

BOX MOUNTING RECEPTACLE MS 3102 E / MS 3102 R

MS 3102 E and MS 3102 R box mounting receptacles are used in junction boxes or as an integral part of equipment. These connectors are identical in construction and will mate with 3106 and 3108 styles. For new equipment customers should specify MS 3102 R.



STRAIGHT CABLE CONNECTOR INTEGRAL CABLE CLAMP MS 3106 E / MS 3106 F

MS 3106 E and MS 3106 F straight cable connectors mate with 3100, 3101 and 3102 styles. MS 3106 F is identical to MS 3106 except for 'O' ring under the coupling nut, thus effecting a seal. For new equipment customers should specify MS 3106 F.

90° ANGLE CONNECTOR MS 3108 E / MS 3108 F

MS 3108 E 90° cable connectors (with 'O' ring seal with cable clamp) are used where there is limited space and where wires must be brought at abrupt angles. This connector will mate with 3100, 3101 and 3102 styles. MS 3108 F is identical to MS 3108 E except for 'O' ring under the coupling nut.



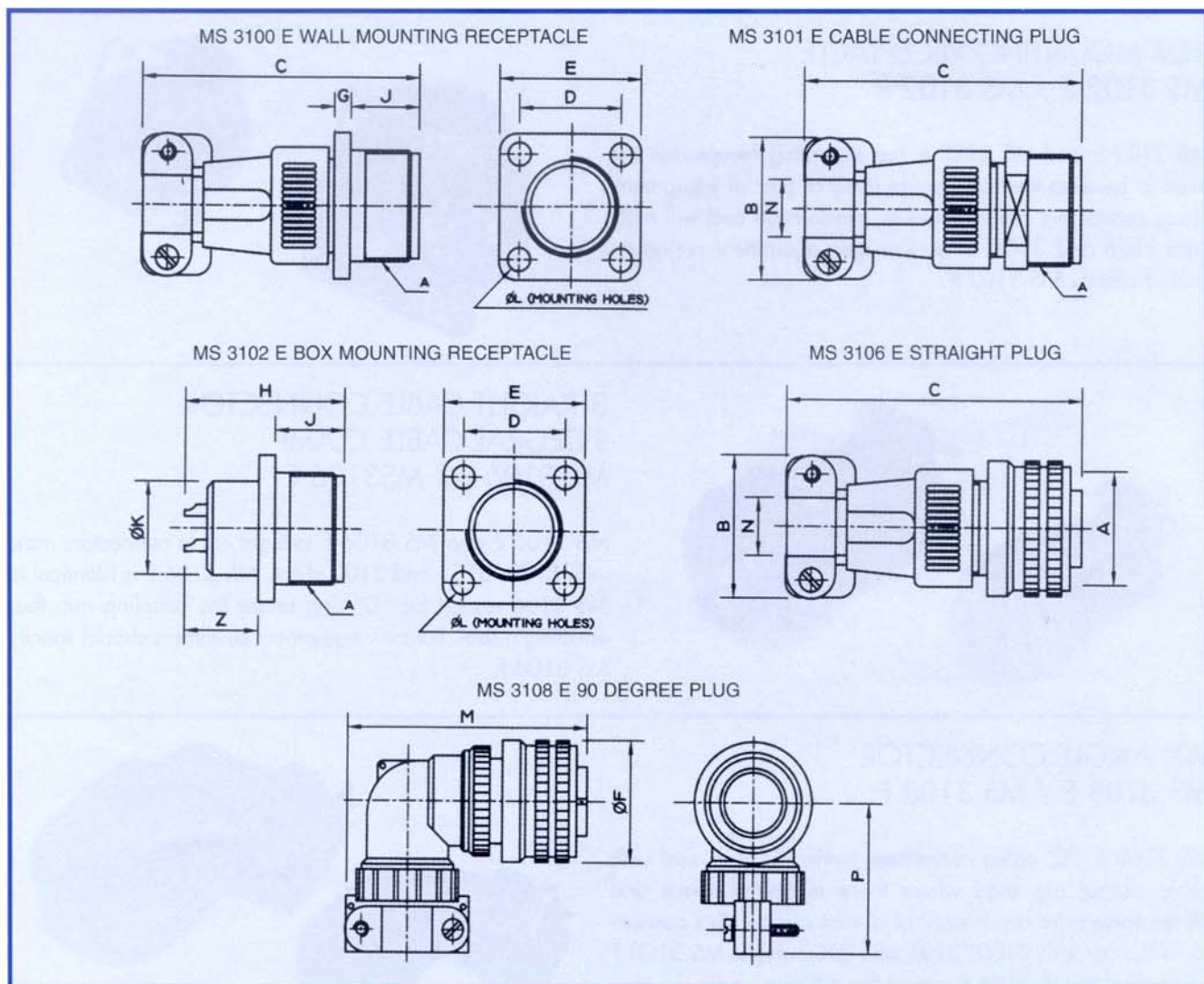
WALL MOUNTING RECEPTACLE WITH INTEGRAL CABLE CLAMP MS 3100 E / MS 3100 F

MS 3100 E or MS 3100 F wall mounting receptacles are used to carry wires through walls or bulkheads or to provide a means of disconnection at a bulkhead. MS 3100 E or MS 3100 F receptacles mate with 3106 and 3108 styles. For new equipment customers should specify MS 3100 F.

CABLE CONNECTOR WITH INTEGRAL CABLE CLAMP MS 3101 E / MS 3101 F

MS 3101 E or MS 3101 F cable connectors are used for cable extension requirements, where mounting provisions are unnecessary. MS 3101 E or MS 3101 F connectors mate with 3106 and 3108 styles.





44	2 3/4" - 16 UN	88.90	105.00	60.32	76.20	75.4	9.12	49.23	22.23	66.60	4.39	-	30.00	47.60	-	13.15 to 19.50 depending upon contact gauges and shell size.
40	2 1/2" - 16 UN	68.28	88.90	55.58	69.85	69.16	9.12	49.23	22.23	60.50	4.39	114.71	23.10	34.50	80.98	
36	2 1/4" - 16 UN	58.40	83.30	49.23	63.50	62.71	9.12	49.23	22.23	53.80	4.39	109.14	17.60	34.50	69.06	
32	2" - 18 UN	52.70	77.00	44.45	57.15	56.36	9.12	49.23	22.23	47.80	4.39	106.38	15.90	31.30	65.89	
28	1 3/4" - 18 UN	44.20	77.00	39.67	50.80	50.01	5.16	49.23	20.62	41.00	3.73	94.46	11.90	23.40	55.58	
24	1 1/2" - 18 UNEF	44.20	75.40	34.92	44.45	43.65	5.16	49.23	20.62	35.10	3.73	94.46	11.90	23.40	53.98	
22	1 3/8" - 18 UNEF	38.10	69.85	31.75	41.28	40.48	5.16	49.23	19.05	31.80	3.05	82.55	8.90	18.50	50.80	
20	1 1/4" - 18 UNEF	38.10	69.85	29.36	38.10	37.31	5.16	49.23	19.05	28.80	3.05	82.55	8.90	18.50	50.00	
18	1 1/8" - 18 UNEF	33.00	68.25	26.97	34.93	34.14	5.16	49.23	19.05	25.40	3.05	72.24	7.30	15.50	45.24	
16S	1" - 20 UNEF	30.50	57.15	24.61	32.54	31.75	3.96	30.18	14.27	22.30	3.05	61.11	6.50	13.80	42.88	
14S	7/8" - 20 UNEF	28.00	57.15	23.01	30.18	29.36	3.96	30.18	14.27	19.00	3.05	58.72	5.00	10.70	40.49	
12S	3/4" - 20 UNEF	23.00	57.15	20.62	27.79	26.97	3.96	30.18	14.27	15.90	3.05	55.58	3.60	7.50	38.10	
10SL	5/8" - 24 UNEF	23.00	57.15	18.26	25.40	24.59	3.96	30.18	14.27	15.40	3.05	55.58	3.60	7.50	38.10	
SHELL SIZE	A-THREADING	B MAX	C MAX	±0.13 D	±0.79 E-SQ.	φ F MAX	G MAX	H MAX	+0.79 -0.00 J	±0.3 φ K	+0.25 -0.13 φ L	M MAX	MIN N	MAX	P MAX	Z

