

MIL-C-5015 技术参数 | Technical Data

电子信息：

接触体等级 Contact

接触体尺寸 Contact size	最大电流（单位：安） （Current max.A ）
16(ϕ 1.6)	13
12(ϕ 2.4)	23
8(ϕ 3.6)	46
4(ϕ 5.7)	80
0(ϕ 9)	150

绝缘阻抗 Insulation resistance

在符合EIA364.21和符合美军标5015第3.18条条件下测试绝缘电阻
The insulation resistance to be tested per EIA364.21 and MIL-C-5015 03.18 test condition B: DC500V/5000MΩ min

工作和测试电压 Opersting & Test voltage

在符合EIA364.20和符合美军标5015第3.11条下测试介质耐电压
The dielectric withstanding voltage to be tested per EIA364.20 and MIL-C-5015 3.11

使用等级 Service rating	介质耐压 Medium is able to bear pressure	交流测试电压(有效值) Test voltage AC(rms)
	海拔 Sea level	70000英尺 ft
仪器(INST)	1000	260
A	2000	360
D	2800	400
E	3500	440
B	4500	480
C	7000	560

使用等级 Service rating	工作电压 Operating voltage	
	直流电压 DC	交流电压（有效值）AC(rms)
仪器(INST)	250	200
A	750	500
D	1250	900
E	1750	1250
B	2450	1750
C	4200	3000

接触体阻抗 Contact resistance

电压下降到与耦合环境测试依EIA364.06和美军标5015第3.11条
Voltage drops to be tested with the coupling environment per EIA364.06 and MIL-C-5015 3.11

接触体尺寸 Contact size AWG	测试电流（安） Test current A	电位降 Potential drop max.mv	接触电阻 Contact resistance max mΩ
16	13	49	6
12	23	42	3
8	46	26	1
4	80	23	0.5
0	150	21	0.2

机械性能：

工作温度

-55℃~+125℃

湿度

符合美军标5015第3.14条和EIA364.31要求
14天内 71℃±2℃至95℃±3℃的湿度进行测试

插合寿命

在最大60次/小时下试验或分离插合至少100次
符合EIA364.09和MIL-C-5015 3.14条

烟雾测试

将未插合的连接器在烟雾下暴露48小时
符合EIA364.26和MIL-C-5015 3.17条

震动性

频率为10-500HZ(15g)最长瞬间10微秒
符合EIA364.28和MIL-C-5015 3.12.1

冲击性

按照MIL-C-5015 3.13要求进行测试频率为
50g/s，三根主轴上持续时间为11秒。

Mechanical Features

Ambient temperature

-55℃ to +125℃

Humidity

14-day71℃±2℃ to 95%±3% humidity testing per
EIA364.31 Method II and MIL-C-5015 3.14

Durability

Test mating/unmating 100 times at the speed of max
60 times/hour.Per EIA364.09 and MIL-C-5015 3.17

Salt spray

Unmated connectors and contacts meet 48 hour
exposure per EIA364.26 test condition letter B
and MIL-C-5015 3.17

Vibration

10μS max at 10 to 500HZ(15g) discontinuity per
EIA364.28 test condition II and MIL-C-5015 3.13

Shock

50g's/11 ms duration,three major exes 10μs
maxdiscontinuity perEIA364.27 test condition
and MIL-C-5015 3.13

接触体保持力 Contact retention

接触体固定力大小符合MIL-C-5015 3.10要求
The contact retention to be tested per
EIA364.29 and MIL-C-5015 3.10

接触体尺寸 Contact size	承受力 Test force N (Lbs)
16	44.5(10)
12	66.7(15)
8	89.0(20)
4	89.0(20)
0	111.2(25)

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接触体分离力 Contact engagement and separation forces

接触体分离力符合EIA364.37和MIL-C-5015 3.25
The Contact engagement and separation forces to be tested
per EIA364.37 and MIL-C-5015 3.25

接触体插入端尺寸 Contact mating end size	接触体分离力 Conact engagement and separation force		
	最小 牛(磅) Min N(lbs)	平均 牛(磅) Average N(lbs)	最大 牛(磅) Max N(lbs)
16	1.6	2.0	2.0
12	2.4	3.0	3.0
8	3.6	5.4	5.4
4	5.7	8.5	8.5
0	9.1	12.0	12.0

封线范围 Wire sealing range

插针规格 Contact size	线范围内固定 Wire range accommodations			
	绝缘外径 Insulation O.D limit	线规(AWG) Wire size	公制 mm ² Mtric mm ²	导体 mm Conductor mm
16	1.6~3.3	16~20	1.3max	1.25~1.7
12	2.9~4.3	12~14	3.5max	1.95~2.4
8	4.2~6.5	8~10	8.0max	4.3~4.8
4	6.9~9.4	4~6	22.0max	5.2~6.0
0	10.5~14.0	0~2	50.0max	9.6~10.7

接触体接触尺寸安排 Full range of contact size and contact arrangements

插针规格 Contact size	插针尺寸 mm Pin O.D mm	焊线孔径 mm Solder pot mm
16	1.6	2.0
12	2.4	3.0
8	3.6	5.4
4	5.7	8.5
0	9.1	12.0

配合指导 Matching Guide



材料：Materials

外壳 Shell

材料 Material 压铸铝合金 Aluminum alloy Die castings
铝合金 Aluminum alloy
电镀 Finish 军绿色 Olive drab chromate coating over
镀锌 Zinc piating

选择电镀

Alternative finish 黑色镀锌（RoHs）标准
black over zinc plating(RoHS)
无电镀镍
Electroless nickel

绝缘体和垫圈 Insulator and grommets

材料 Insulator 合成橡胶/氯丁 Synthetic rubber&polychloroprene
合成橡胶 Synthetic plastic

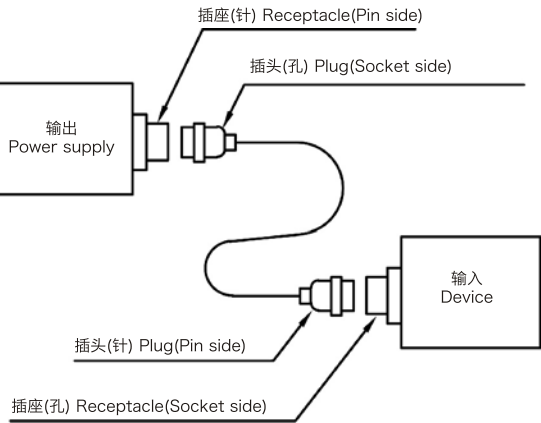
密封圈 Grommet

合成橡胶/氯丁 Synthetic rubber&polychloroprene

接触体 Contacts

材料 Material 铜合金 Copper alloy
电镀 Finish 镀银 Silver plating
镀金 Gold plate

针座.孔座 Pin or Socket Inserts



- 1.连接器是由插头和插座通过插孔口插针的接触连接而形成连接。
- 2.插座，插头可以是带孔或是带针。
然而，如果一端是针座，匹配的另一端就是孔座。
- 3.要使用何种类型将由设备所决定，一般推荐使用输出设备的插座应该是带插针。

Connector combinations are formed with plugs and receptacles that are connected with pin and socket contacts. Either the receptacle or the plug can be provided with pin inserts or socket inserts. However, if one side is a pin insert, the mating side should be a socket insert. The type to use will be determined by the state of the equipment but is generally recommended to use the socket on the output side of the equipment and pin one the input side.

