

MIL-C-5015 Series Connectors

Brief Introduction

- According to the structure of MIL-C-5015 series
- Medium to heavy weight cylindrical
- Durable, field-proven design
- Environmental resistant
- Resilient inserts
- Operating voltage to 3000 VAC (RMS) at sea level
- Threaded couplings
- Single key/keyway shell polarization



Technical Performance

Shell	Aluminum alloy
Shell Color	Olive drab cadmium or zinc plating
Insulator	PPE plastic, synthetic rubber
Contact	Copper alloy; Silver plating
Gasket&Grommet	Synthetic rubber
Ambient Temperature Range	-55°C ~ +125°C
Frequency	10~2000 Hz、147 m/s ²
Shock	490 m/s ²
Durability	≥500 times
Relative humidity	95±4% at 40°C
Insulation resistance	≥5000MΩ at ±25°C

Operating voltage & Test voltage

Service class	Operating voltage		Test voltage	Air Spacing	Cree page
	DC (V)	AC (V)	AC (V)	Nominal (Inches)	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

Rated current (+20°C)

Contact size	Contact resistance (mΩ)	Test current (A)	Potential drop (mV)
16	16	13	49
12	3	23	42
8	1	46	26
4	0.5	80	23
0	0.2	150	21

Contact current rating and wire size				
Contact size	Outside dia. of insulation			
	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

Contact insertion and withdraw force			
Contact size	KG		
	Maximum	Average	Minimum
16 #	1.36	0.95	0.11
12 #	2.26	1.58	0.22
8 #	4.53	3.17	0.34
4 #	6.80	4.76	0.45
0 #	9.97	6.35	0.90

Pics of Plug and Receptacle



How To Order

MS 3100 A 20 - 27 P W
 ① ② ③ ④ ⑤ ⑥ ⑦

①MS—Series Prefix

②Type: 3100-wall mounting receptacle

3101-Cable connecting receptacle

3102-Box mounting receptacle

3106- Straight plug

3108- Elbow plug

③Service class:A- Solid shell for general, non-environmental applications

L&Y Electronics

Web:www.lyelectronics.com
 Email:info@lyelectronics.com

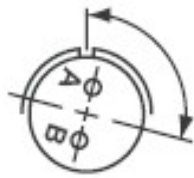
- B-Split Shell,solder contacts and non-pressurized
- C –Solid shell for pressurized applications
- E –Environmental resisting
- F –Environmental resisting with clamp
- R –Solder contacts with grommet seal and without clamp

- ④Shell size :08-10-12-14-16-18-20-22-24-28-32-36
- ⑤Insert arrangement: Please see the figure of contact arrangement
- ⑥Contact :P-pin contact ,S-socket contact
- ⑦Key: N- normal key;W、 X、 Y、 Z- alternative key

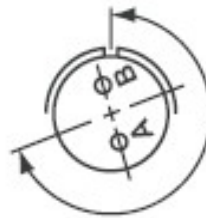
Contact Arrangements



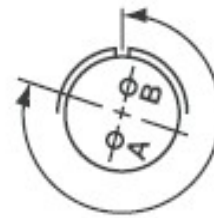
W



X



Y



Z

Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
10S-2	A	1					1				
10SL-3	A	3					3			215	290
12S-3	A	2					2	70	145	215	290
12S-4	D	1					1				
12-5	D	1				1					
14S-2	Instrument	4					4		120	240	
14S-5	Instrument	5					5		110		
14S-6	Instrument	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