NOTE: DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR INTIMATION.

ALL DIMENSIONS ARE IN mm

Example **MS 3102 R 28-21 S W - GP - C&C**

PREFIX

Military Standard for
E, F & R Construction

ACCESSORIES

C & C - Cap and Chain Assembly
TB - Telecoping Bushing
DC - Dust Cap
SQG - Square Gasket for Receptacle
3100, 3102
(Accessories are not in scope of
standard supply)

SHELL STYLES

3100 - Wall Mounting Receptacle
3101 - Cable Mounting Connector
3102 - Box / Panel Mounting Receptacle
3106 - Cable Connector - Straight
3108 - Cable Connector - Angular

SPECIAL

GP - Flash Gold Plated Contacts
SI Silicon Insert
NI - Nickel Plated Shell

(Omit for standard)

SHELL CONSTRUCTION

E - Environment Resistance
(With cable clamp for cable end connector)
F - Environment Resistant
(With cable clamp & O' ring for 3106
& 3108 cable connector)
R - Environment Resistance
(for Receptacle 3102)

ALTERNATE INSERT POSITION

W, X, Y or Z for alternate position
depending on insert
(Omit for standard position)
See Page 11

INSERT NUMBER

Consist of Shell Size 10SL, 12S, 14S, 16S, 18, 20,
22, 24, 28, 32, 36, 40, 44 and
Contact arrangement code number of pin
configuration as per JSS 50812 (MIL - C - 5015)
See Pages 6 to 10

CONTACT TYPE

P - Male
S - Female

SERVICE RATING	INST	A	D	E	B	C
Test Voltage at Sea Level VAC (rms)	1000	2000	2800	3500	4500	7000
Rated Working Voltage - DC At Sea Level AC (rms)	250 200	700 500	1250 900	1750 1250	2450 1750	4200 3000
Effective Creepage - Inch (nominal) - mm	1/16 1.57	1/8 3.18	3/16 4.75	1/4 6.35	5/16 7.92	1 25.40
Mechanical Spacing - Inch (nominal) - mm	- -	1/16 1.57	1/8 3.18	3/16 4.75	1/4 6.35	5/16 7.92

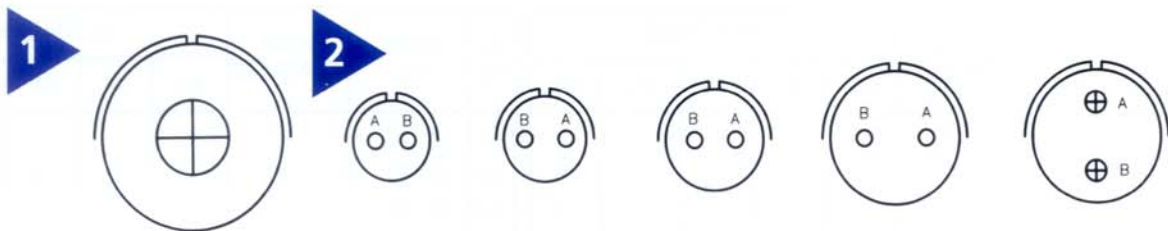
CONTACT SIZE	16	12	8	4	0
Max. Test Current - Amps	22	41	73	135	245
Rated Current - Amps	13	23	46	80	150

CONTACT SIZE	WIRE SIZE Dia (mm)	OD OF INSULATED WIRE	
		Max. (mm)	Min (mm)
16	0.80 1.00 1.25	3.30	1.63
12	1.60 2.00	4.32	2.90
8	2.50 3.15	6.48	4.17
4	4.00 5.00	9.40	6.90
0	6.30 8.00	13.98	10.55

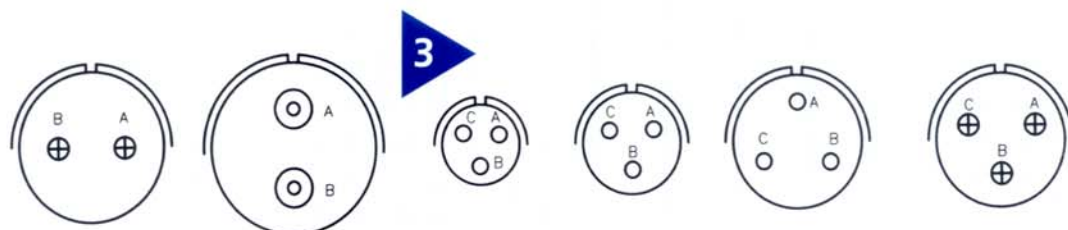
GENERAL SPECIFICATION	
Shell Housing	Aluminium Alloy
Plating	Olive Drab Cadmium
Insulator	Polychloroprene/Nickel/Electroless Nickel
Contact Material	Copper Base Alloy - Silver Plated
Mating Cycle	500
Operating Temperature	-55°C / + 125°C
Insulation Resistance	Min. 5000 Meg Ohms at 500 VDC
Current Rating	10 to 150 Amps. (Depends on Contact Arrangement)
Working Voltage	200 to 3000 VAC rms (Depends on Contact Arrangement)
Wire Termination	Solder Type/Crimp for contacts #16 #12 #8

