8-20 UNEF	9.53	22.6	1.58 / 3.96	46.68	14.28	29.36	34.11
MS3101R 14-*	7/8-20 UNEF	15.88	22.6	1.58 / 3.96	55.39	19.05	29.36	34.11
MS3101R 16S-*	1-20 UNEF	9.53	25.7	1.58 / 3.96	46.68	14.28	31.75	37.69
MS3101R 16-*	1-20 UNEF	15.88	25.7	1.58 / 3.96	55.39	19.05	31.75	37.69
MS3101R 18-*	1 1/8-18 NEF	15.88	28.8	2.39 / 5.15	57.93	19.05	34.13	40.86
MS3101R 20-*	1 1/4-18 NEF	15.88	32.0	2.39 / 5.15	57.93	19.05	37.31	48.00
MS3101R 22-*	1 3/8-18 NEF	15.88	35.2	2.39 / 5.15	57.93	19.05	40.48	48.00
MS3101R 24-*	1 1/2-18 NEF	15.88	38.4	2.39 / 5.15	57.93	19.05	43.66	55.11
MS3101R 28-*	1 3/4-18 NEF	15.88	44.8	2.39 / 5.15	57.93	19.05	50.01	55.11
MS3101R 32-*	2-18 UNS	15.88	51.2	3.18 / 9.11	58.97	19.05	56.36	67.46
MS3101R 36-*	2 1/4-16 UN	15.88	57.5	3.18 / 9.11	58.97	19.05	62.71	74.21



Box Mounting Receptacle

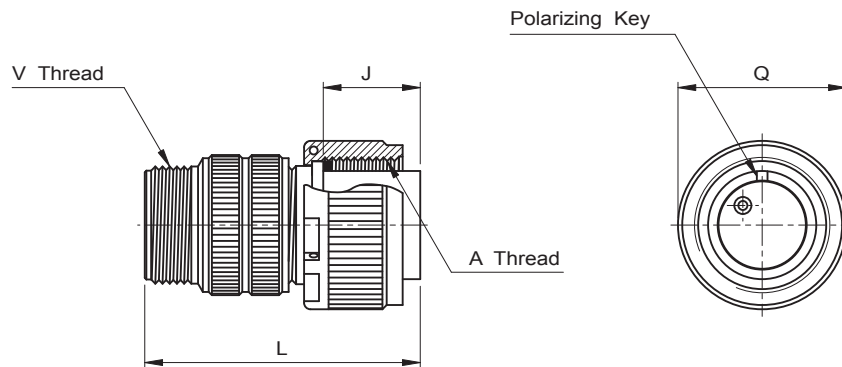
MS3102 Class "A", "E", "R"



MIL-C-5015 Part no.	A Thread Class 2A	B min.	K min. / max.	M +0.79 - 0.00	N dia. +0.00 - 4.77	R ±0.12	S ±0.79	T dia. +0.25 - 0.12
MS3102A/E/R 10SL-*	5/8-24 UNF	9.53	1.58 / 3.96	14.28	19.86	18.26	25.40	3.05
MS3102A/E/R 12S-*	3/4-20 UNEF	9.53	1.58 / 3.96	14.28	19.86	20.62	27.79	3.05
MS3102A/E/R 12-*	3/4-20 UNEF	15.88	1.58 / 3.96	19.05	19.86	20.62	27.79	3.05
MS3102A/E/R 14S-*	7/8-20 UNEF	9.53	1.58 / 3.96	14.28	23.01	23.01	30.18	3.05
MS3102A/E/R 14-*	7/8-20 UNEF	15.88	1.58 / 3.96	19.05	23.01	23.01	30.18	3.05
MS3102A/E/R 16S-*	1-20 UNEF	9.53	1.58 / 3.96	14.28	26.21	24.61	32.54	3.05
MS3102A/E/R 16-*	1-20 UNEF	15.88	1.58 / 3.96	19.05	26.21	24.61	32.54	3.05
MS3102A/E/R 18-*	1 1/8-18 NEF	15.88	2.39 / 5.15	19.05	29.36	26.97	34.93	3.05
MS3102A/E/R 20-*	1 1/4-18 NEF	15.88	2.39 / 5.15	19.05	32.56	29.36	38.10	3.05
MS3102A/E/R 22-*	1 3/8-18 NEF	15.88	2.39 / 5.15	19.05	35.71	31.75	41.28	3.05
MS3102A/E/R 24-*	1 1/2-18 NEF	15.88	2.39 / 5.15	20.63	38.91	34.93	44.45	3.73
MS3102A/E/R 28-*	1 3/4-18 NEF	15.88	2.39 / 5.15	20.63	45.26	39.67	50.80	3.73
MS3102A/E/R 32-*	2-18 UNS	15.88	3.18 / 9.11	22.23	51.61	44.45	57.15	4.39
MS3102A/E/R 36-*	2 1/4-16 UN	15.88	3.18 / 9.11	22.23	57.96	49.23	63.50	4.39