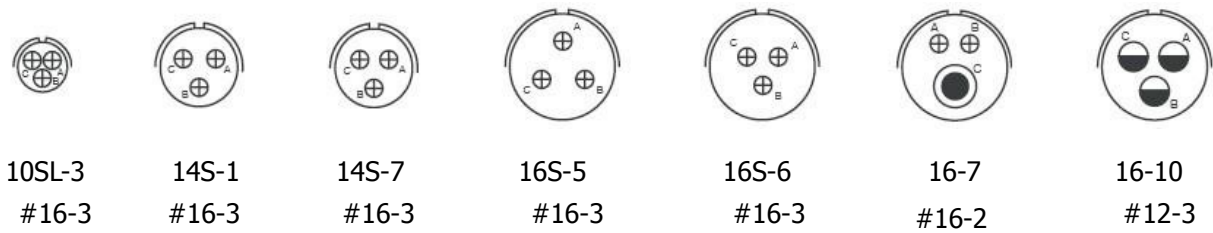
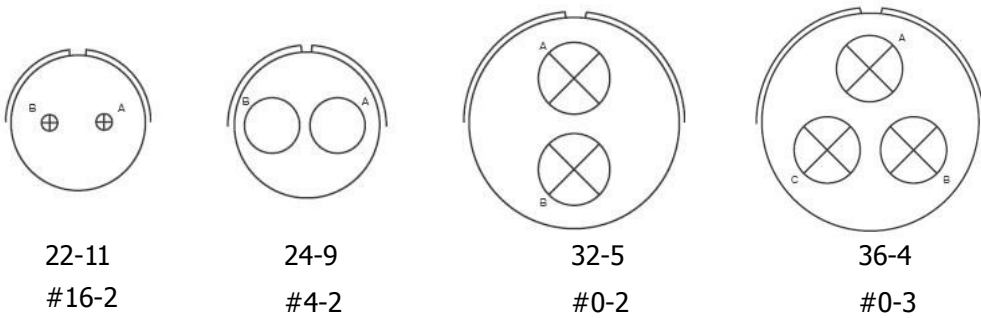
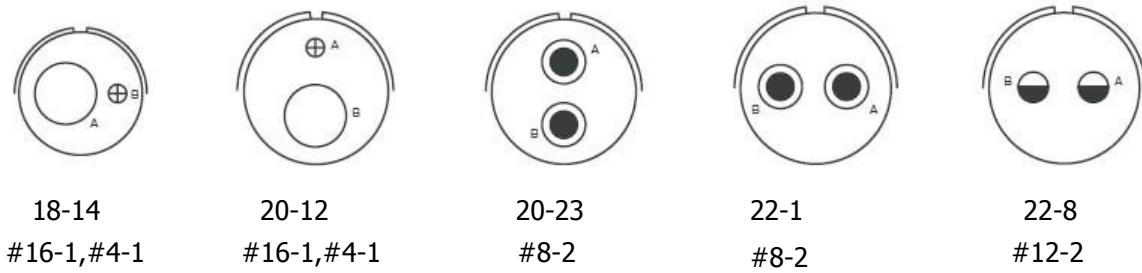
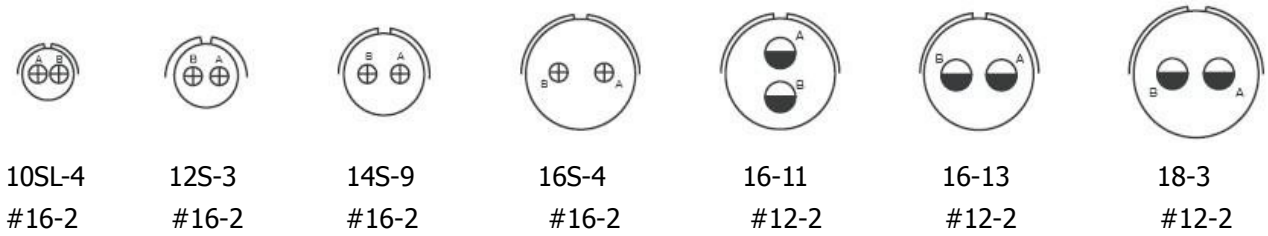
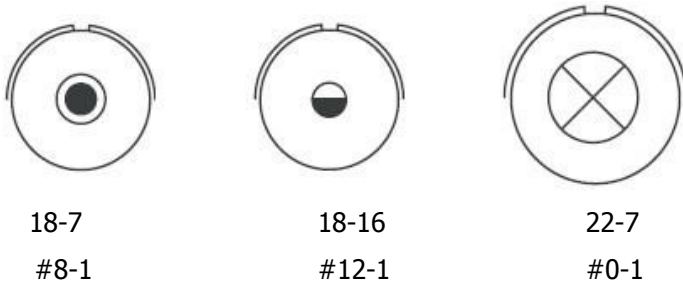
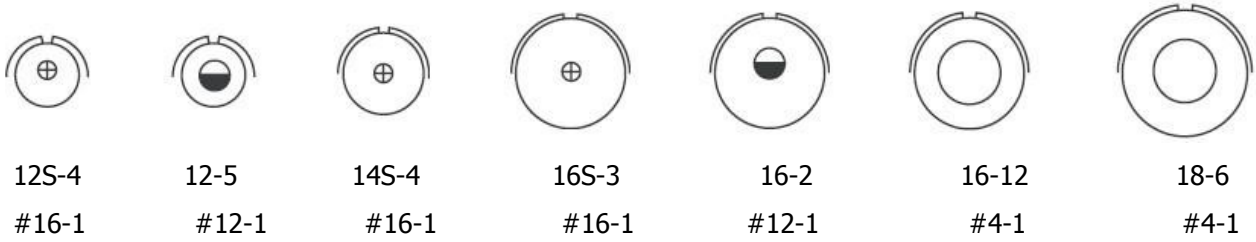
Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
16S-3	B	1					1				
16S-4	D	2					2	35	110	250	325
16S-5	A	3					3	70	145	215	290
16S-6	A	3					3	90	180	270	
16S-8	A	5					5		170	265	
16-2	E	1				1					
16-7	A	3			1		2	80	110	250	320
16-9	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		2		35	110	250	325
16-13	A	2					10	70	145	215	290
18-1	Instrument	10				2		35	110	250	325
18-3	D	2				4	4	35	110	250	325
18-4	D	4									
18-5	D	3				2	1	80	110	250	280
18-6	D	1									
18-7	B	1			1						
18-8	A	8				1	7	70			290
18-9	Instrument	7				2	5	80	110	250	280
18-10	A	4				4			120	240	
18-11	A	5					5		170	200	
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	

Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
18-16	C	1				1					
18-22	D	3					3	70	145	215	290
20-2	D	1	1								
20-3	D	3				3		70	145	215	290
20-4	D	4				4		45	110	250	
20-7	D/A	8					8	80	110	250	280
20-8	Instrument	6			2		4	80	110	250	280
20-9	D/A	8				1	7	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					
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				
22-2	D	3			3			70	145	215	290
22-4	A	4			2	2	2	35	110	250	325
22-5	D	6				2	4	35	110	250	325
22-6	D	3			2		1				

Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
22-7	E	1	1								
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			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	
22-27	D/A	9			1		8	80		250	280
22-28	A	7				7		80			280
22-36	A	8				8		90		270	
24-2	D	7				7		80			280
24-4	D	4	1				3	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
24-10	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	A	5		2		3		80	110	250	280

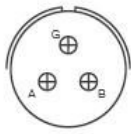
Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
24-20	D	11				2	9	80	110	250	280
24-21	D	10			1		9	80	110	250	280
24-22	D	4			4			45	110	250	
24-27	E	7					7	80			
24-28	Instrument	24					24	80	110	250	280
24-80	Instrument	23					23	35	145	240	300
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	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

Insert arrangement	Rank	Number of contacts	Contact specification					Revolving angle			
			0	4	8	12	16	W	X	Y	Z
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
35-7	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

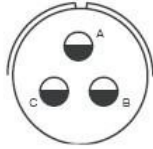




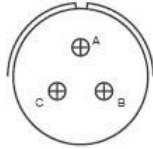
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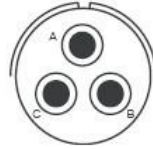
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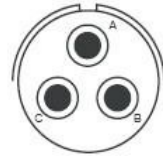
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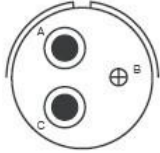
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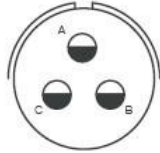
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#8-3