Sr. No.	INSERT No.	TOTAL CONTACTS	CONTACT SIZE					Sr. No.	INSERT No.	TOTAL CONTACTS	CONTACT SIZE				
			#0	#4	#8	#12	#16				#0	#4	#8	#12	#16
1	10SL - 3	3	-	-	-	-	3	51	22 - 20	9	-	-	-	-	9
2	10SL - 4	2	-	-	-	-	2	52	22 - 22	4	-	-	4	-	-
3	12S - 3	2	-	-	-	-	2	53	22 - 23	8	-	-	-	8	-
4	12SP - 10	4	-	-	-	-	4	54	22 - 29	7	-	1	-	-	6
5	14S - 2	4	-	-	-	-	4	55	22 - 33	7	-	-	-	-	7
6	14S - 5	5	-	-	-	-	5	56	22 - 34	5	-	-	-	3	2
7	14S - 6	6	-	-	-	-	6	57	24 - 2	7	-	-	-	7	-
8	14S - 7	3	-	-	-	-	3	58	24 - 4	4	1	-	-	-	3
9	14S - 9	2	-	-	-	-	2	59	24 - 5	16	-	-	-	-	16
10	16S - 1	7	-	-	-	-	7	60	24 - 7	16	-	-	-	2	14
11	16S - 4	2	-	-	-	-	2	61	24 - 10	7	-	-	7	-	-
12	16S - 5	3	-	-	-	-	3	62	24 - 11	9	-	-	3	6	-
13	16S - 8	5	-	-	-	-	5	63	24 - 12	5	-	2	-	3	-
14	16S - 9	4	-	-	-	2	2	64	24 - 21	10	-	-	1	-	9
15	16S - 10	3	-	-	-	3	-	65	24 - 22	4	-	-	4	-	-
16	16 - 11	2	-	-	-	2	-	66	24 - 27	7	-	-	-	-	7
17	18 - 1	10	-	-	-	-	10	67	24 - 28	24	-	-	-	-	24
18	18 - 3	2	-	-	-	2	-	68	28 - 3	3	-	-	3	-	-
19	18 - 4	4	-	-	-	-	4	69	28 - 5	5	-	2	-	1	2
20	18 - 5	3	-	-	-	2	1	70	28 - 8	12	-	-	-	2	10
21	18 - 8	8	-	-	-	1	7	71	28 - 9	12	-	-	-	6	6
22	18 - 9	7	-	-	-	2	5	72	28 - 10	7	-	2	2	3	-
23	18 - 10	4	-	-	-	4	-	73	28 - 11	22	-	-	-	4	18
24	18 - 11	5	-	-	-	5	-	74	28 - 12	26	-	-	-	-	26
25	18 - 12	6	-	-	-	-	6	75	28 - 13	26	-	-	-	-	26
26	20 - 3	3	-	-	-	3	-	76	28 - 15	35	-	-	-	-	35
27	20 - 4	4	-	-	-	4	-	77	28 - 16	20	-	-	-	-	20
28	20 - 7	8	-	-	-	-	8	78	28 - 18	12	-	-	-	-	12
29	20 - 8	6	-	-	2	-	4	79	28 - 19	10	-	-	-	4	6
30	20L - 9	9	-	-	-	9	-	80	28 - 20	14	-	-	-	10	4
31	20 - 14	5	-	-	2	3	-	81	28 - 21	37	-	-	-	-	37
32	20 - 15	7	-	-	-	7	-	82	28 - 22	6	-	3	-	-	3
33	20 - 16	9	-	-	-	2	7	83	28L - 51	43	-	-	-	-	43
34	20 - 17	6	-	-	-	5	1	84	32 - 4	14	-	-	-	2	12
35	20 - 18	9	-	-	-	3	6	85	32 - 6	23	-	2	3	2	16
36	20 - 19	3	-	-	3	-	-	86	32 - 7	35	-	-	-	7	28
37	20 - 23	2	-	-	2	-	-	87	32 - 17	4	-	4	-	-	-
38	20 - 24	4	-	-	2	-	2	88	32L - 68	16	-	4	-	-	12
39	20 - 27	14	-	-	-	-	14	89	36 - 5	4	4	-	-	-	-
40	20 - 29	17	-	-	-	-	17	90	36 - 9	31	-	1	2	14	14
41	20L - 48	19	-	-	-	-	19	91	36 - 10	48	-	-	-	-	48
42	22 - 2	3	-	-	3	-	-	92	36 - 14	16	-	-	5	5	6
43	22 - 7	1	1	-	-	-	-	93	36 - 15	35	-	-	-	-	35
44	22 - 9	3	-	-	-	3	-	94	36L - 34	52	-	-	-	-	52
45	22 - 10	4	-	-	-	-	4	95	36 - 52	52	-	-	-	-	52
46	22 - 14	19	-	-	-	-	19	96	40 - 1	30	-	-	-	6	24
47	22 - 15	6	-	-	-	5	1	97	40 - 9	47	-	-	1	22	24
48	22 - 16	9	-	-	-	3	6	98	40 - 56	85	-	-	-	-	85
49	22 - 18	8	-	-	-	-	8	99	44 - 52	104	-	-	-	-	104
50	22 - 19	14	-	-	-	-	14								

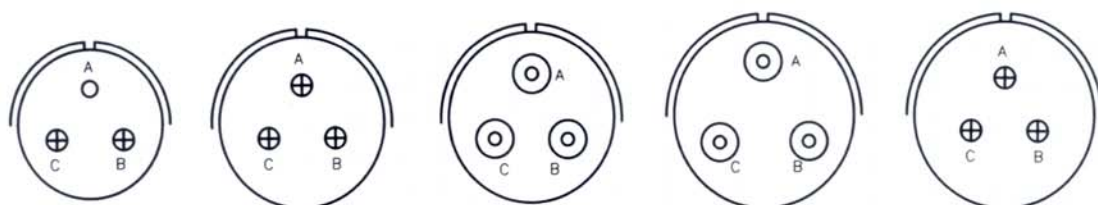
FRONT FACE OF PIN INSERT OR REAR OF SOCKET INSERT ILLUSTRATED – NOT TO SCALE



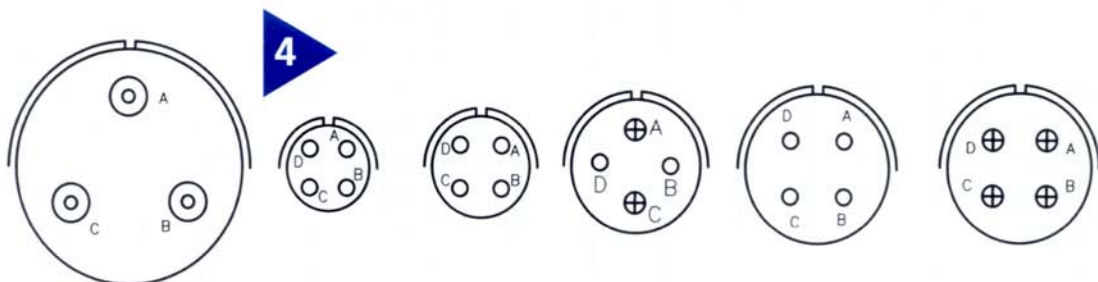
ARRANGEMENT	22 - 7	10SL - 4	12S - 3	14S - 9	16S - 4	16-11
No. OF CONTACTS	1	2	2	2	2	2
CONTACT SIZE	0	16	16	16	16	12
SERVICE RATING	E	A	A	A	D	A



ARRANGEMENT	18 - 3	20 - 23	10SL - 3	14S - 7	16S - 5	16S - 10
No. OF CONTACTS	2	2	3	3	3	3
CONTACT SIZE	12	8	16	16	16	16
SERVICE RATING	D	A	A	A	A	A



ARRANGEMENT	18 - 5	20 - 3	20 - 19	22 - 2	22 - 9
No. OF CONTACTS	3	3	3	3	3
CONTACT SIZE	2-12, 1-16	12	8	8	12
SERVICE RATING	D	D	A	D	E