如何订购 How to order

订购系列参考 Order Reference

MS 3102A 18-10PW - **(**)

- 修改号 Modification
- 键位 Position
- 接触体类型 Contact type
- 接触体排列 Contact arrangement
- 壳体尺寸 Shell size
- 使用等级 Class
- 壳体类别 Shell style
- 系列 Series

系列 Series

MS 圆形螺纹式
Circular connectors with threaded coupling
军规标准
Military standard to latest MIL-C-5015 revision

壳体种类 Shell style

3100 墙式安装插座 Wall mounting receptacle
3101 电缆对接式插头 Cable connecting plug
3102 盒式安装插座 Box mounting receptacle
3106 直式插头 Straight plug
3108 90° 插头 90° angled plug
25183 灌胶插头 Potting seal plug

等级 Class

A 一体式终端盒，焊接接触体
Solid shell, solder contact connectors
B 分离式终端盒，焊接接触体
Split shell, solder contact connectors
E/F 耐环境性，带线夹
Environmental with resilient insulators and intergral cable clamp
R 耐环境性，焊接接触体
Environmental resilient potted, solder contact connectors

壳体规格 Shell size

8S, 10SL, 12S, 12, 14S, 16S, 16, 18, 20, 22, 24, 28, 32, 36, 40

接触体排列 Contact arrangement

见页 6~21
See page 6~21

接触体类型 Contact type

P - 插针 pin contact
S - 插孔 Socket contact

键位 Position

交替插入位置 (W,X,Y和Z)
正常键位无标示为空白
见页 6~8
Alternate insert position(M,X,Y or Z)
Leave blank for Normal position
See page 6~8

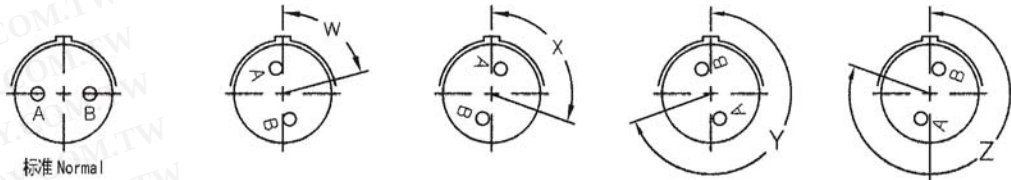
修改号 Modification

无码 军绿色镀锌 (标准)
Without code Olive drab over zinc plating(standard)
A01 黑色镀锌/镍 Black over Zinc/Nicker plating
A02 黑色镀锌 Black over Zinc plating
A03 无电镀镍 Electroless Nickel plating

接触体排列 Contact Arrangements (1)

交替插入位置 Alternate Insert Positions

前侧面或背面引脚插座视图显示
View shows pin front side or socket rear side



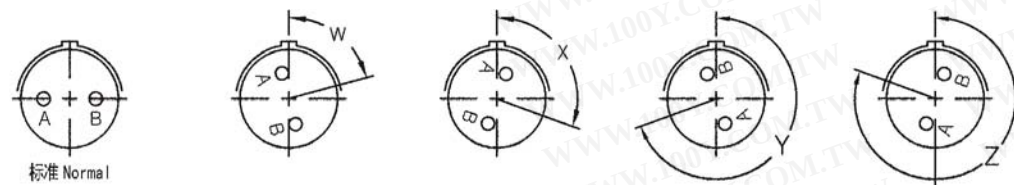
外壳号 尺寸 shell size	插入数 Insert number	插 针 Contacts							键 位 Alemate pos.			
		Tot	20	16	12	8	4	0	w	x	y	z
10SL	10SL-3	3		3								
	10SL-4	2		2								
12S	12S-3	2		2					70	145	215	290
	12S-4	1		1								
	12SA10	4		4								
12	12-5	1			1							
	14S-1	3		3								
	14S-2	4		4						120	240	
	14S-4	1		1								
	14S-5	5		5						110		
14S	14S-6	6		6								
	14S-7	3		3					90	180	270	
	14S-9	2		2					70	145	215	290
	14SA7	7		7								
	14SA10	10	10									
14	14-3	1				1						
	16S-1	7		7					80			280
16S	16S-4	2		2					35	110	250	325
	16S-5	3		3					70	145	215	290
	16S-8	5		5						170	265	
16S	16S-01	8	8									
	16-9	4		2	2				35	110	250	325
	16-10	3			3				90	180	270	
16	16-11	2			2				35	110	250	325
	18-1	10		10					70	145	215	290
	18-3	2			2				35	110	250	325
18	18-4	4		4					35	110	250	325
	18-5	3		1	2				80	110	250	280
	18-8	8		7	1				70			290
	18-9	7		5	2				80	110	250	280

外壳号 尺寸 shell size	插入数 Insert number	插 针 Contacts							键 位 Alemate pos.			
		Tot	20	16	12	8	4	0	w	x	y	z
18	18-10	4			4						120	240
	18-11	5			5						170	265
	18-12	6		6					80			280
	18-19	10		10						120	240	
	18-20	5		5					90	180	270	
	18-21	3			3							
	18-22	3		3					70	145	215	290
20	20-2	1						1				
	20-3	3			3				70	145	215	290
	20-4	4			4				45	110	250	
	20-7	8		8					80	110	250	280
	20-11	13		13								
	20-15	7			7				80			280
	20-16	9		7	2				80	110	250	280
	20-17	6		1	5				90	180	270	
	20-18	9		6	3				35	110	250	325
	20-19	3				3			90	180	270	
	20-22	6		3		3			80	110	250	325
	20-23	2				2			35	110	250	325
	20-24	4		2		2			35	110	250	325
	20-27	14		14					35	110	250	325
	20-29	17		17					80			280
22	20-33	11		11								
	20-01	10		10								
	20A24	24	24									
	20A48	19		19						80	280	
	22-1	2				2			35	110	250	325
	22-2	3				3			70	145	215	290
	22-5	6		4	2				35	110	250	325
	22-7	1						1				

接触体排列 Contact Arrangements (2)