Straight Plug

MS3106 Class "A"

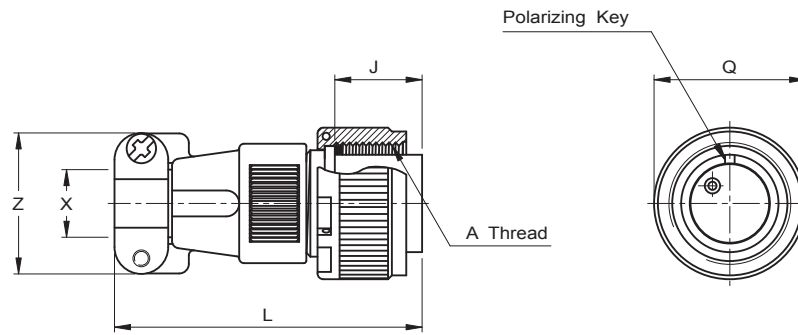


MIL-C-5015 Part no.	A Thread Class 2B	J ±0.12	L max.	Q dia. max.	V Thread Class 2A
MS3106A 10SL-*	5/8-24 UNF	13.49	38.88	24.61	5/8-24 NEF
MS3106A 12S-*	3/4-20 UNEF	13.49	42.87	26.97	5/8-24 NEF
MS3106A 12-*	3/4-20 UNEF	18.26	52.37	26.97	5/8-24 NEF
MS3106A 14S-*	7/8-20 UNEF	13.49	42.87	29.36	3/4-20 UNEF
MS3106A 14-*	7/8-20 UNEF	18.26	52.37	29.36	3/4-20 UNEF
MS3106A 16S-*	1-20 UNEF	13.49	42.87	31.75	7/8-20 UNEF
MS3106A 16-*	1-20 UNEF	18.26	52.37	31.75	7/8-20 UNEF
MS3106A 18-*	1 1/8-18 NEF	18.26	52.37	34.13	1-20 UNEF
MS3106A 20-*	1 1/4-18 NEF	18.26	55.57	37.31	1 3/16-18 NEF
MS3106A 22-*	1 3/8-18 NEF	18.26	55.57	40.48	1 3/16-18 NEF
MS3106A 24-*	1 1/2-18 NEF	18.26	58.72	43.66	1 7/16-18 NEF
MS3106A 28-*	1 3/4-18 NEF	18.26	58.72	50.01	1 7/16-18 NEF
MS3106A 32-*	2-18 UNS	18.26	61.92	56.36	1 3/4-18 UNS
MS3106A 36-*	2 1/4-16 UN	18.26	61.92	62.71	2-18 UNS

# MSCN / MIL-C-5015 Series

## Straight Plug

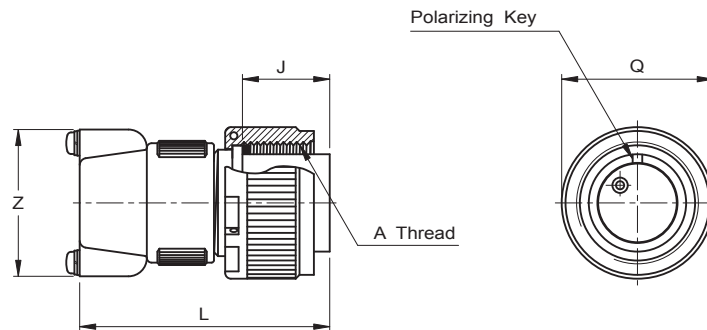
MS3106 Class "E", "F"