ARRANGEMENT	28 - 3	12SP - 10	14S - 2	16S - 9	18 - 4	18 - 10
No. OF CONTACTS	3	4	4	4	4	4
CONTACT SIZE	8	16	16	2-12, 2-16	16	12
SERVICE RATING	E	INST.	INST.	A	D	A

CONTACT LEGEND

16 ○

12 ⊕

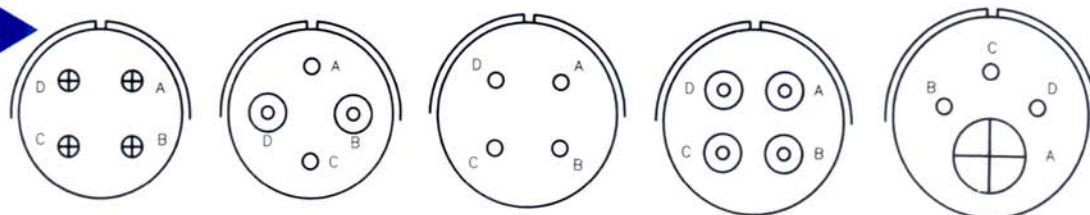
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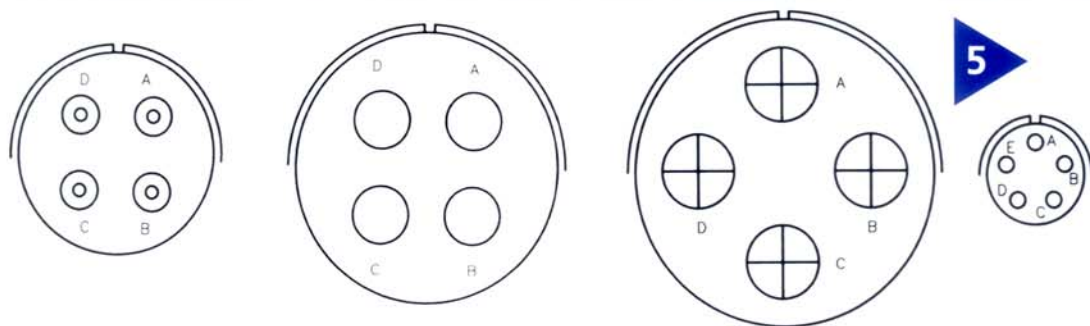
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FRONT FACE OF PIN INSERT OR REAR OF SOCKET INSERT ILLUSTRATED – NOT TO SCALE

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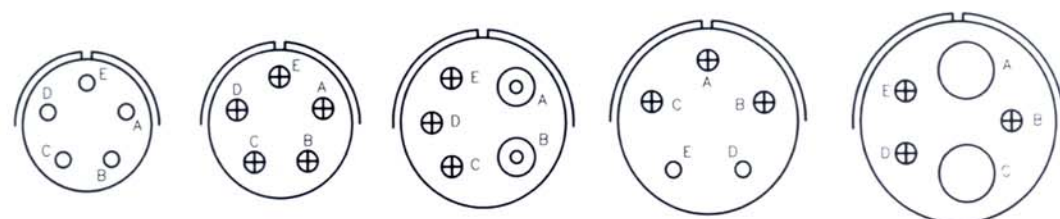


ARRANGEMENT	20 - 4	20 - 24	22 - 10	22 - 22	24 - 4
No. OF CONTACTS	4	4	4	4	4
CONTACT SIZE	12	2-8, 2-16	16	8	1-0, 3-16
SERVICE RATING	D	A	E	A	D



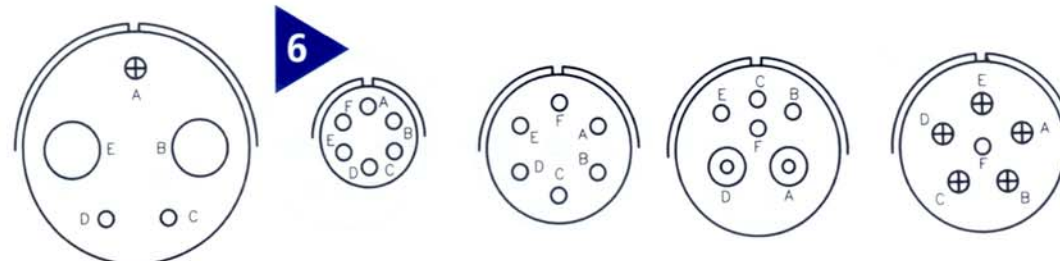
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ARRANGEMENT	24 - 22	32 - 17	36 - 5	14S - 5
No. OF CONTACTS	4	4	4	5
CONTACT SIZE	8	4	0	16
SERVICE RATING	D	D	A	INST.



ARRANGEMENT	16S - 8	18 - 11	20 - 14	22 - 34	24 - 12
No. OF CONTACTS	5	5	5	5	5
CONTACT SIZE	16	12	2-8, 3-12	3-12, 2-16	2-4, 3-12
SERVICE RATING	A	A	A	D	A

6



ARRANGEMENT	28 - 5	14S - 6	18 - 12	20 - 8	20 - 17
No. OF CONTACTS	5	6	6	6	6
CONTACT SIZE	2-4, 1-12, 2-16	16	16	2-8, 4-16	5-12, 1-16
SERVICE RATING	D	INST.	A	INST.	A

CONTACT LEGEND

16 ○

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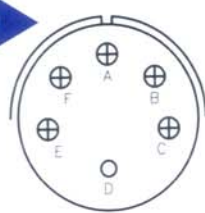
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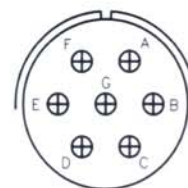
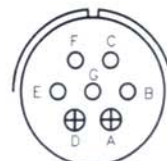
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FRONT FACE OF PIN INSERT OR REAR OF SOCKET INSERT ILLUSTRATED - NOT TO SCALE

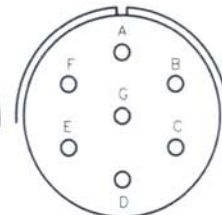
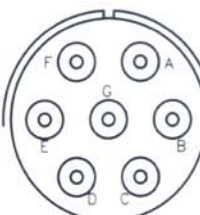
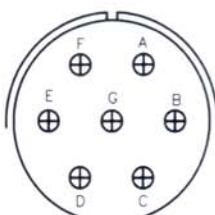
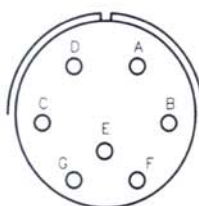
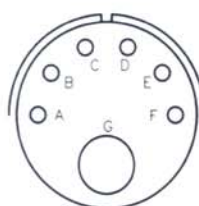
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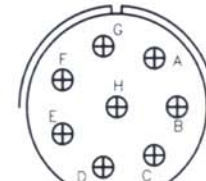
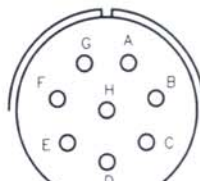
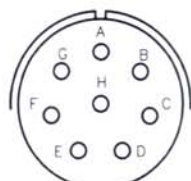
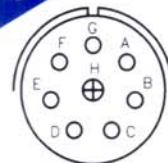
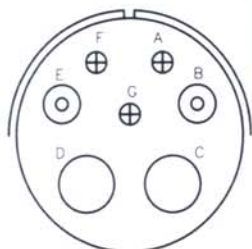