交替插入位置 Alternate Insert Positions

前侧面或背面引脚插座视图显示
View shows pin front side or socket rear side

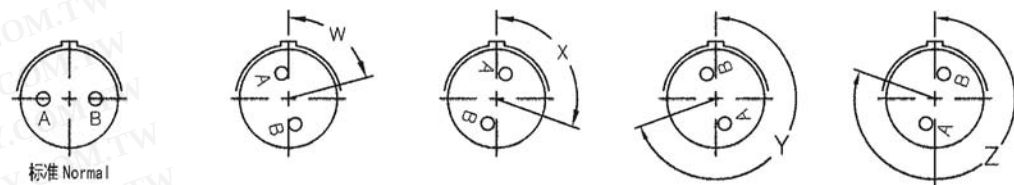


外壳号 尺寸 shell size	插入数 Insert number	插 针 Contacts							键 位 Alemate pos.			
		Tot	20	16	12	8	4	0	w	x	y	z
22	22-8	2		2					35	110	250	325
	22-9	3		3					70	145	215	290
	22-10	4		4					35	110	250	325
	22-14	19		19					80	110	250	280
	22-19	14		14					80	110	250	280
	22-22	4				4				110	250	
	22-23	8			8				35		250	
24	24-2	7			7				80			280
	24-5	16		16					80	110	250	280
	24-7	16		14	2				80	110	250	280
	24-9	2					2		35	110	250	325
	24-10	7				7			80			280
	24-11	9			6	3			35	110	250	325
	24-12	5			3		3		80	110	250	280
	24-20	11		9	2				80	110	250	280
	24-21	10		9		1			80	110	250	280
	24-22	4				4			45	110	250	
	24-28	24		24					80	110	250	280
	24-67	19			19				80			335
	24B24	12			12							
	28-2	14		12	2				35	110	250	325
28	28-3	3				3			70	145	215	290
	28-5	5		2	1		2		35	110	250	325
	28-6	3					3		70	145	215	290
	28-9	12		6	6				80	110	250	280
	28-10	7			3	2	2		80	110	250	280
	28-11	22		18	4				80	110	250	280
	28-12	26		26					90	180	270	
	28-15	35		35					80	110	250	280
	28-16	20		20					80	110	250	280
	28-17	15		15					80	110	250	280

接触体排列 Contact Arrangements (3)

交替插入位置 Alternate Insert Positions

前侧面或背面引脚插座视图显示
View shows pin front side or socket rear side



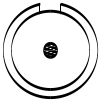
外壳号 尺寸 shell size	插入数 Insert number	插 针 Contacts							键 位 Alemate pos.			
		Tot	20	16	12	8	4	0	w	x	y	z
14S	14S-2	4		4						120	240	
	14S-5	5		5						110		
	14S-6	6		6								
16	16-10	3			3				90	180	270	
	18-1	10		10					70	145	215	290
18	18-8	8		7	1				70			290
	18-10	4		4						120	240	
	18-12	6		6					80			280
	18-19	10		10						120	240	
	20-4	4			4				45	110	250	
20	20-7	8		8					80	110	250	280
	20-15	7			7				80			280
	20-16	9		7	2				80	110	250	280
	20-18	9		6	3				35	110	250	325
	20-27	14		14					35	110	250	325
	20-29	17		17					80			280

外壳号 尺寸 shell size	插入数 Insert number	插 针 Contacts							键 位 Alemate pos.			
		Tot	20	16	12	8	4	0	w	x	y	z
22	22-14	19		19					80	110	250	280
	22-19	14		14					80	110	250	280
	22-22	4				4			35		250	
	22-23	8			8				80	110	250	280
	24-2	7			7				80			280
24	24-5	16		16					80	110	250	280
	24-10	7				7			80			280
	24-11	9			6	3			35	110	250	325
	24-28	24		24					80	110	250	280
	28-2	14		12	2				35	110	250	325
28	28-11	22		18	4				80	110	250	280
	28-15	35		35					80	110	250	280
	28-16	20		20					80	110	250	280
	28-20	14		4	10				80	110	250	280
	28-21	37		37					80	125	235	280
	32-7	35		28	7				35	110	250	280
32	32-17	4					4		45	110	250	
	32-22	54		54								
36	36-10	48		48					80	125	235	280

壳体 and 接触体排列 Shell size and contact arrangements (1)

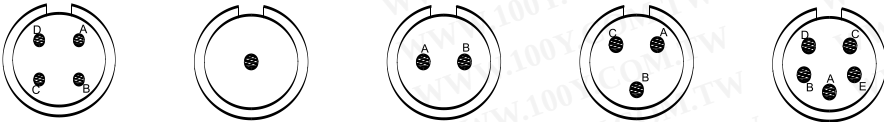
壳体 and 接触体排列 Shell size and contact arrangements (2)

壳体8 Shell Size 8



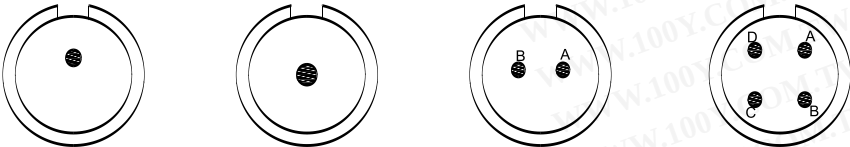
型号 Insert number	8S-1
接触体数量 Number of contacts	1
插针规格 Contact size	16
使用等级 Service rating	A

壳体10 Shell Size 10



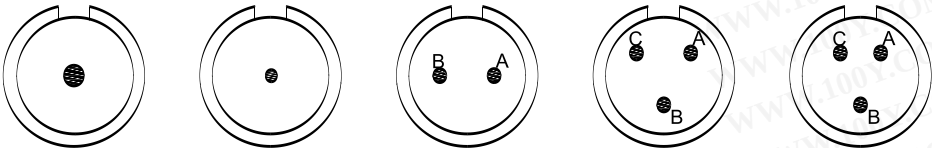
型号 Insert number	10SL-1	10S-2	10SL-4	10SL-3	10SLA4
接触体数量 Number of contacts	4	1	2	3	5
插针规格 Contact size	16	16	16	16	20
使用等级 Service rating	INST	A	A	A	A

壳体12 Shell Size 12

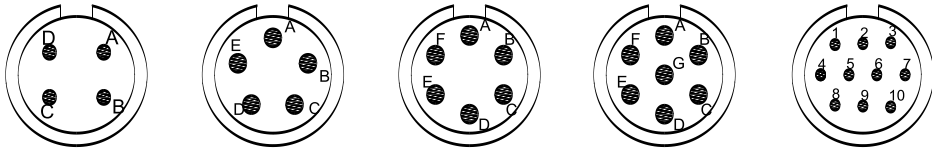


型号 Insert number	12SL-4	12-5	12S-3	12SA10
接触体数量 Number of contacts	1	1	2	4
插针规格 Contact size	16	12	16	16
使用等级 Service rating	D	D	A	INST

壳体14 Shell Size 14

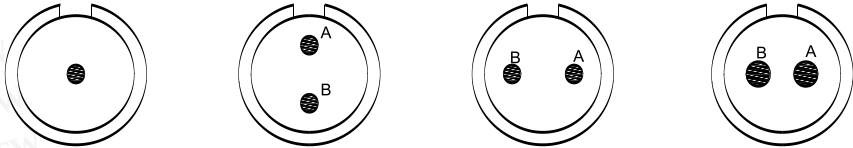


型号 Insert number	14-3	14S-4	14S-9	14S-1	14S-7
接触体数量 Number of contacts	1	1	2	3	3
插针规格 Contact size	8	16	16	16	16
使用等级 Service rating	A	D	A	A	A

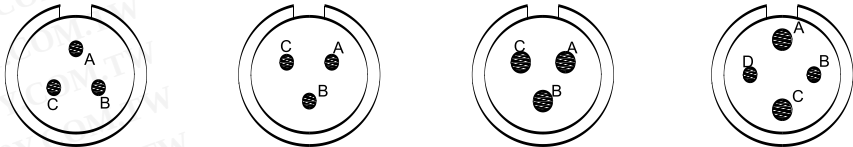


型号 Insert number	14S-2	14S-5	14S-6	14SA7	14S10
接触体数量 Number of contacts	4	5	6	7	10
插针规格 Contact size	16	16	16	16	20
使用等级 Service rating	INST	INST	INST	INST	INST