MIL-C-5015 Part no.	A Thread Class 2B	J $\pm 0.12$	L max.	Q dia. max.	X min. Cable range	Z max.
MS3106E/F 10SL-*	5/8-24 UNF	13.49	57.15	24.61	7.14	28.57
MS3106E/F 12S-*	3/4-20 UNEF	13.49	57.15	26.97	7.14	28.57
MS3106E/F 12-*	3/4-20 UNEF	18.26	66.67	26.97	7.14	28.57
MS3106E/F 14S-*	7/8-20 UNEF	13.49	57.15	29.36	10.32	34.11
MS3106E/F 14-*	7/8-20 UNEF	18.26	66.67	29.36	10.32	34.11
MS3106E/F 16S-*	1-20 UNEF	13.49	57.15	31.75	12.70	37.69
MS3106E/F 16-*	1-20 UNEF	18.26	66.67	31.75	12.70	37.69
MS3106E/F 18-*	1 1/8-18 NEF	18.26	68.27	34.13	13.49	40.86
MS3106E/F 20-*	1 1/4-18 NEF	18.26	69.85	37.31	16.67	48.00
MS3106E/F 22-*	1 3/8-18 NEF	18.26	69.85	40.48	18.80	48.00
MS3106E/F 24-*	1 1/2-18 NEF	18.26	75.41	43.66	19.84	55.11
MS3106E/F 28-*	1 3/4-18 NEF	18.26	76.98	50.01	23.42	55.11
MS3106E/F 32-*	2-18 UNS	18.26	76.98	56.36	29.37	67.46
MS3106E/F 36-*	2 1/4-16 UN	18.26	83.33	62.71	31.75	74.21

## Straight Plug

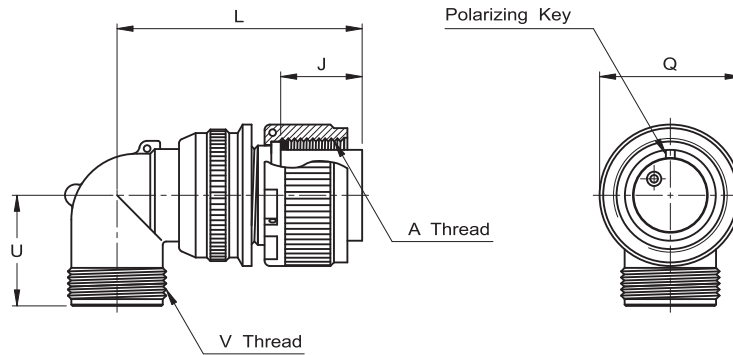
MS3106R Class "R"



MIL-C-5015 Part no.	A Thread Class 2B	J $\pm 0.12$	L max.	Q dia. max.	Z max.
MS3106R 10SL-*	5/8-24 UNF	13.49	46.68	24.61	28.57
MS3106R 12S-*	3/4-20 UNEF	13.49	46.68	26.97	28.57
MS3106R 12-*	3/4-20 UNEF	18.26	55.39	26.97	28.57
MS3106R 14S-*	7/8-20 UNEF	13.49	46.68	29.36	34.16
MS3106R 14-*	7/8-20 UNEF	18.26	55.39	29.36	34.16
MS3106R 16S-*	1-20 UNEF	13.49	46.68	31.75	37.69
MS3106R 16-*	1-20 UNEF	18.26	55.39	31.75	37.69
MS3106R 18-*	1 1/8-18 NEF	18.26	57.93	34.13	40.86
MS3106R 20-*	1 1/4-18 NEF	18.26	57.93	37.31	48.00
MS3106R 22-*	1 3/8-18 NEF	18.26	57.93	40.48	48.00
MS3106R 24-*	1 1/2-18 NEF	18.26	57.93	43.66	67.46
MS3106R 28-*	1 3/4-18 NEF	18.26	57.93	50.01	67.46
MS3106R 32-*	2-18 UNS	18.26	58.97	56.36	67.46
MS3106R 36-*	2 1/4-16 UN	18.26	58.97	62.71	74.21