22-2
#8-3



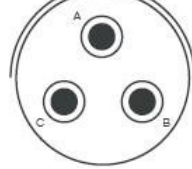
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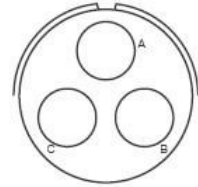
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28-3
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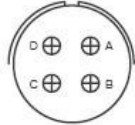
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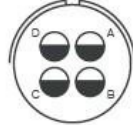
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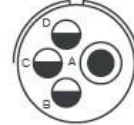
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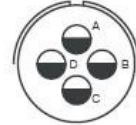
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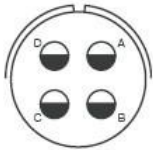
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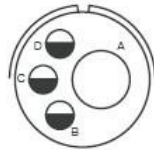
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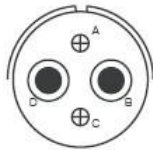
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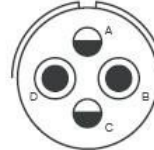
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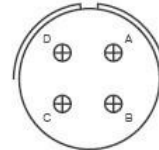
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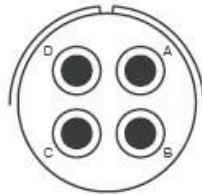
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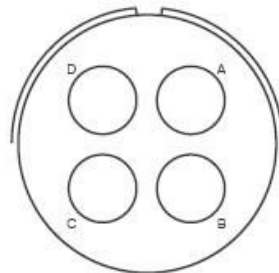
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22-22
#8-4



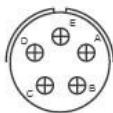
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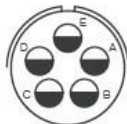
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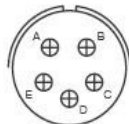
14S-5
#16-5



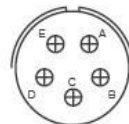
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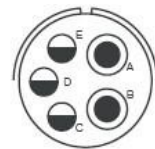
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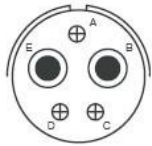
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#16-5



18-29
#16-5



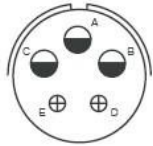
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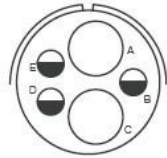
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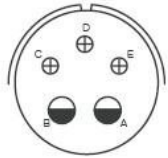
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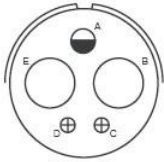
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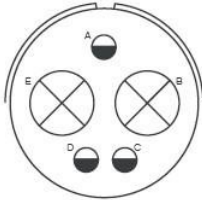
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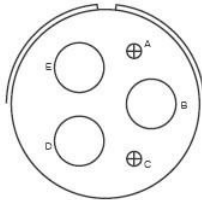
24-17
#16-3, #12-2



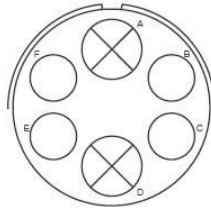
28-5
#16-2, #12-1, #4-2



32-1
#12-3, #0-2



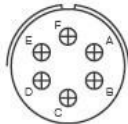
32-2
#16-2, #4-3



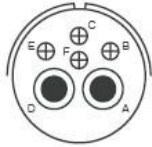
36-6
#4-4, #0-2



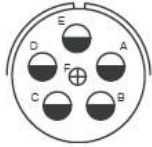
14S-6
#16-6



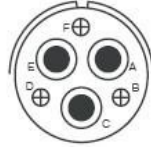
18-12
#16-6



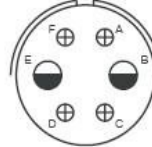
20-8
#16-4, #8-2



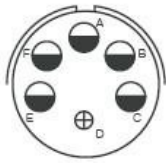
20-17
#16-1, #12-5



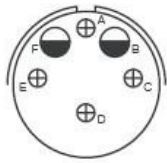
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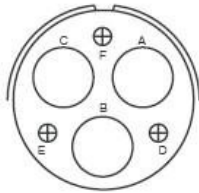
22-5
#16-4, #12-2



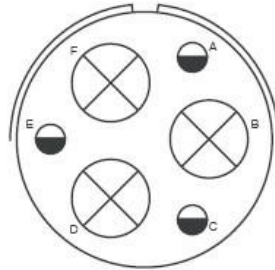
22-15
#16-1, #12-2



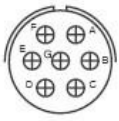
22-24
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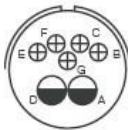
28-22
#16-3, #4-3



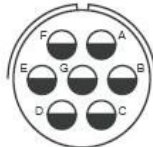
36-3
#12-3, #0-3



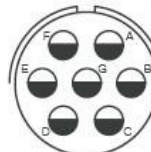
16S-1
#16-7



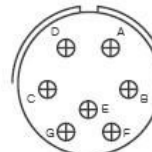
18-9
#16-5, #12-2



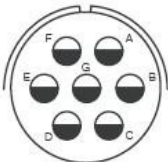
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#12-7



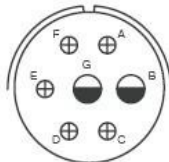
22-28
#12-7



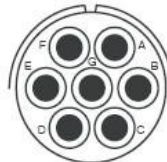
22-33
#16-7



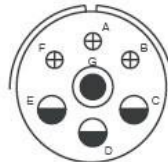
24-2
#12-7



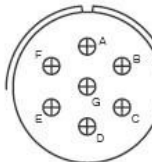
24-3
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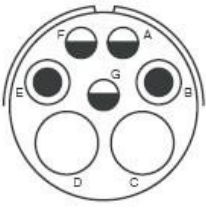
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#8-7



24-16
#16-3, #12-3, #8-1

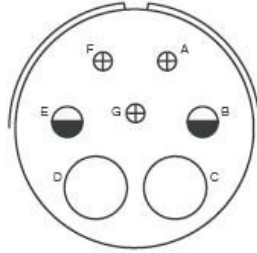


24-27
#16-7



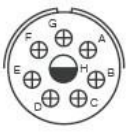
28-10

#12-3, #8-2, #4-2



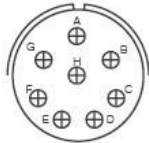
32-10

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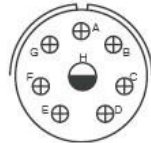
18-8