壳体16 Shell Size 16



型号 Insert number	16-12	16-11	16S-4	16-13
接触体数量 Number of contacts	1	2	2	2
插针规格 Contact size	4	12	16	12
使用等级 Service rating	A	A	D	A



型号 Insert number	16S-5	16S-6	16-10	16-19
接触体数量 Number of contacts	3	3	3	4
插针规格 Contact size	16	16	12	2-16,2-12
使用等级 Service rating	A	A	A	A

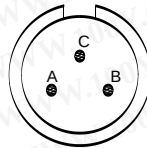
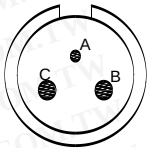
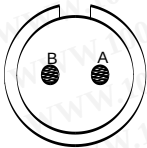
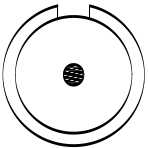


型号 Insert number	16S-8	16S-1
接触体数量 Number of contacts	5	7
插针规格 Contact size	16	16
使用等级 Service rating	A	A

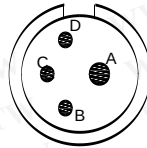
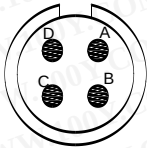
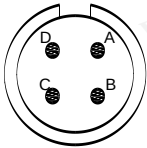
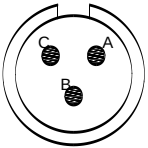
壳体 and 接触体排列 Shell size and contact arrangements (3)

壳体 and 接触体排列 Shell size and contact arrangements (4)

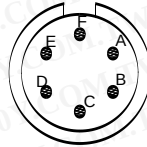
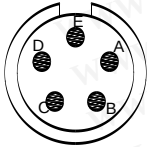
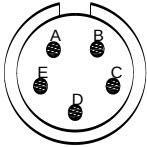
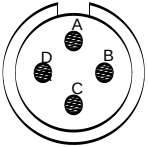
壳体18 Shell Size 18



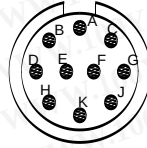
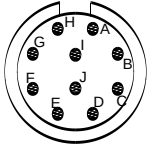
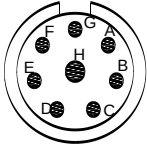
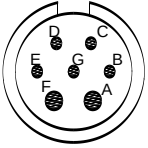
型号 Insert number	18-7	18-3	18-5	18-22
接触体数量 Number of contacts	1	2	3	3
插针规格 Contact size	8	12	1-16,2-12	16
使用等级 Service rating	B	D	D	D



型号 Insert number	18-21	18-4	18-10	18-13
接触体数量 Number of contacts	3	4	4	4
插针规格 Contact size	12	16	12	1-8,3-12
使用等级 Service rating	A	D	A	D

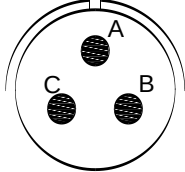
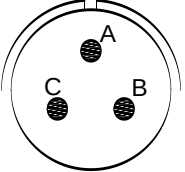
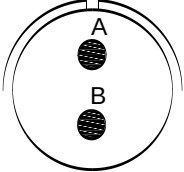
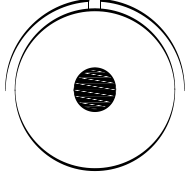


型号 Insert number	18-15	18-20	18-11	18-12
接触体数量 Number of contacts	4	5	5	6
插针规格 Contact size	12	16	12	16
使用等级 Service rating	A	A	A	A

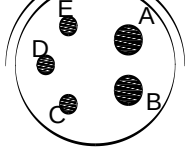
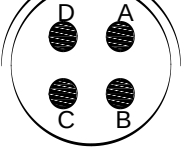
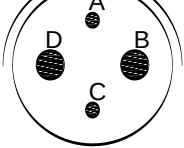
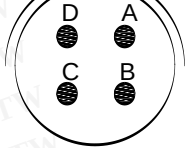


型号 Insert number	18-9	18-8	18-1	18-19
接触体数量 Number of contacts	7	8	10	10
插针规格 Contact size	5-16,2-12	7-16,1-12	16	16
使用等级 Service rating	INST	A	A(B,C,F,G) INST(其他)	A

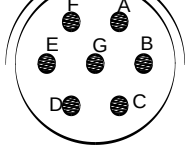
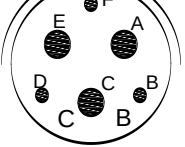
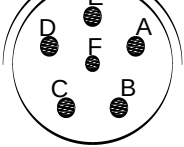
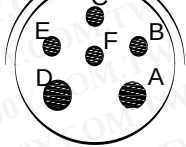
壳体20 Shell Size 20



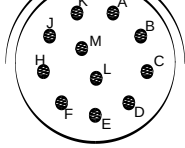
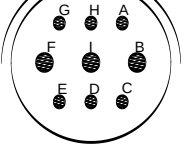
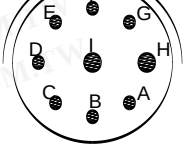
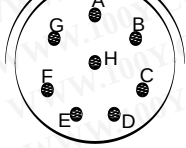
型号 Insert number	20-2	20-23	20-3	20-19
接触体数量 Number of contacts	1	2	3	3
插针规格 Contact size	0	8	3-12	8
使用等级 Service rating	D	A	D	A



型号 Insert number	20-4	20-24	20A37	20-14
接触体数量 Number of contacts	4	4	4	5
插针规格 Contact size	12	2-16,2-8	8 of 20-4	3-12,2-18
使用等级 Service rating	D	A	D	A

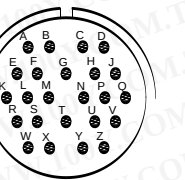
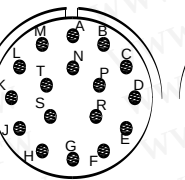
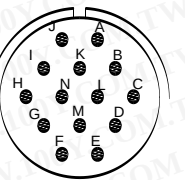
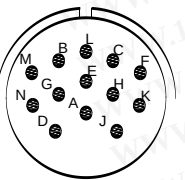
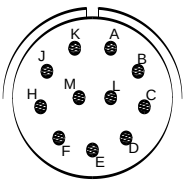


型号 Insert number	20-8	20-17	20-22	20-15
接触体数量 Number of contacts	6	6	6	7
插针规格 Contact size	4-16,2-8	1-16,5-12	3-16,3-8	12
使用等级 Service rating	INST	A	A	A



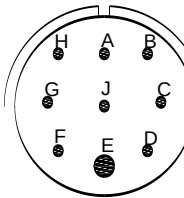
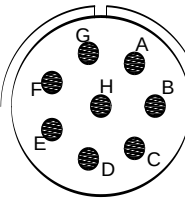
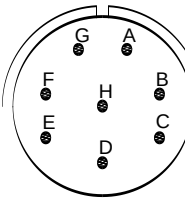
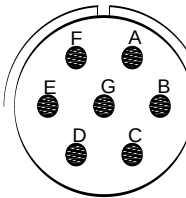
型号 Insert number	20-7	20-16	20-18	20-33
接触体数量 Number of contacts	8	9	9	11
插针规格 Contact size	16	7-16,2-12	6-16,3-12	16
使用等级 Service rating	A(C,F) D(A,B,G,H)	A	A	A