ARRANGEMENT	22 - 15	28 - 22	16S - 1	18 - 9	20 - 15
No. OF CONTACTS	6	6	7	7	7
CONTACT SIZE	5-12, 1-16	3-4, 3-16	16	2-12, 5-16	12
SERVICE RATING	D=E, ABCEF=A	D	A	INST.	A



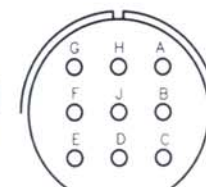
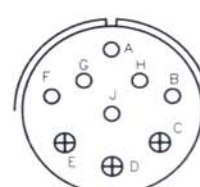
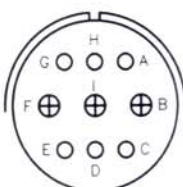
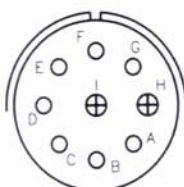
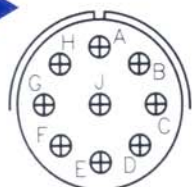
ARRANGEMENT	22 - 29	22 - 33	24 - 2	24 - 10	24 - 27
No. OF CONTACTS	7	7	7	7	7
CONTACT SIZE	1-4, 6-16	16	12	8	16
SERVICE RATING	A	ABCD=D, EFG=A	D	A	E

8



ARRANGEMENT	28 - 10	18 - 8	20 - 7	22 - 18	22 - 23
No. OF CONTACTS	7	8	8	8	8
CONTACT SIZE	2-4, 2-8, 3-12	1-12, 7-16	16	16	12
SERVICE RATING	G=D, BAL.=A	A	ABHG=D, CDEF=A	ABFGH=D, CDE=A	H=D, BAL.=A

9



ARRANGEMENT	20L - 9	20 - 16	20 - 18	22 - 16	22 - 20
No. OF CONTACTS	9	9	9	9	9
CONTACT SIZE	12	2-12, 7-16	3-12, 6-16	3-12, 6-16	16
SERVICE RATING	INST.	A	A	A	A

CONTACT LEGEND

16 ○

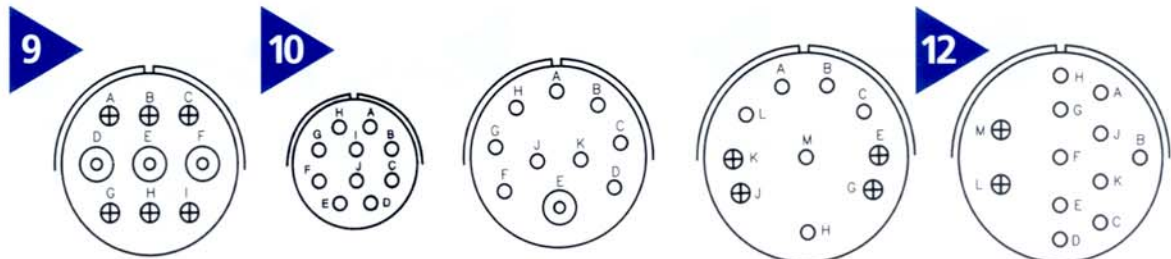
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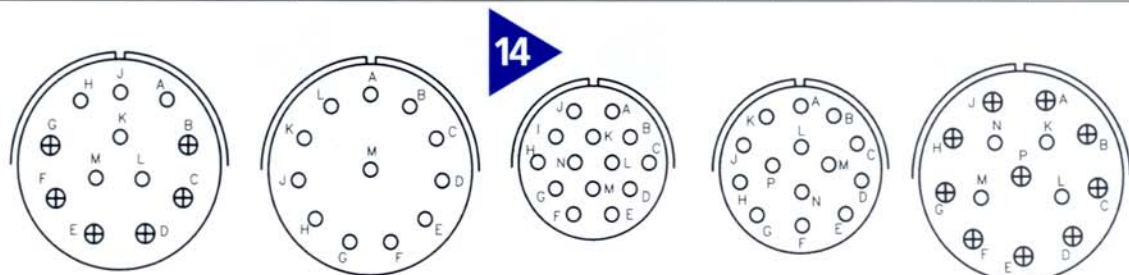
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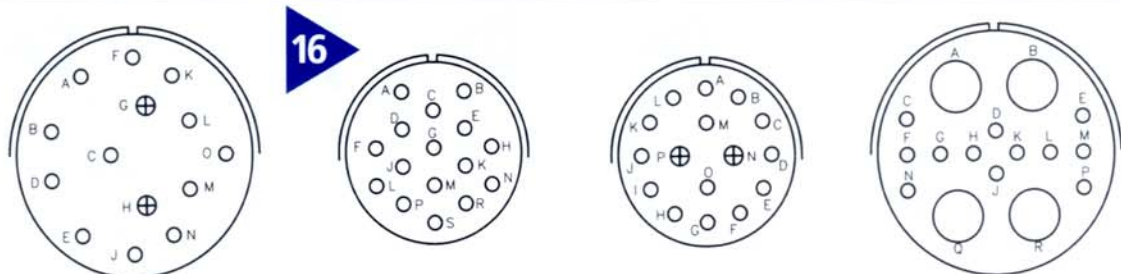
FRONT FACE OF PIN INSERT OR REAR OF SOCKET INSERT ILLUSTRATED – NOT TO SCALE



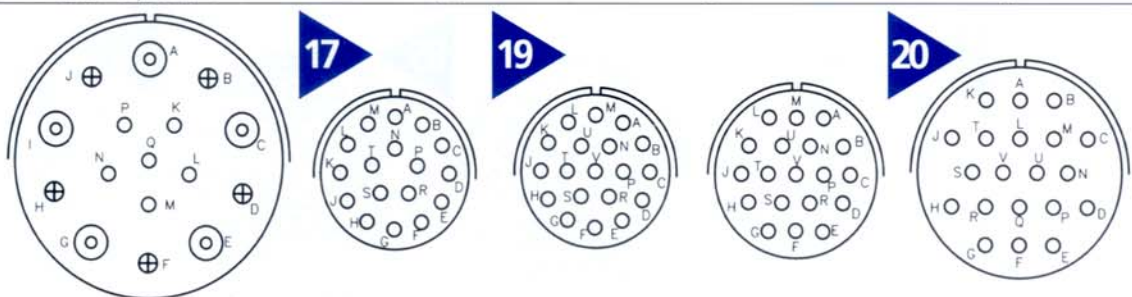
ARRANGEMENT	24 - 11	18 - 1	24 - 21	28 - 19	28 - 8
No. OF CONTACTS	9	10	10	10	12
CONTACT SIZE	3-8, 6-12	16	1-8, 9-16	4-12, 6-16	2-12, 10-16
SERVICE RATING	A	BCFG=A, BAL.=INST.	D	HM=E, B=D, BAL.=A	LM=E, B=D, BAL.=A