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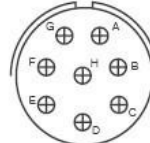
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#16-8



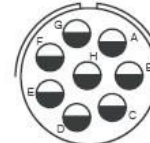
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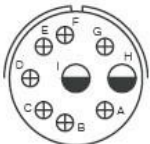
22-18

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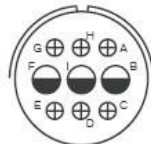
22-23

#12-8



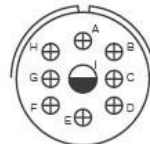
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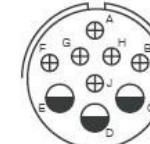
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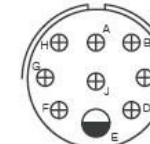
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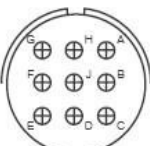
22-16

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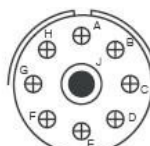
22-17

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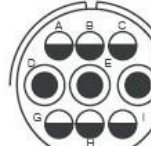
22-20

#16-9



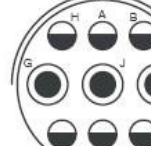
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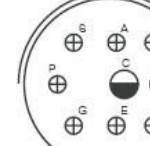
24-11

#12-6, #8-3



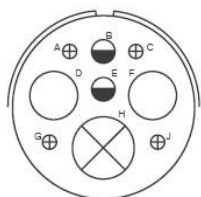
28-1

#12-6, #8-3



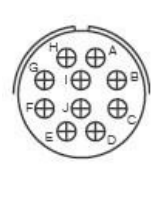
28-4

#16-7, #12-2



32-3

#16-4, #12-2, #4-2, #0-1



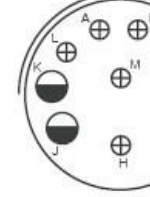
18-1

#16-10



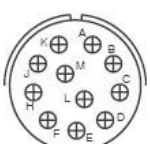
24-21

#16-9, #8-1



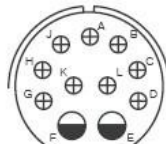
28-19

#16-6, #12-4



20-33

#16-11



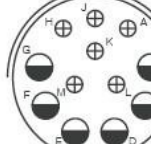
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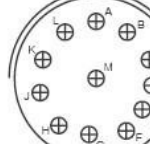
28-8

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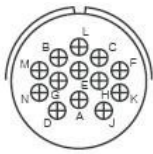
28-9

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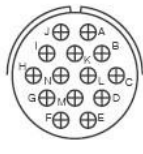


28-18

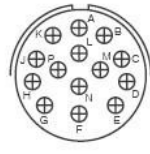
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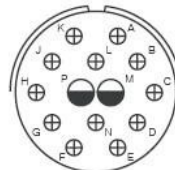
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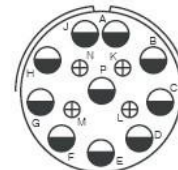
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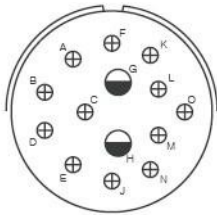
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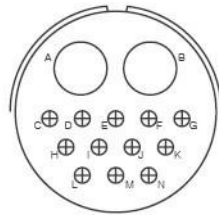
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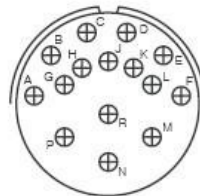
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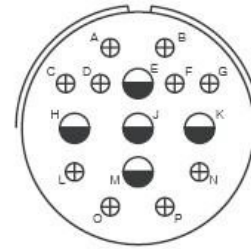
32-4
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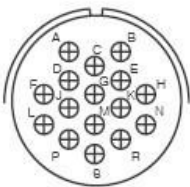
32-9
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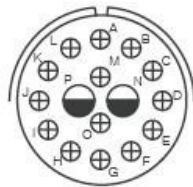
28-17
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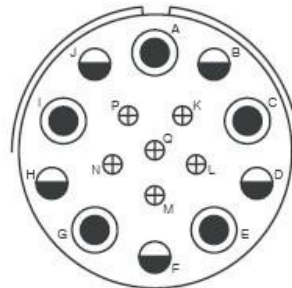
32-12
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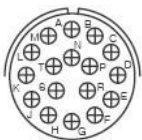
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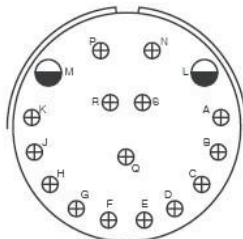
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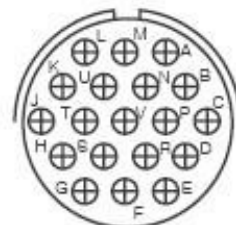
36-14
#16-6, #12-5, #8-5



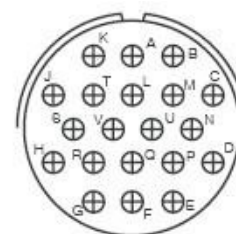
20-29
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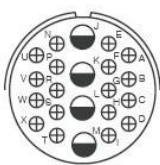
36-13
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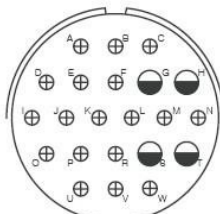
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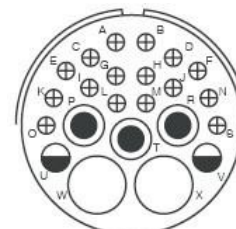
18-16
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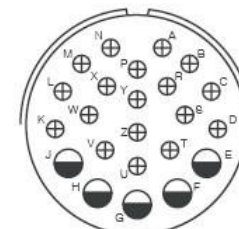
28-16
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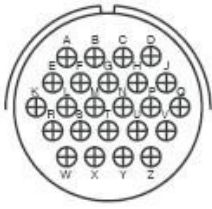
36-1
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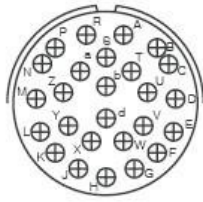
32-6
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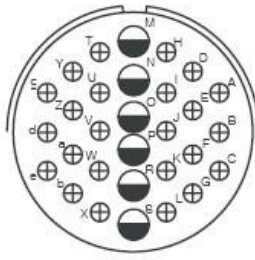
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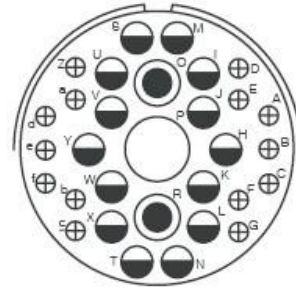
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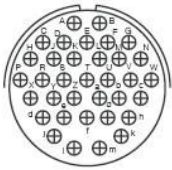
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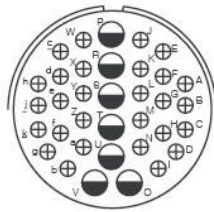
32-8
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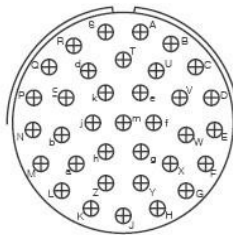
36-9
#16-14, #12-14, #8-2, #4-1