Right Angle Plug

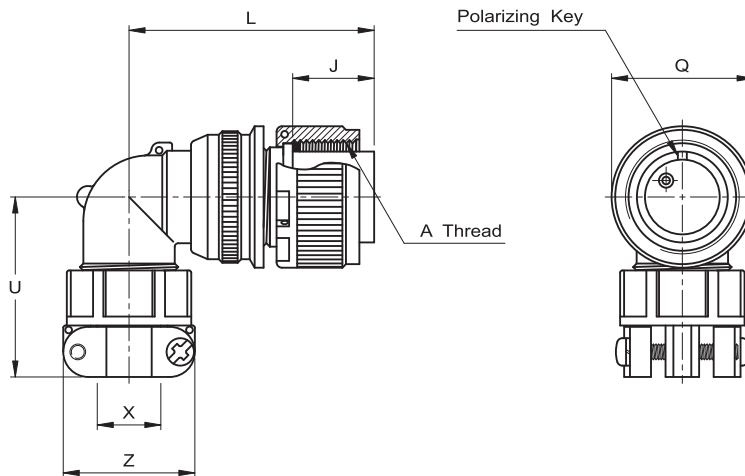
MS3108 Class "A"



MIL-C-5015 Part no.	A Thread Class 2B	J ±0.12	L max.	Q dia. max.	U max.	V Thread Class 2A
MS3108A 10SL-*	5/8-24 UNF	13.49	45.0	24.61	25.40	5/8-24 NEF
MS3108A 12S-*	3/4-20 UNEF	13.49	45.0	26.97	26.97	5/8-24 NEF
MS3108A 12-*	3/4-20 UNEF	18.26	54.0	26.97	26.97	5/8-24 NEF
MS3108A 14S-*	7/8-20 UNEF	13.49	47.0	29.36	28.57	3/4-20 UNEF
MS3108A 14-*	7/8-20 UNEF	18.26	55.0	29.36	28.57	3/4-20 UNEF
MS3108A 16S-*	1-20 UNEF	13.49	48.0	31.75	30.17	7/8-20 UNEF
MS3108A 16-*	1-20 UNEF	18.26	57.0	31.75	30.17	7/8-20 UNEF
MS3108A 18-*	1 1/8-18 NEF	18.26	58.0	34.13	33.32	1-20 UNEF
MS3108A 20-*	1 1/4-18 NEF	18.26	61.0	37.31	34.92	1 3/16-18 NEF
MS3108A 22-*	1 3/8-18 NEF	18.26	61.0	40.48	34.92	1 3/16-18 NEF
MS3108A 24-*	1 1/2-18 NEF	18.26	66.0	43.66	39.67	1 7/16-18 NEF
MS3108A 28-*	1 3/4-18 NEF	18.26	66.0	50.01	39.67	1 7/16-18 NEF
MS3108A 32-*	2-18 UNS	18.26	72.0	56.36	47.62	1 3/4-18 UNS
MS3108A 36-*	2 1/4-16 UN	18.26	77.0	62.71	52.37	2-18 UNS

Right Angle Plug

MS3108 Class "E", "R"



Note

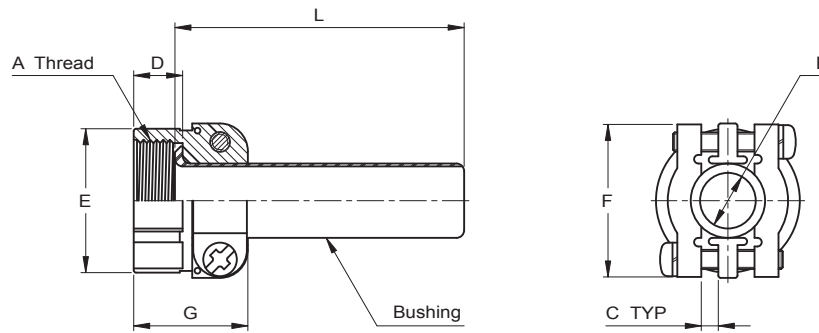
1. MS3108E/R : with wire grommet seal
2. MS3108E : without O-ring  
MS3108R : with O-ring
3. MS3108R : without cable clamp