ARRANGEMENT	28 - 9	28 - 18	20 - 27	22 - 19	28 - 20
No. OF CONTACTS	12	12	14	14	14
CONTACT SIZE	6-12, 6-16	16	16	16	10-12, 4-16
SERVICE RATING	D	M=C, GHJKL=D, AB=A, BAL.=INST.	A	A	A



ARRANGEMENT	32 - 4	24 - 5	24 - 7	32L - 68
No. OF CONTACTS	14	16	16	16
CONTACT SIZE	2-12, 12-16	16	2-12, 14-16	4-4, 12-16
SERVICE RATING	FJKN=A, BAL.=D	A	A	A



ARRANGEMENT	36 - 14	20 - 29	20L - 48	22 - 14	28 - 16
No. OF CONTACTS	16	17	19	19	20
CONTACT SIZE	5-8, 5-12, 6-16	16	16	16	16
SERVICE RATING	D	A	INST.	A	A

CONTACT LEGEND

16 ○

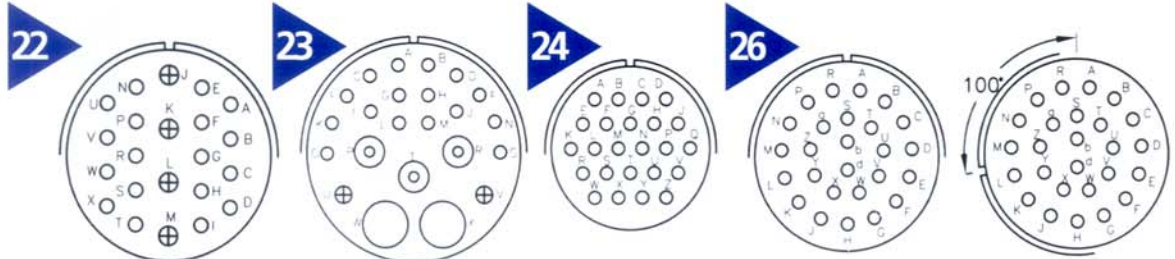
12 ⊕

8 ⊙

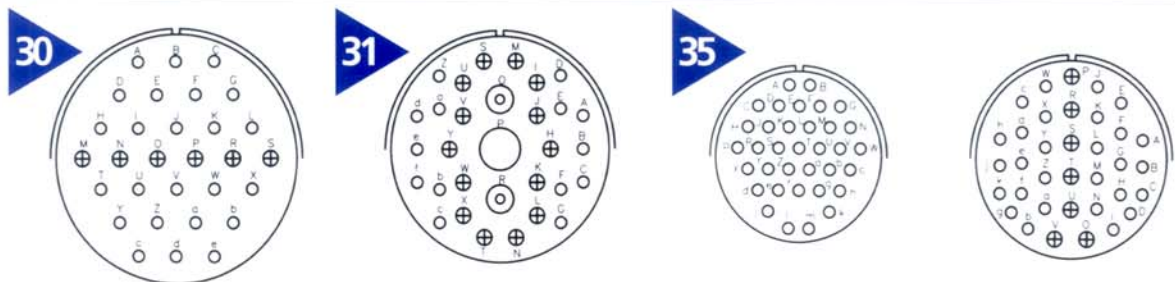
4 ○

0 ⊕

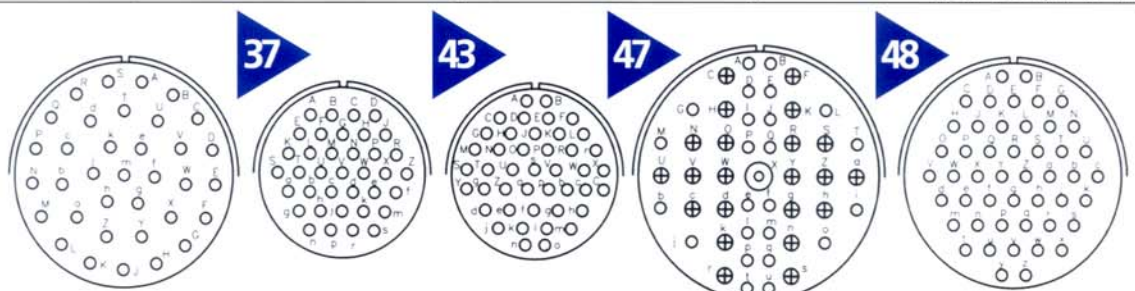
FRONT FACE OF PIN INSERT OR REAR OF SOCKET INSERT ILLUSTRATED – NOT TO SCALE



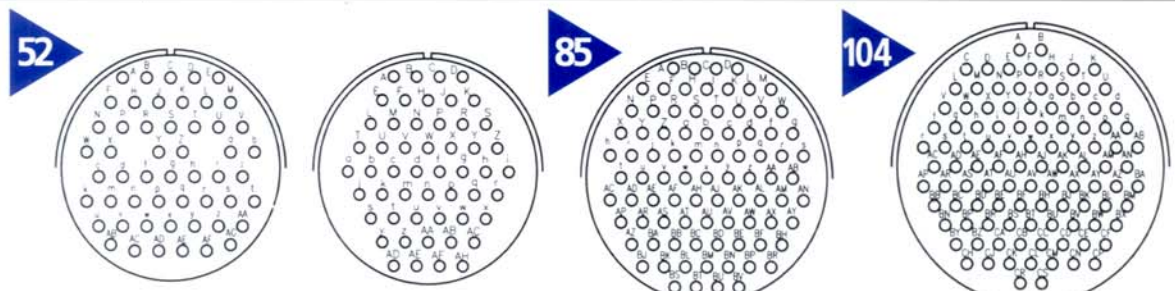
ARRANGEMENT	28 - 11	32 - 6	24 - 28	28 - 12	28 - 13
No. OF CONTACTS	22	23	24	26	26
CONTACT SIZE	4-12, 18-16	2-4, 3-8, 2-12, 16-16	16	16	16
SERVICE RATING	A	A	INST.	A	A



ARRANGEMENT	40 - 1	36 - 9	28 - 15	32 - 7
No. OF CONTACTS	30	31	35	35
CONTACT SIZE	6-12, 24-16	1-4, 2-8, 14-12, 14-16	16	7-12, 28-16
SERVICE RATING	D	A	A	ABHi=INST., BAL.=A



ARRANGEMENT	36 - 15	28 - 21	28L - 51	40 - 9	36 - 10
No. OF CONTACTS	35	37	43	47	48
CONTACT SIZE	16	16	16	1-8, 22-12, 24-16	16
SERVICE RATING	m=D, BAL.=A	A	A	A	A



ARRANGEMENT	36L - 34	36 - 52	40 - 56	44 - 52
No. OF CONTACTS	52	52	85	104
CONTACT SIZE	16	16	16	16
SERVICE RATING	A	A	A	A

CONTACT LEGEND

16 ○

12 ⊕

8 ⊙

4 ○

0 ⊕

To avoid mis-mating of similar connectors which may be adjacently mounted, polarisation is achieved with different angular positioning of the insulator within the shell. Given below is a list of different angular positions for various contact arrangements.