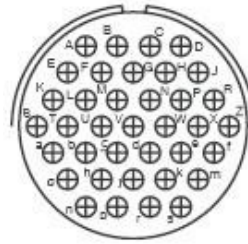
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#16-35



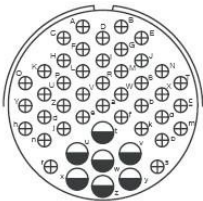
32-7
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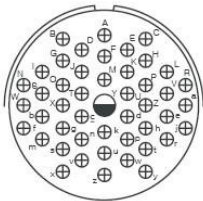
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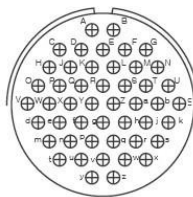
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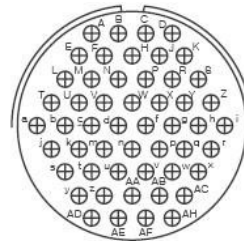
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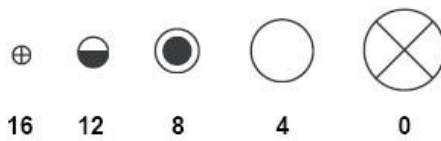
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36-10
#16-48

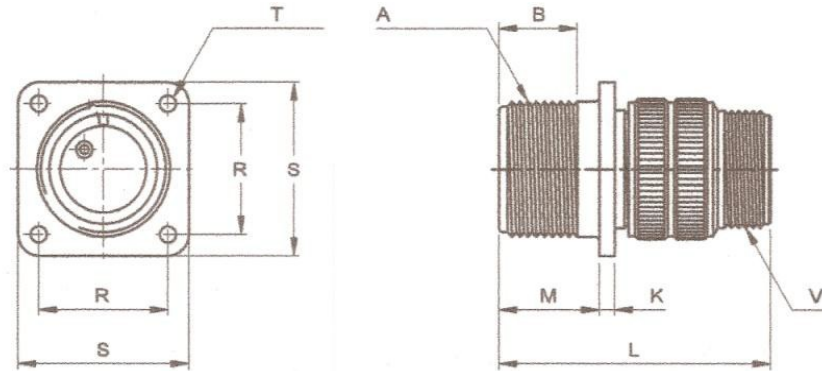


36-52
#16-52



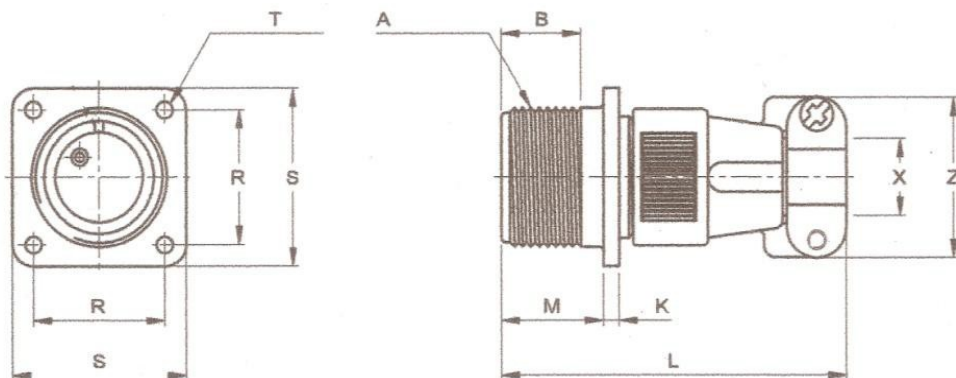
Product Outline Dimensions

MS3100 Class A



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+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	5/8-24NEF
MS3100A 12S	3/4-20 UNEF	9.53	1.58/3.96	42.87	14.28	20.62	27.79	3.05	5/8-24NEF
MS3100A 12	3/4-20 UNEF	15.88	1.58/3.96	52.37	19.05	20.62	27.79	3.05	5/8-24NEF
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 1/4-16UN	15.88	3.18/9.11	61.92	22.23	49.23	63.50	4.39	2-18 UNS