MIL-C-5015 Part no.	A Thread Class 2B	J ±0.12	L max.	Q dia. max.	U max.	X min. Cable range	Z max.
MS3108E/R 10SL-*	5/8-24 UNF	13.49	45.0	24.61	42.0	7.14	28.57
MS3108E/R 12S-*	3/4-20 UNEF	13.49	45.0	26.97	42.0	7.14	28.57
MS3108E/R 12-*	3/4-20 UNEF	18.26	54.0	26.97	42.0	7.14	28.57
MS3108E/R 14S-*	7/8-20 UNEF	13.49	47.0	29.36	42.0	10.31	34.11
MS3108E/R 14-*	7/8-20 UNEF	18.26	55.0	29.36	42.0	10.31	34.11
MS3108E/R 16S-*	1-20 UNEF	13.49	48.0	31.75	45.0	12.70	37.69
MS3108E/R 16-*	1-20 UNEF	18.26	57.0	31.75	45.0	12.70	37.69
MS3108E/R 18-*	1 1/8-18 NEF	18.26	58.0	34.13	53.0	13.49	40.86
MS3108E/R 20-*	1 1/4-18 NEF	18.26	61.0	37.31	53.0	16.67	48.00
MS3108E/R 22-*	1 3/8-18 NEF	18.26	61.0	40.48	53.0	19.05	48.00
MS3108E/R 24-*	1 1/2-18 NEF	18.26	66.0	43.66	58.0	19.84	55.11
MS3108E/R 28-*	1 3/4-18 NEF	18.26	66.0	50.01	58.0	23.42	55.11
MS3108E/R 32-*	2-18 UNS	18.26	72.0	56.36	66.0	29.36	67.31
MS3108E/R 36-*	2 1/4-16 UN	18.26	77.0	62.71	69.0	31.75	74.21

# MSCN / MIL-C-5015 Series

## Cable Clamp

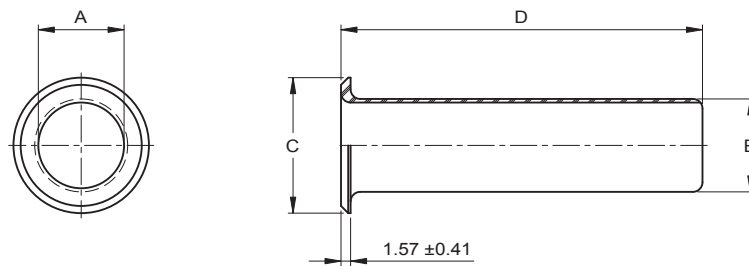
MS3057 - A Style



MIL-C-5015 Part no.	Connector Shell Size	A Thread Class 2B	B dia. $\pm 0.41$	C TYP $\pm 0.41$	D $\pm 0.41$	E dia. $\pm 0.79$	F $\pm 0.79$	G $\pm 0.79$	L $\pm 0.8$	Bushing (REF)
MS3057 - 4A	10SL, 12S & 12	5/8-24 NEF	7.92	1.57	10.31	20.62	22.23	20.62	69.8	MS3420 - 4
MS3057 - 6A	14S & 14	3/4-20 UNEF	11.10	1.98	10.31	24.61	26.97	22.22	66.7	MS3420 - 6
MS3057 - 8A	16S & 16	7/8-20 UNEF	14.27	2.77	10.31	27.79	29.36	23.82	63.5	MS3420 - 8
MS3057 - 10A	18	1-20 UNEF	15.88	3.16	10.31	30.18	31.75	23.82	60.3	MS3420 - 10
MS3057 - 12A	20, 22	1 3/16-18 NEF	19.05	3.96	10.31	34.47	37.31	23.82	57.2	MS3420 - 12
MS3057 - 16A	24, 28	1 7/16-18 NEF	23.80	4.78	10.31	42.06	42.88	26.18	54.0	MS3420 - 16
MS3057 - 20A	32	1 3/4-18 UNS	31.75	6.35	11.91	51.59	51.59	27.78	50.8	MS3420 - 20
MS3057 - 24A	36	2-18 UNS	34.92	7.54	13.49	56.36	57.94	29.36	47.6	MS3420 - 24