Sr. No.	INSERT No.	DEGEES			
					
		W	X	Y	Z
1	10SL - 3	-	-	-	-
2	10SL - 4	-	-	-	-
3	12S - 3	70	145	215	290
4	12SP - 10	-	-	-	-
5	14S - 2	-	120	240	-
6	14S - 5	-	110	-	-
7	14S - 6	-	-	-	-
8	14S - 7	90	180	270	-
9	14S - 9	70	145	215	290
10	16S - 1	80	-	-	280
11	16S - 4	35	110	250	325
12	16S - 5	70	145	215	290
13	16S - 8	-	170	265	-
14	16S - 9	35	110	250	325
15	16S - 10	90	180	270	-
16	16 - 11	35	110	250	325
17	18 - 1	70	145	215	290
18	18 - 3	35	110	250	325
19	18 - 4	35	110	250	325
20	18 - 5	80	110	250	280
21	18 - 8	70	-	-	290
22	18 - 9	80	110	250	280
23	18 - 10	-	120	240	-
24	18 - 11	-	170	265	-
25	18 - 12	80	-	-	280
26	20 - 3	70	145	215	290
27	20 - 4	45	110	250	-
28	20 - 7	80	110	250	280
29	20 - 8	80	110	250	280
30	20L - 9	-	110	250	-
31	20 - 14	80	110	250	280
32	20 - 15	80	-	-	280
33	20 - 16	80	110	250	280
34	20 - 17	90	180	270	-
35	20 - 18	35	110	250	325
36	20 - 19	90	180	270	-
37	20 - 23	35	110	250	325
38	20 - 24	35	110	250	325
39	20 - 27	35	110	250	325
40	20 - 29	80	-	-	280
41	20L - 48	-	80	280	-
42	22 - 2	70	145	215	290
43	22 - 7	-	-	-	-
44	22 - 9	70	145	215	290
45	22 - 10	35	110	250	325
46	22 - 14	80	110	250	280
47	22 - 15	80	110	250	280
48	22 - 16	80	110	250	280
49	22 - 18	80	110	250	280
50	22 - 19	80	110	250	280
51	22 - 20	35	110	250	325
52	22 - 22	-	110	250	-
53	22 - 23	35	-	250	-
54	22 - 29	80	110	250	280
55	22 - 33	80	110	250	280
56	22 - 34	80	110	250	280
57	24 - 2	80	-	-	280
58	24 - 4	80	110	250	280
59	24 - 5	80	110	250	280
60	24 - 7	80	110	250	280
61	24 - 10	80	-	-	280
62	24 - 11	35	110	250	325
63	24 - 12	80	110	250	280
64	24 - 21	80	110	250	280
65	24 - 22	45	110	250	-
66	24 - 27	80	-	-	280
67	24 - 28	80	110	250	280
68	28 - 3	70	145	215	290
69	28 - 5	35	110	250	325
70	28 - 8	80	110	250	280
71	28 - 9	80	110	250	280
72	28 - 10	80	110	250	280
73	28 - 11	80	110	250	280
74	28 - 12	90	180	270	-
75	28 - 13	-	-	-	-
76	28 - 15	80	110	250	280
77	28 - 16	80	110	250	280
78	28 - 18	70	145	215	290
79	28 - 19	80	110	250	280
80	28 - 20	80	110	250	280
81	28 - 21	80	110	250	280
82	28 - 22	70	145	215	290
83	28L - 51	-	-	-	-
84	32 - 4	80	110	250	280
85	32 - 6	80	110	250	280
86	32 - 7	80	125	235	280
87	32 - 17	45	110	250	-
88	32L - 68	-	-	-	-
89	36 - 5	-	120	240	-
90	36 - 9	80	125	235	280
91	36 - 10	80	125	235	280
92	36 - 14	90	180	270	-
93	36 - 15	60	125	245	305
94	36L - 34	-	-	-	-
95	36 - 52	72	144	216	288
96	40 - 1	65	130	235	300
97	40 - 9	65	125	225	310
98	40 - 56	72	144	216	288
99	44 - 52	-	-	-	-

CABLE CLAMP MS 3057 A



The MS 3057 A cable clamp is made for cable connector and receptacles that have an endbell with external conduit threads. The double clamping action provides a balanced, positive hold on the wires and greatly reduces moisture transmission. Provision is made for safety wiring. This clamp is supplied without bushing.

PART NUMBER	FITS SHELL SIZE	ACCOMMODATES MS BUSHING
MS 3057 - 4A	10SL, 12S	MS 3420 - 4
MS 3057 - 6A	14S	MS3420 - 6
MS 3057 - 8A	16S, 16	MS 3420 - 8
MS 3057 - 10A	18	MS 3420 - 10
MS 3057 - 12A	20, 22	MS 3420 - 12
MS 3057 - 16A	24, 28	MS 3420 - 16, 12
MS 3057 - 20A	32	MS 3420 - 20, 16
MS 3057 - 24A	36	MS 3420 - 24, 20
MS 3057 - 28A	40	MS 3420 - 24, 20

TELESCOPING BUSHING MS 3420



Telescoping gland bushings (used with MS 3057 - A cable clamp, & 3100, 3101, 3106, 3108 styles) keeps dirt, oils and moisture out of endbell. Taping or wrapping wires is eliminated, since bushing protects wires going through clamp. Combinations of bushing may be used to decrease cable entry diameter to improve sealing. Material is Polychloroprene.

PART NUMBER	FITS SHELL SIZE
MS 3420 - 4	10SL, 12S
MS 3420 - 6	14S
MS 3420 - 8	16S, 16
MS 3420 - 10	18
MS 3420 - 12	20, 22
MS 3420 - 16	24, 28
MS 3420 - 20	32
MS 3420 - 24	36
MS 3420 - 28	40

PROTECTIVE METAL CAP MS 25042 FOR 3106 AND 3108 STYLES



These external threaded metal dust caps are used to protect MS 3106 and MS 3108 styles. Material is aluminium alloy. They are supplied with sash chain.

PART NUMBER WITH SASH CHAIN	FITS SHELL SIZE
MS 25042 - 10D	10SL
MS 25042 - 12D	12S
MS 25042 - 14D	14S
MS 25042 - 16D	16S, 16
MS 25042 - 18D	18
MS 25042 - 20D	20
MS 25042 - 22D	22
MS 25042 - 24D	24
MS 25042 - 28D	28
MS 25042 - 32D	32
MS 25042 - 36D	36
MS 25042 - 40D	40
MS 25042 - 44D	44

PROTECTIVE METAL CAP MS 25043 FOR 3100, 3101 AND 3102 STYLES



These internally threaded metal dust caps are used to protect MS 3100, MS 3101 and MS 3102 styles. Material is aluminium alloy. They are supplied with sash chain.