MS3100 Class E & F

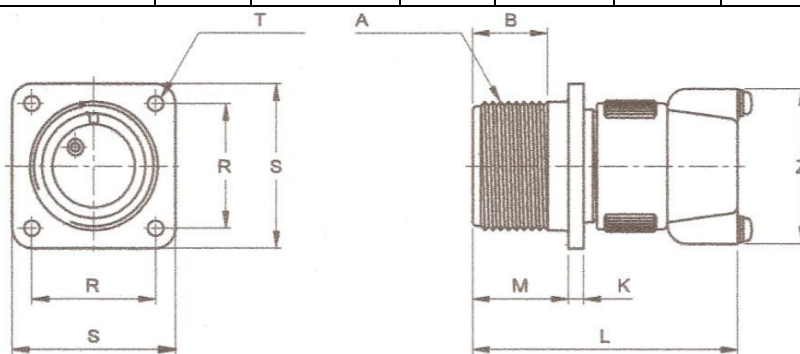


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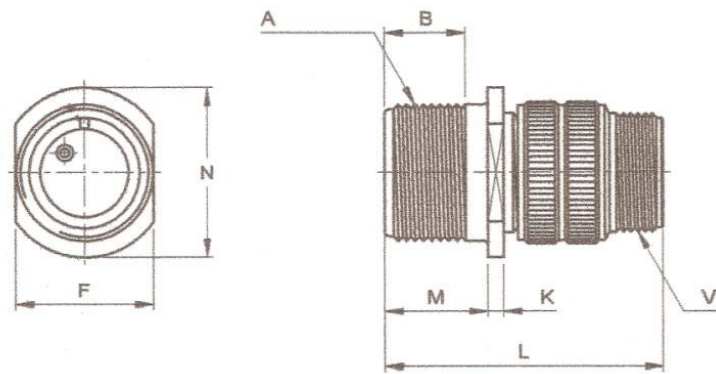
MS3100 Class R

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+0.25 /-0.12	X Min	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



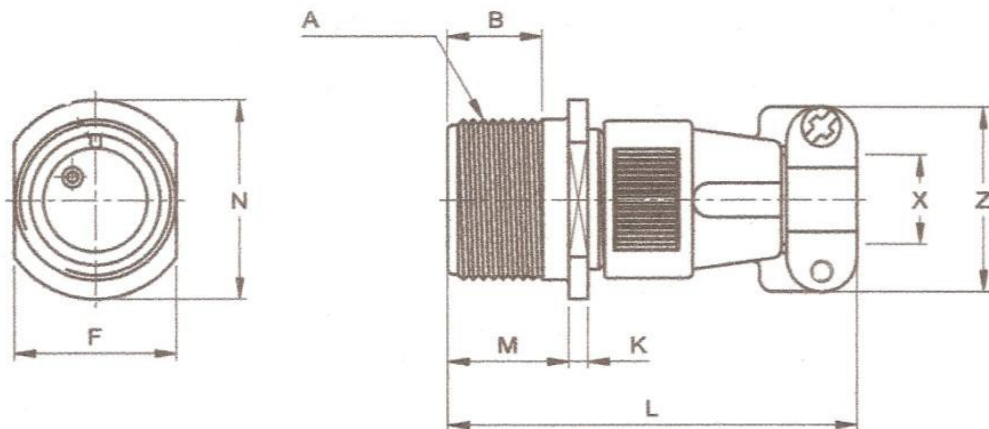
Part No.	A Thread Class 2A	B Min	K Min/Max	L Max	M+0.79 /-0.00	R±0.12	S±0.79	T+0.25 /-0.12	Z Max.
MS3100R 10SL	5/8-24 UNF	9.53	1.93/3.96	46.68	14.28	18.26	25.40	3.05	28.57
MS3100R 12S	3/4-20 UNEF	9.53	1.93/3.96	46.68	14.28	20.62	27.79	3.05	28.57
MS3100R 12	3/4-20 UNEF	15.88	1.93/3.96	55.39	19.05	20.62	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 3/4-18NEF	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

MS3101 Class A



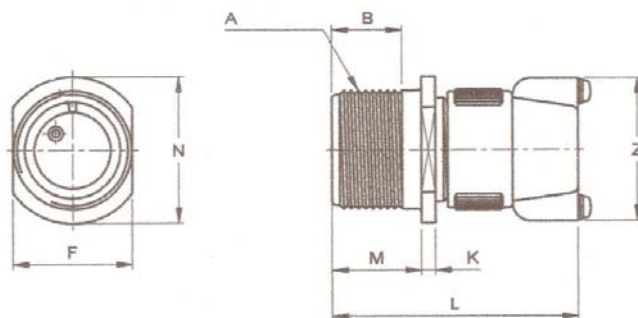
Part No.	A Thread Class 2A	B Min	F Ref	K Min /Max	L Max	M+0.79 /-0.00	N Max	V Thread Class 2A
MS3101A 10SL	5/8-24 UNF	9.53	16.2	1.58/3.96	38.88	14.28	24.61	5/8-24 NEF
MS3101A 12S	3/4-20 UNEF	9.53	19.9	1.58/3.96	42.87	14.28	26.97	5/8-24 NEF
MS3101A 12	3/4-20 UNEF	15.88	19.9	1.58/3.96	52.37	19.05	26.97	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

MS3101 Class E & F



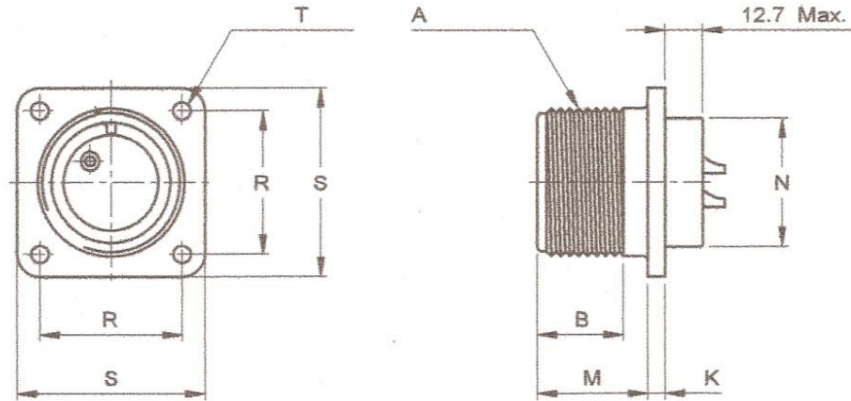
Part No.	A Thread Class 2A	B Min	F Ref	K Min/Max	L Max	M+0.79 /-0.00	N Max	X Min	Z Max
MS3101E/F 10SL	5/8-24 UNF	9.53	16.2	1.58/3.96	57.15	14.28	24.61	7.14	28.57
MS3101E/F 12S	3/4-20 UNEF	9.53	19.9	1.58/3.96	57.15	14.28	26.97	7.14	28.57
MS3101E/F 12	3/4-20 UNEF	15.88	19.9	1.58/3.96	66.67	19.05	26.97	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