壳体 and 接触体排列 Shell size and contact arrangements (5)



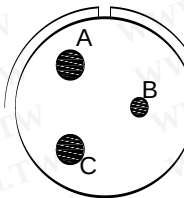
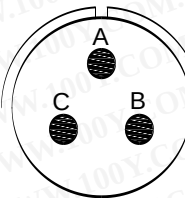
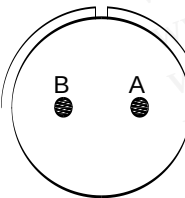
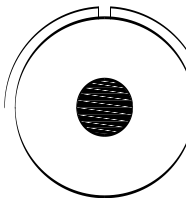
型号 Insert number	20-31	20-11	20-27	20-29	20A24
接触体数量 Number of contacts	11	13	14	17	24
插针规格 Contact size	16	16	16	16	20
使用等级 Service rating	INST	INST	INST	INST	INST

壳体 and 接触体排列 Shell size and contact arrangements (6)

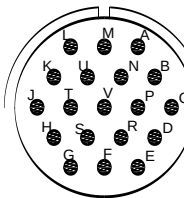
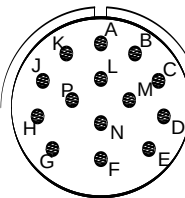
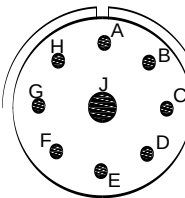
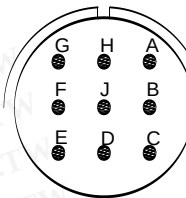


型号 Insert number	22-28	22-18	22-23	22-17
接触体数量 Number of contacts	7	8	8	9
插针规格 Contact size	12	16	12	8-16,1-12
使用等级 Service rating	A	A(C-E) D(A,B,F,G,H)	D(H) A(A-G)	D(A) A(B-J)

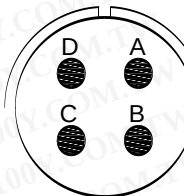
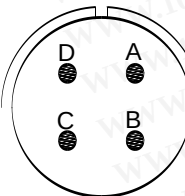
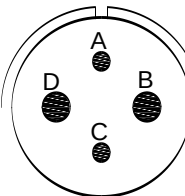
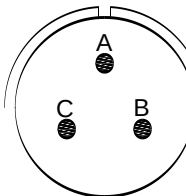
壳体22 Shell Size 22



型号 Insert number	22-7	22-11	22-2	22-6
接触体数量 Number of contacts	1	2	3	3
插针规格 Contact size	0	16	8	1-16,2-8
使用等级 Service rating	E	B	D	D

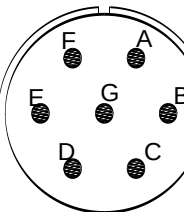
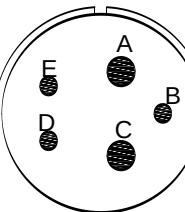
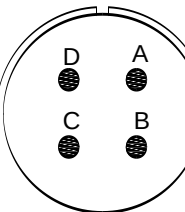
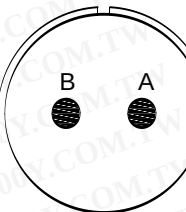


型号 Insert number	22-20	22-27	22-19	22-14
接触体数量 Number of contacts	9	9	14	19
插针规格 Contact size	16	8-16,1-8	16	16
使用等级 Service rating	A	D(J) A(A-H)	A	A

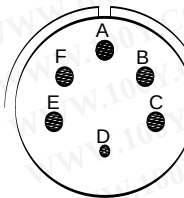
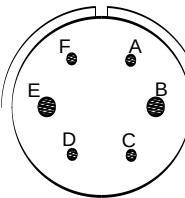
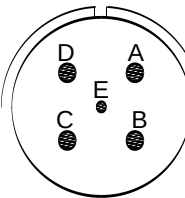
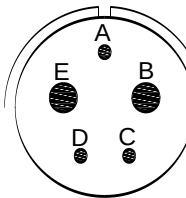


型号 Insert number	22-9	22-4	22-10	22-22
接触体数量 Number of contacts	3	4	4	4
插针规格 Contact size	12	2-12,2-8	16	8
使用等级 Service rating	E	A	E	A

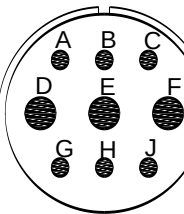
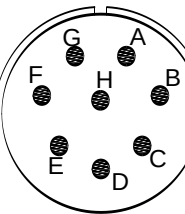
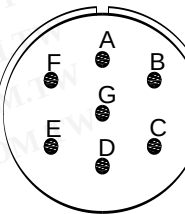
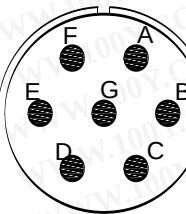
壳体24 Shell Size 24



型号 Insert number	24-9	24-22	24-12	24-2
接触体数量 Number of contacts	2	4	5	7
插针规格 Contact size	4	8	3-12,2-4	12
使用等级 Service rating	A	D	A	D

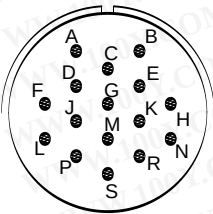
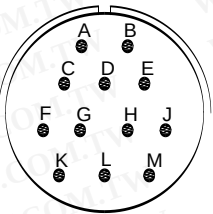
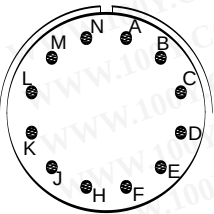
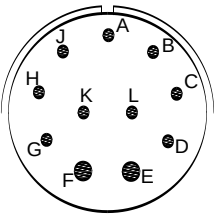


型号 Insert number	22-12	22-13	22-5	22-12
接触体数量 Number of contacts	5	5	6	6
插针规格 Contact size	3-16,2-8	1-16,4-12	4-16,2-12	1-16,5-12
使用等级 Service rating	D	A(A-D) D(E)	E	A(A,B,C,E,F) E(D)

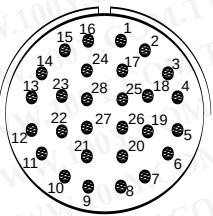
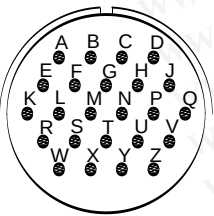
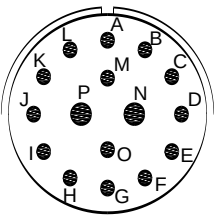


型号 Insert number	24-10	24-27	24-16	24-11
接触体数量 Number of contacts	7	7	8	9
插针规格 Contact size	8	16	8-12	6-12,3-8
使用等级 Service rating	A	E	A(B-F) D(A,G,H)	A

壳体 and 接触体排列 Shell size and contact arrangements (7)