## Telescoping Bushing

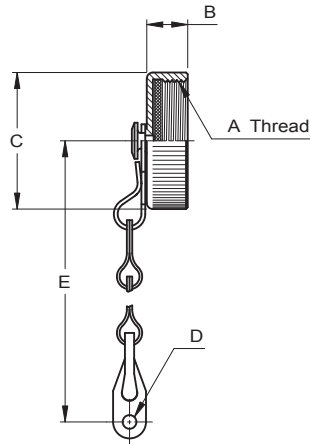
MS3420



MIL-C-5015 Part no.	Connector Shell Size	A dia. $\pm 0.41$	B dia. $\pm 0.41$	C dia. $\pm 0.41$	D $\pm 0.41$	Cable Clamp (REF)
MS3420 - 4	10SL, 12S & 12	5.59	7.67	12.83	69.85	MS3057 - 4A
MS3420 - 6	14S & 14	7.92	10.85	15.72	66.68	MS3057 - 6A
MS3420 - 8	16S & 16	11.10	14.02	18.90	63.50	MS3057 - 8A
MS3420 - 10	18	14.27	15.62	22.58	60.33	MS3057 - 10A
MS3420 - 12	20, 22	15.88	18.80	27.53	57.15	MS3057 - 12A
MS3420 - 16	24, 28	19.05	23.55	33.38	53.98	MS3057 - 16A
MS3420 - 20	32	23.80	31.50	40.59	50.80	MS3057 - 20A
MS3420 - 24	36	31.75	34.67	46.91	47.63	MS3057 - 24A

Protective Cover for Receptacle

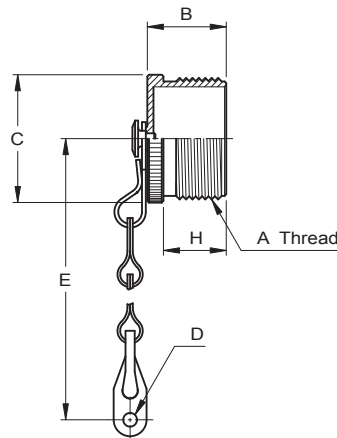
MS25043



MIL-C-5015 Part no.	Connector Shell Size	A Thread Class 2B	B max.	C dia. max.	D dia. +0.25 - 0.13	E ±21.0
MS25043 - 10D	10S, 10SL	5/8-24 UNF	11.91	20.70	3.56	101.6
MS25043 - 12D	12S, 12	3/4-20 UNEF	11.91	25.40	3.56	114.3
MS25043 - 14D	14S, 14	7/8-20 UNEF	11.91	28.58	3.56	114.3
MS25043 - 16D	16S, 16	1-20 UNEF	11.91	30.18	3.56	114.3
MS25043 - 18D	18	1 1/8-18 NEF	11.91	34.14	3.56	114.3
MS25043 - 20D	20	1 1/4-18 NEF	11.91	37.31	3.56	127.0
MS25043 - 22D	22	1 3/8-18 NEF	11.91	40.49	3.56	127.0
MS25043 - 24D	24	1 1/2-18 NEF	11.91	43.66	4.34	139.7
MS25043 - 28D	28	1 3/4-18 NEF	13.49	50.01	4.34	196.8
MS25043 - 32D	32	2-18 UNS	13.49	56.36	4.75	196.8
MS25043 - 36D	36	2 1/4-16 UN	13.49	62.71	4.75	196.8

Protective Cover for Plug

MS25042



MIL-C-5015 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.
MS25042 - 10D	10S, 10SL	5/8-24 UNF	16.66	17.45	3.96	101.6	9.65
MS25042 - 12D	12S, 12	3/4-20 UNEF	21.44	20.62	3.96	114.3	16.00
MS25042 - 14D	14S, 14	7/8-20 UNEF	21.44	23.80	3.96	114.3	16.00
MS25042 - 16D	16S, 16	1-20 UNEF	21.44	26.97	3.96	114.3	16.00
MS25042 - 18D	18	1 1/8-18 NEF	21.44	30.15	3.96	114.3	16.00
MS25042 - 20D	20	1 1/4-18 NEF	21.44	33.32	4.75	127.0	16.00
MS25042 - 22D	22	1 3/8-18 NEF	21.44	36.50	4.75	127.0	16.00
MS25042 - 24D	24	1 1/2-18 NEF	21.44	39.67	4.75	139.7	16.00
MS25042 - 28D	28	1 3/4-18 NEF	21.44	46.02	4.75	196.8	16.00
MS25042 - 32D	32	2-18 UNS	21.44	52.37	5.54	196.8	16.00
MS25042 - 36D	36	2 1/4-16 UN	21.44	58.72	5.54	196.8	16.00

**Notes**