MS3101 Class R



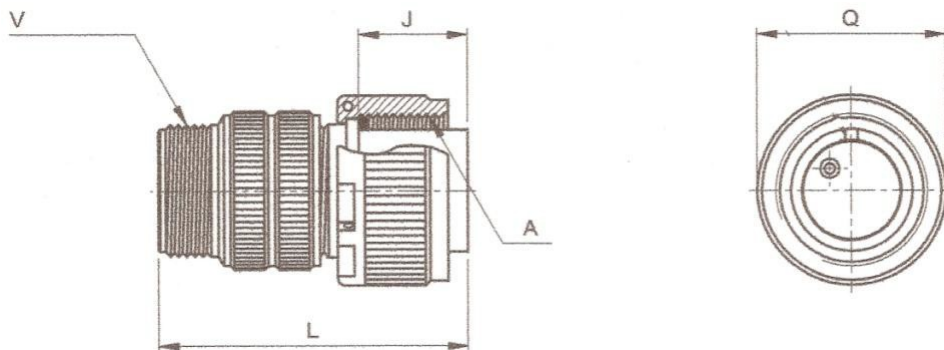
Part No.	A Thread Class 2A	B Min	F Ref	K Min/Max	L Max	M+0.79 /-0.00	N Max	Z Max
MS3101R 10SL	5/8-24 UNF	9.53	16.2	1.58/3.96	46.68	14.28	24.61	28.57
MS3101R 12S	3/4-20 UNEF	9.53	19.9	1.58/3.96	46.68	14.28	26.97	28.57
MS3101R 12	3/4-20 UNEF	15.88	19.9	1.58/3.96	55.39	19.05	26.97	28.57
MS3101R 14S	7/8-20 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

MS3102 Class A, E & R



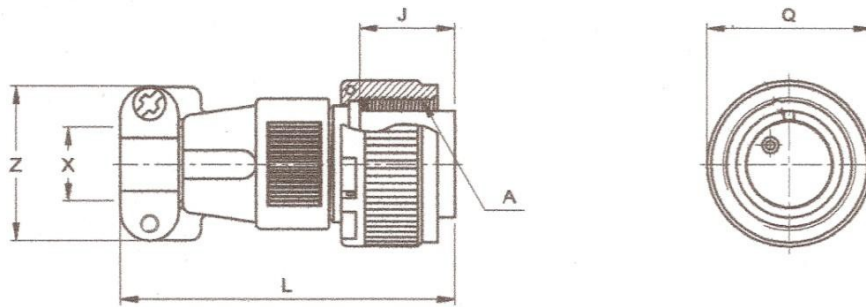
Part No.	A Thread Class 2A	B Min	K Min/Max	M+0.79 /-0.00	N+0.00 /-4.77	R±0.12	S±0.79	T+0.25 /-0.12
MS3102A/E/R 10SL	5/8-24 UNF	9.53	1.58/3.96	14.28	19.86	18.26	25.40	3.05
MS3102A/E/R 12S	3/4-20 UNEF	9.53	1.58/3.96	14.28	19.86	20.62	27.79	3.05
MS3102A/E/R 12	3/4-20 UNEF	15.88	1.58/3.96	19.05	19.86	20.62	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

MS3106 Class A



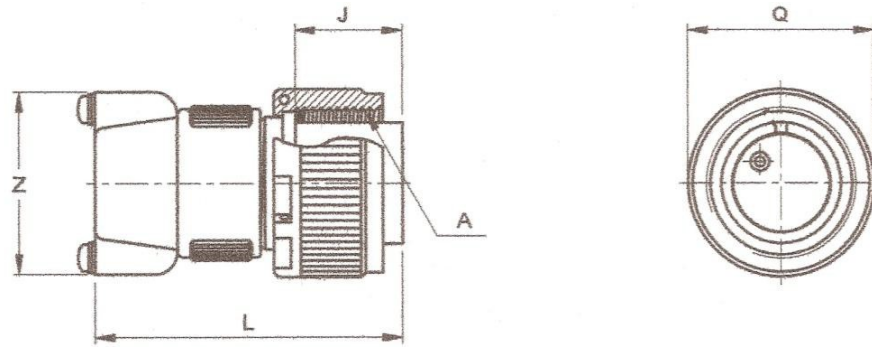
Part No.	A Thread Class 2A	J±0.12	L max.	Q max.	V Thread Class 2A
MS3106A 10SL	5/8-24 UNF	13.49	38.88	24.61	5/8-24 NEF
MS3106A 12S	3/4-20 UNEF	13.49	42.87	26.97	5/8-24 NEF
MS3106A 12	3/4-20 UNEF	18.26	52.37	26.97	5/8-24 NEF
MS3106A 14S	7/8-20 UNEF	13.49	42.87	29.36	3/4-20 UNEF
MS3106A 14	7/8-20 UNEF	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

MS3106 Class E & F



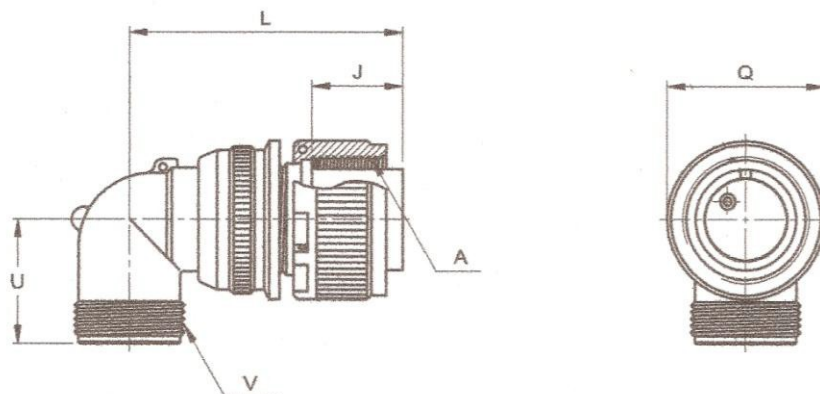
Part No.	A Thread Class 2A	J±0.12	L (Max)	Q (Max)	X (Min)	Z (Max)
MS3106E/F 10SL	5/8-24 UNF	13.49	57.15	24.61	7.14	28.57
MS3106E/F 12S	3/4-20 UNEF	13.49	57.15	26.97	7.14	28.57
MS3106E/F 12	3/4-20 UNEF	18.26	66.67	26.97	7.14	28.57
MS3106E/F 14S	7/8-20 UNEF	13.49	57.15	29.36	10.32	34.11
MS3106E/F 14	7/8-20 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