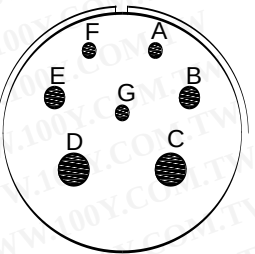
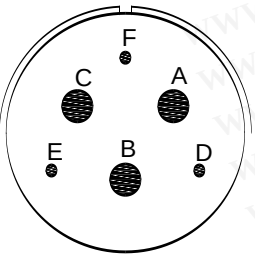
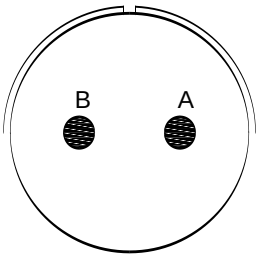


型号 Insert number	24-20	24-19	24A24	24-5
接触体数量 Number of contacts	11	12	12	16
插针规格 Contact size	9-16,2-12	12-16,6-12	12	16
使用等级 Service rating	D	A	A	A

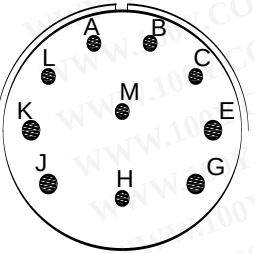
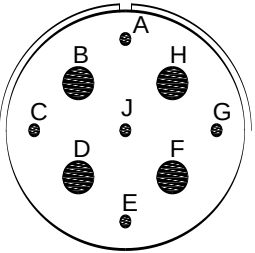
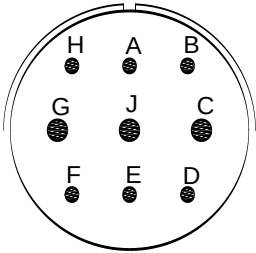


型号 Insert number	24-7	24-28	24A28
接触体数量 Number of contacts	16	24	28
插针规格 Contact size	14-16,2-12	16	16
使用等级 Service rating	A	INST	INST

壳体28 Shell Size 28

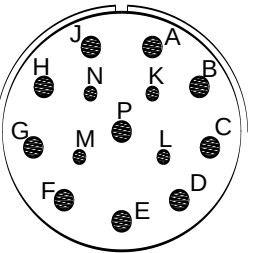
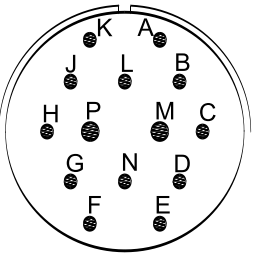
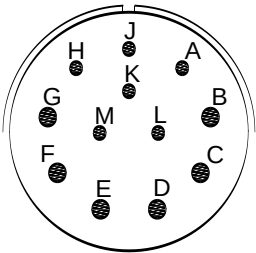


型号 Insert number	28-7	28-22	28-10
接触体数量 Number of contacts	2	6	7
插针规格 Contact size	4	3-16,3-4	3-12,2-8,2-4
使用等级 Service rating	D	D	D(G) A(A-F)



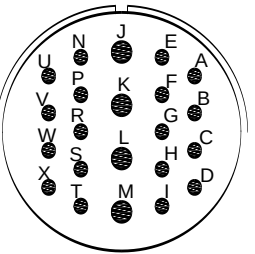
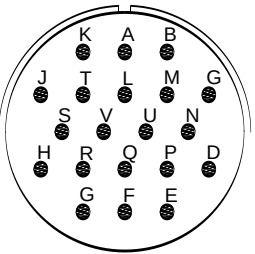
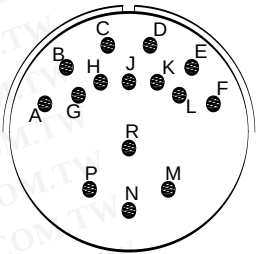
型号 Insert number	28-1	28A16	28-19
接触体数量 Number of contacts	9	9	10
插针规格 Contact size	6-12,3-8	5-16,4-4	6-16,4-12
使用等级 Service rating	D(A,E,J) A(B,C,D,F,G,H)	A	A(C,E,G,J,K,L) B(H,M) D(A,B)

壳体 and 接触体排列 Shell size and contact arrangements (8)

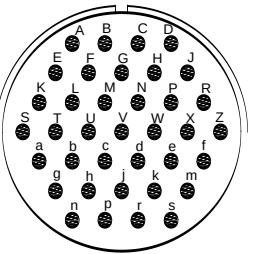
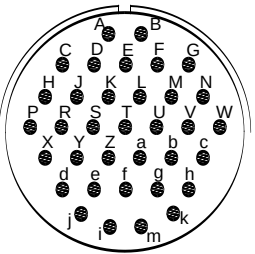
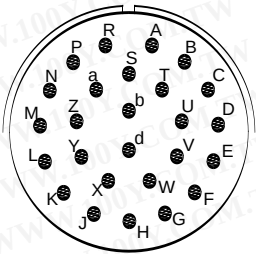


型号 Insert number	28-9	28-2	28-20
接触体数量 Number of contacts	12	14	14
插针规格 Contact size	6-16,6-12	12-16,2-12	4-16,10-12
使用等级 Service rating	D	D	A

型号 Insert number	28-9	28-2	28-20
接触体数量 Number of contacts	12	14	14
插针规格 Contact size	6-16,6-12	12-16,2-12	4-16,10-12
使用等级 Service rating	D	D	A



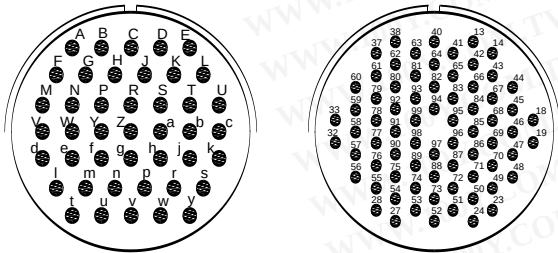
型号 Insert number	28-17	28-16	28-11
接触体数量 Number of contacts	15	20	22
插针规格 Contact size	16	16	18-16,4-2
使用等级 Service rating	A(A-L) B(R) D(M-P)	A	A



型号 Insert number	28-12	28-15	28-21
接触体数量 Number of contacts	26	35	37
插针规格 Contact size	16	16	16
使用等级 Service rating	A	A	A

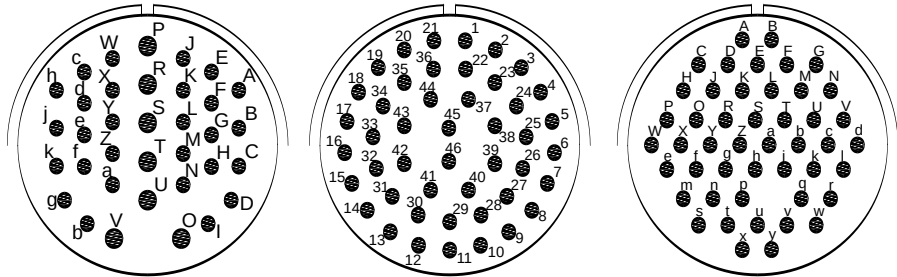
型号 Insert number	28-12	28-15	28-21
接触体数量 Number of contacts	26	35	37
插针规格 Contact size	16	16	16
使用等级 Service rating	A	A	A

壳体 and 接触体排列 Shell size and contact arrangements (9)