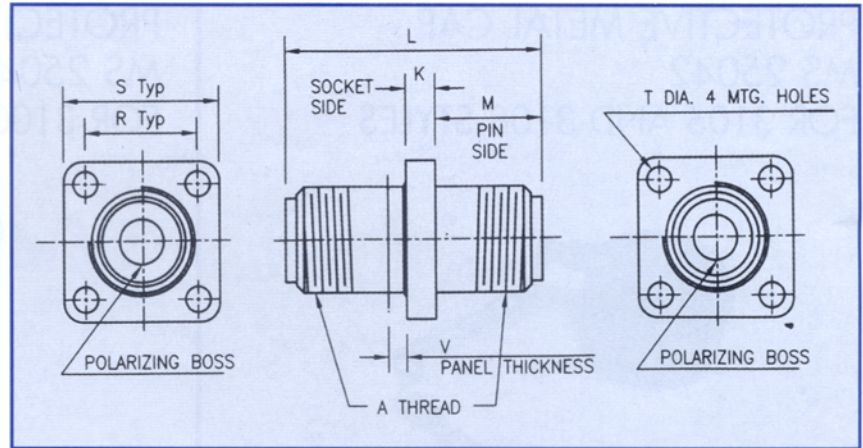
PART NUMBER WITH SASH CHAIN	FITS SHELL SIZE
MS 25043 - 10D	10SL
MS 25043 - 12D	12S
MS 25043 - 14D	14S
MS 25043 - 16D	16S, 16
MS 25043 - 18D	18
MS 25043 - 20D	20
MS 25043 - 22D	22
MS 25043 - 24D	24
MS 25043 - 28D	28
MS 25043 - 32D	32
MS 25043 - 36D	36
MS 25043 - 40D	40
MS 25043 - 44D	44

PLASTIC PROTECTIVE CAP

Protective dust caps are designed to cover the coupling end of MS connectors where there is possibility of foreign matter accumulating on the interior of the connector or to avoid damage to the threaded parts. Material is red polythylene. Plastic dust caps can be reused, but are not intended to replace the standard aluminium dust caps.

For ordering, specify 3102/3106 shell size DC (Dust Cap).





THRU-BULKHEAD RECEPTACLE

TBF - thru-bulkhead fittings have resilient insulators. It has special double-face male and female contact construction. The TB mates with 3106 and 3108 styles.

SHELL SIZE	K MAX.	L MAX.	M ±.031 (+0.79) -.000 (-0.00)	R ±.005 (±0.13)	S ±.031 (±0.79)	T +.01 (+0.25) -.005 (0.13)	V MAX.	A THREAD
10SL	.125 (3.18)	1.482 (37.64)	.562 (14.27)	.812 (20.62)	1.000 (25.40)	.120 (3.05)	.325 (8.26)	5/8 - 24 UNEF-2A
12S	.140 (3.56)	1.482 (37.64)	.562 (14.27)	.719 (18.26)	1.094 (27.79)	.120 (3.05)	.325 (8.26)	3/4 - 20 UNEF-2A
14S	.140 (3.56)	1.482 (37.64)	.562 (14.27)	.906 (23.01)	1.188 (30.18)	.120 (3.05)	.325 (8.26)	7/8 - 20 UNEF-2A
16S	.140 (3.56)	1.482 (37.64)	.562 (14.27)	.968 (24.59)	1.281 (32.54)	.120 (3.05)	.325 (8.26)	1 - 20 UNEF-2A
18	.180 (4.57)	2.030 (51.56)	.750 (19.05)	1.062 (26.97)	1.375 (34.92)	.120 (3.05)	.445 (11.30)	1-1/8 - 18 UNEF-2A
20	.180 (4.57)	2.030 (51.56)	.750 (19.05)	1.156 (29.36)	1.500 (38.10)	.120 (3.05)	.445 (11.30)	1-1/4 - 18 UNEF-2A
22	.180 (4.57)	2.030 (51.56)	.750 (19.05)	1.250 (31.75)	1.625 (41.28)	.120 (3.05)	.445 (11.30)	1-3/8 - 18 UNEF-2A
24	.203 (5.16)	2.030 (51.56)	.812 (20.62)	1.375 (34.92)	1.750 (44.45)	.147 (3.73)	.383 (9.73)	1-1/2 - 18 UNEF-2A
28	.203 (5.16)	2.030 (51.56)	.812 (20.62)	1.562 (39.67)	2.000 (50.80)	.147 (3.73)	.383 (9.73)	1-3/4 - 18 UNS-2A
32	.203 (5.16)	2.030 (51.56)	.812 (20.62)	1.750 (44.45)	2.250 (57.15)	.173 (4.39)	.320 (8.13)	2 - 18 UNS-2A
36	.203 (5.16)	2.030 (51.56)	.812 (20.62)	1.938 (49.23)	2.500 (63.50)	.173 (4.39)	.383 (9.73)	2-1/4 - 18 UN-2A
40	.203 (5.16)	2.030 (51.56)	.875 (22.22)	2.188 (55.58)	2.750 (69.85)	.173 (4.39)	.383 (9.73)	2-1/2 - 18 UN-2A

Dimensions are in Inch (mm).

Dimensions are for reference only.

For contact arrangements see page nos. 6 to 10.

FIXED CONNECTOR WITHOUT
BACK SHELL (SLEEVE)
TYPE - ШП, СШП



WP/CWP - 02

FIXED CONNECTOR WITHOUT
BACK SHELL (SLEEVE)
TYPE - ШПГ, СШПГ



WPR/CWPR - 02

FIXED CONNECTOR WITH
STRAIGHT BACK SHELL (SLEEVE)
TYPE - ШП, СШП, ШПГ



WP/CWP/WPR - 00/00E

FREE CONNECTOR WITH
STRAIGHT SLEEVE
TYPE - ШП, СШП



WP/CWP - 06/06E

FREE CONNECTOR WITH
ANGULAR SLEEVE
TYPE - ШП, СШП



WP/CWP - 08/08E

FIXED CONNECTOR WITHOUT
SLEEVE (Б)
TYPE - 2PM, 2PMЛ, 2PMГ,
2PMГЛ



2PM/2PMR - 02

FIXED CONNECTOR WITH
STRAIGHT SLEEVE (БШ, БШГ)
TYPE - 2PM, 2PMЛ,
2PMГ, 2PMГЛ



2PM/2PMR - 00/00E

FREE CONNECTOR (CABLE
MOUNTED) WITH STRAIGHT
SLEEVE (КШ, КШГ)
TYPE - 2PM, 2PMЛ,



2PM - 06/06E

FREE CONNECTOR (CABLE
MOUNTED) WITH ANGULAR
SLEEVE (КШ, КШГ)
TYPE - 2PM, 2PMЛ,



2PM - 06/08E

FIXED CONNECTOR
EQUIPMENT MOUNTING
FEED THROUGH
2PMГЛ, 2PMГЛЛ



2PM/2PMR - TBF

S-750 Metric Series is designed and approved to JSS-50860 Specification by LCSO. The Connectors are based on Russian design and are fully interchangeable with the GOST specification types. To suit environmental requirements of our country, the material and finish have been standardised as given here.

Write us for further information.

SPECIFICATION: JSS - 50860
SHELL: Aluminium Alloy-O.D.
Cadmium-Passivated
CONTACTS: Copper Alloy - Silver Plated
INSERT: Polychloroprene