MS3106 Class R



Part No.	A Thread Class 2A	J±0.12	L (Max)	Q (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

MS3108 Class A

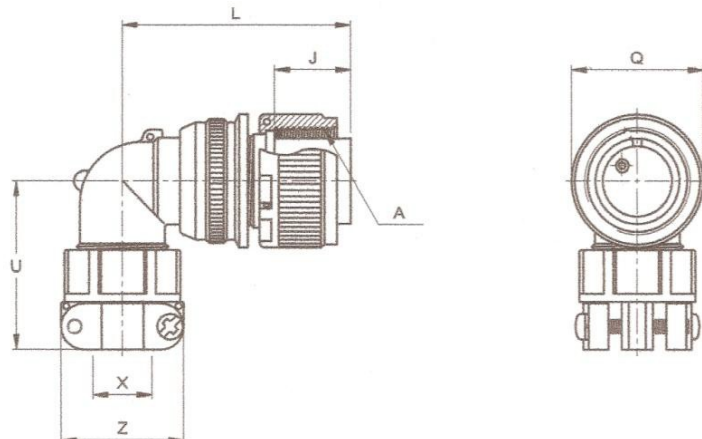


Part No.	A Thread Class 2A	J±0.12	L (max)	Q (max)	U (max)	V Thread Class 2A
MS3108A 10SL	5/8-24 UNF	13.49	45.0	24.61	25.40	5/8-24 UNF
MS3108A 12S	3/4-20 UNEF	13.49	45.0	26.97	26.97	5/8-24 UNF
MS3108A 12	3/4-20 UNEF	18.26	54.0	26.97	26.97	5/8-24 UNF
MS3108A 14S	7/8-20 UNEF	13.49	47.0	29.36	28.57	3/4-20 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

MS3108 Class E & R

Note:

- MS3108E/R: with grommet
- MS3108E: without O ring
MS3108R:
with O ring
- MS3108R: without cable clamp

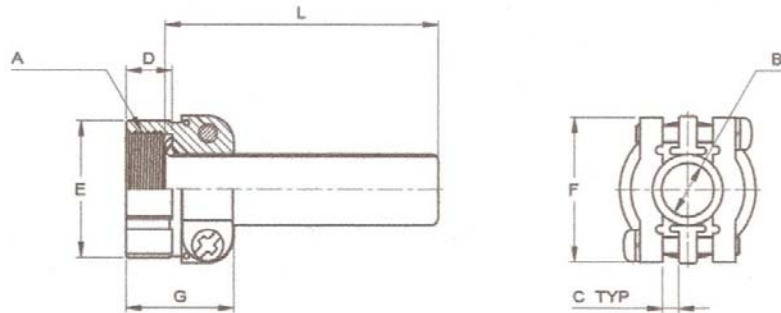


Part No.	A Thread Class 2A	J±0.12	L (Max)	Q (Max)	U (Max)	X (Min)	Z (Max)
MS3108E/R 10SL	5/8-24 UNF	13.49	45.0	24.61	42.0	7.14	28.57
MS3108E/R 12S	3/4-20 UNEF	13.49	45.0	26.97	42.0	7.14	28.57
MS3108E/R 12	3/4-20 UNEF	18.26	54.0	26.97	42.0	7.14	28.57
MS3108E/R 14S	7/8-20 UNEF	13.49	47.0	29.36	42.0	10.31	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

Accessories

Cable clamp

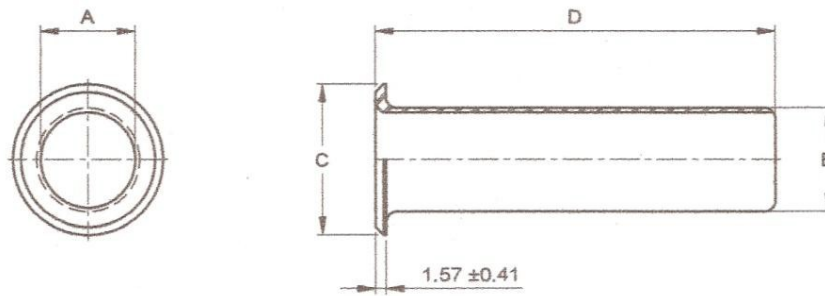
MS3057 - A



Part No.	Shell size	A Thread Class 2A	B ±0.41	C TYP ±0.41	D ±0.41	E ±0.79	F ±0.79	G ±0.79	L ±0.8	Bushing Ref.
MS3057-4A	10SL, 12S, 12	5/8-24 UNF	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

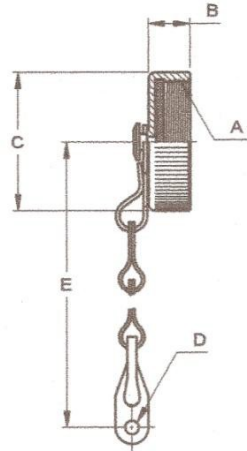
MS3420



Part No.	Shell size	A±0.41	B±0.41	C±0.41	D±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

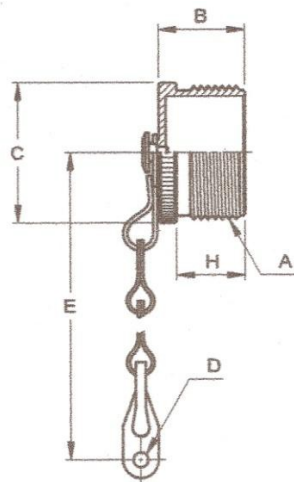
Dust-cap

MS25043 (For receptacle)



Part No.	Shell size	A Thread Class 2A	B (Max)	C (Max)	D+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

MS25042 (For plug)



Part No.	Shell size	A Thread Class 2A	B(Max)	C(Max)	D+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