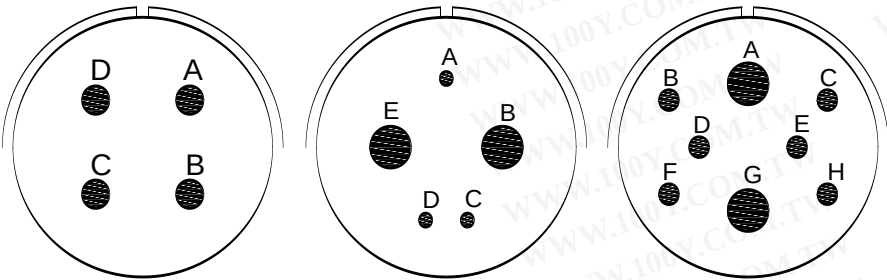
型号 Insert number	28A51	28-72
接触体数量 Number of contacts	43	72
插针规格 Contact size	16	20
使用等级 Service rating	A	INST

壳体 and 接触体排列 Shell size and contact arrangements (10)



型号 Insert number	32-7	32-73	32A47
接触体数量 Number of contacts	35	46	47
插针规格 Contact size	28-16,7-12	16	16
使用等级 Service rating	INST(A,B,h,i) A(其余)	A	A

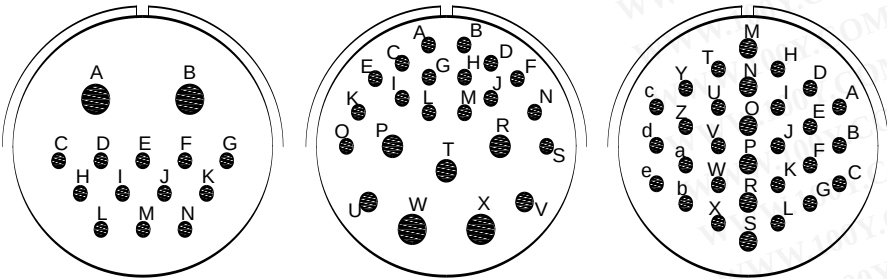
壳体32 Shell Size 32



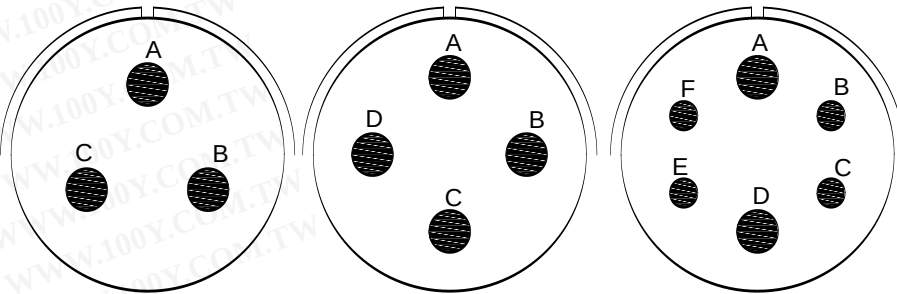
型号 Insert number	32-17	32-1	32-15
接触体数量 Number of contacts	4	5	8
插针规格 Contact size	4	3-12,2-0	2-0,6-12
使用等级 Service rating	D	E(A) D(B-E)	D

型号 Insert number	32A10或32-22	32-101
接触体数量 Number of contacts	54	101
插针规格 Contact size	16	20
使用等级 Service rating	A	INST

壳体36 Shell Size 36

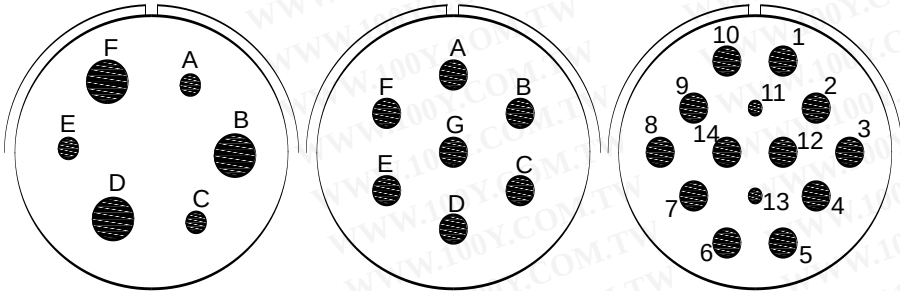


型号 Insert number	32-9	32-6	32-8
接触体数量 Number of contacts	16	23	32
插针规格 Contact size	12-16,2-4	2-12,3-8,2-4	6-12,2-8
使用等级 Service rating	D	A	A

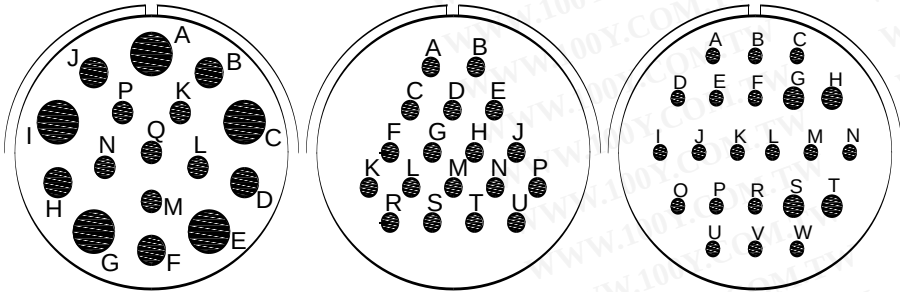


型号 Insert number	36-4	36-5	36-6
接触体数量 Number of contacts	3	4	6
插针规格 Contact size	0	0	4-4,2-0
使用等级 Service rating	A(B,C) C(A)	A	A

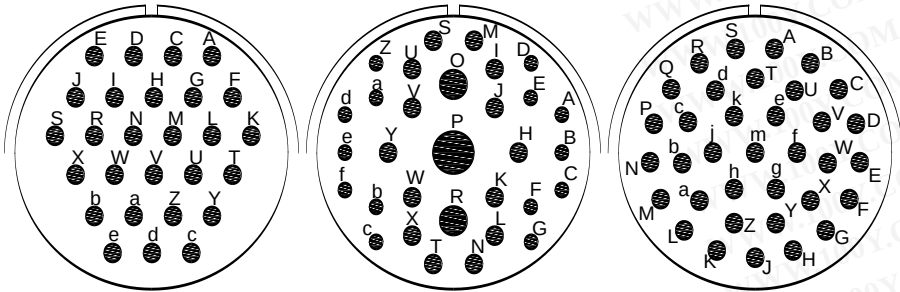
壳体 and 接触体排列 Shell size and contact arrangements (11)



型号 Insert number	36-3	36-77	36-78
接触体数量 Number of contacts	6	7	14
插针规格 Contact size	3-12,3-0	4	2-12,12-8
使用等级 Service rating	D	D	D

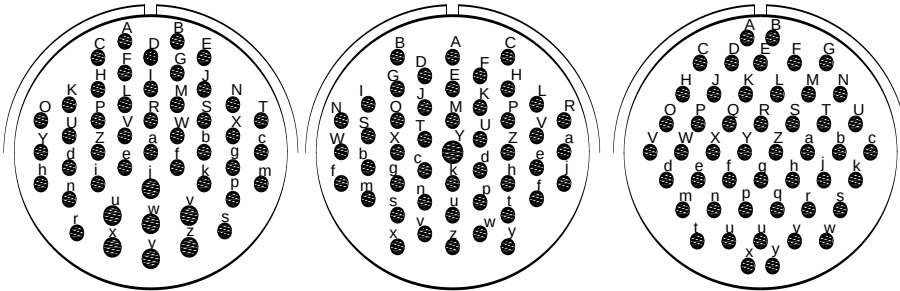


型号 Insert number	36-14	36A16	36-1
接触体数量 Number of contacts	16	18	22
插针规格 Contact size	6-16,5-12,5-8	12	18-16,4-12
使用等级 Service rating	D	A	D

