

The MS Circular range are heavy duty screw-lock connectors for industrial applications. They are designed to JSS50812 standard, equivalent to MIL-C-5015. The connectors are available in 5 shell styles with over 110 insert configurations and 14 different shell

sizes. Further non-standard modifications and configurations are also available on request. Applications include CNC machinery, robots and any general industrial use.

SHELL STYLES



MS 3100E
Wall mounting receptacle with integral cable clamp



MS 3101E
Cable mounting receptacle



MS 3102R
Box mounting receptacle



MS 3106F
Cable connector straight with integral cable clamp



MS 3108F
Cable connector 90° angular

INSERT SPECIFICATIONS

Insert arrangement	Number of contacts	Contact size				
		0	4	8	12	16
10SL-3	3	-	-	-	-	3
10SL-4	2	-	-	-	-	2
14S-2	4	-	-	-	-	4
14S-5	5	-	-	-	-	5
14S-6	6	-	-	-	-	6
14S-7	3	-	-	-	-	3
14S-9	2	-	-	-	-	2
16S-1	7	-	-	-	-	7
16S-5	3	-	-	-	-	3
16S-8	5	-	-	-	-	5
16-10	3	-	-	-	3	-
16-11	2	-	-	-	2	-
18-1	10	-	-	-	-	10
18-8	8	-	-	-	1	7
18-10	4	-	-	-	4	-
18-11	5	-	-	-	5	-
18-12	6	-	-	-	-	6
20-7	8	-	-	-	-	8

Insert arrangement	Number of contacts	Contact size				
		0	4	8	12	16
20-15	7	-	-	-	7	-
20-16	9	-	-	-	2	7
20-19	3	-	-	3	-	-
20-27	14	-	-	-	-	14
20-29	17	-	-	-	-	17
22-2	3	-	-	3	-	-
22-19	14	-	-	-	-	14
22-22	4	-	-	4	-	-
22-23	8	-	-	-	8	-
24-5	16	-	-	-	-	16
24-10	7	-	-	7	-	-
24-28	24	-	-	-	-	24
28-11	22	-	-	-	4	18
28-15	35	-	-	-	-	35
28-16	20	-	-	-	-	20
28-21	37	-	-	-	-	37
28-22	6	-	3	-	-	3
36-10	48	-	-	-	-	48

Other inserts available on request, contact us for further information

ORDERING GUIDE

Connector family Military standard for E, F & R construction	MS	3102	R	28-21	S
Shell styles					
3100 = Wall mounting receptacle					
3101 = Cable connecting connector					
3102 = Box / Panel mounting receptacle					
3106 = Cable connector - straight					
3108 = Cable connector - 90°					
Shell construction					
E = Environment resistance (with cable clamp for cable end connector)					
F = Environment resistance (with cable clamp & "O" ring for 3106 & 3108)					
R = Environment resistance (for receptacle 3102)					
Insert number					
Consist of shell size 10SL, 12S, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40, 44					
Contact arrangement code number of pin configuration as per JSS 50812 (MIL-C-5015)					
Contact type					
P = Pin (male); S = Socket (female)					

The following non-standard accessories/modifications are available. Please contact us for further information.

- alternate insert position (W, X, Y, Z)
- alternate insert, contact and plating material
- crimp contacts (gold and silver plated)
- less backshell, grommet and follower
- pre-mating contacts

TECHNICAL DATA

General Specifications	
Body	Aluminium Alloy
Plating	Olive Drab
Insulator	Polychloroprene
Contact material	Copper Base Alloy - Silver Plated
Mating cycle	500
Operating temperature	-55°C to +125°C
Insulation resistance	Min 5000 MΩ at 500 VDC
Current rating	13 - 150 Amps (Depends on contact arrangement)
Working voltage	200 - 3000 VAC rms (Depends on contact arrangement)
Wire termination	Solder Type

Contact Size	Wire Size Dia (mm)	OC Of Insulated Wire	
		Max (mm)	Min (mm)
16	0.80	3.30	1.63
	1.00		
	1.25		
12	1.60	4.32	2.90
	2.00		
8	2.50	6.48	4.17
	3.15		
4	4.00	9.40	6.90
	5.00		
0	6.30	13.98	10.55
	8.00		