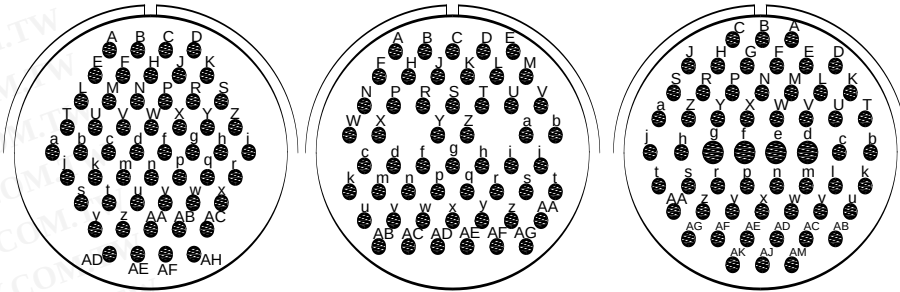


型号 Insert number	36A46	36-9	36-15
接触体数量 Number of contacts	27	31	35
插针规格 Contact size	12	14-16,14-12,2-8,1-4	16
使用等级 Service rating	A	A	D(M) A(其余)

壳体 and 接触体排列 Shell size and contact arrangements (12)

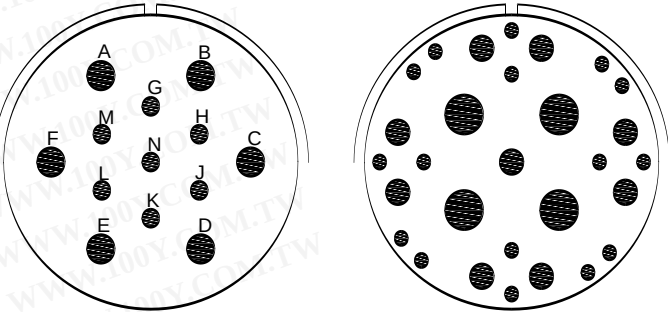


型号 Insert number	36-7	36-8	36-10
接触体数量 Number of contacts	47	47	48
插针规格 Contact size	40-16,7-12	46-16,1-12	16
使用等级 Service rating	A	A	A



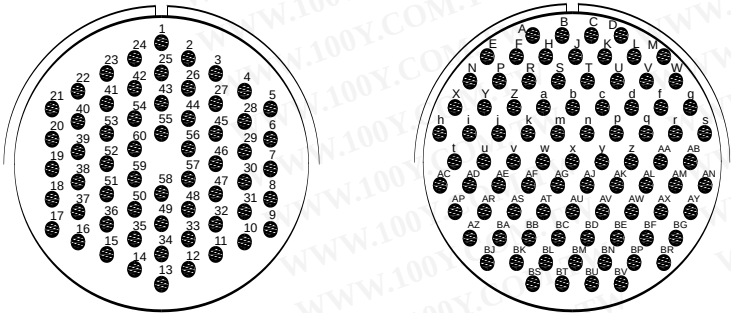
型号 Insert number	36-52	36A34	36A66
接触体数量 Number of contacts	52	52	56
插针规格 Contact size	16	16	56-16,4-12
使用等级 Service rating	A	A	D

壳体40 Shell Size 40



型号 Insert number	40A33	40-10
接触体数量 Number of contacts	13	29
插针规格 Contact size	7-8,6-4	16-16,9-8,4-4
使用等级 Service rating	A	A

壳体 and 接触体排列 Shell size and contact arrangements (13)



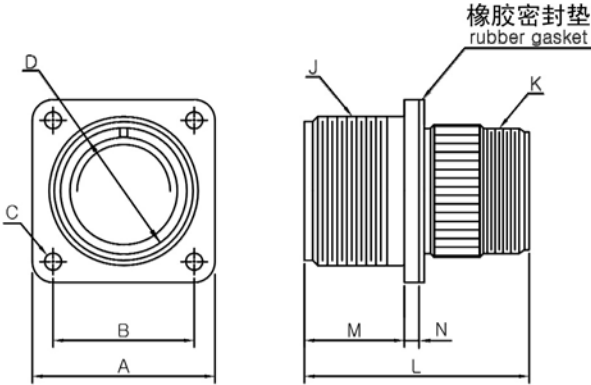
型号 Insert number	40A27	40-56
接触体数量 Number of contacts	60	85
插针规格 Contact size	16	16
使用等级 Service rating	A	A

MS3100A

系列MS3100 等级A
MS3100 Class A
墙式安装插座
Wall mounting receptacle

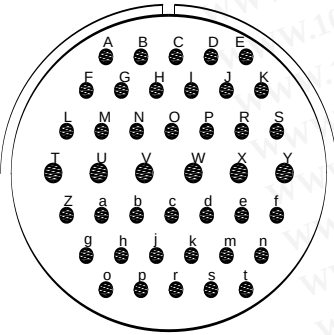


连接器尺寸 Contact Dimensions



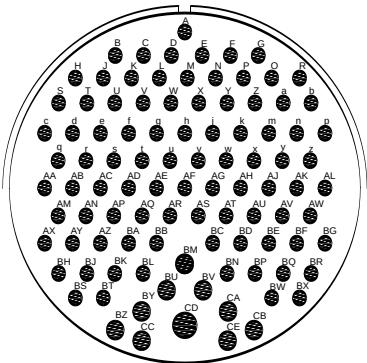
外壳号尺寸 shell size	□A ± 0.79	□B ± 0.13	φ C +0.25~ -0.13	φ D +0.38	J THD-2A	K THD-2A	L max	M +0.79	N	
									max	min
10SL	25.40	18.26	3.05	11.38	5/8-24UNEF	5/8-24UNEF	38.89	14.27	3.96	1.57
12S	27.79	20.62	3.05	14.15	3/4-20UNEF	5/8-24UNEF	42.88	14.27	3.96	1.57
12	27.79	20.62	3.05	14.15	3/4-20UNEF	5/8-24UNEF	52.37	19.05	3.96	1.57
14S	30.18	23.10	3.05	17.32	7/8-20UNEF	3/4-20UNEF	42.88	14.27	3.96	1.57
14	30.18	23.10	3.05	17.32	7/8-20UNEF	3/4-20UNEF	52.37	19.05	3.96	1.57
16S	32.54	24.61	3.05	20.50	1 -20UNEF	7/8-20UNEF	42.88	14.27	3.96	1.57
16	32.54	24.61	3.05	20.50	1 -20UNEF	7/8-20UNEF	52.37	19.05	3.96	1.57
18	34.93	26.97	3.05	23.67	1 1/8-18UNEF	1 -20UNEF	52.37	19.05	5.16	2.39
20	38.10	29.36	3.05	26.87	1 1/4-18UNEF	1 3/16-18UNEF	55.58	19.05	5.16	2.39
22	41.28	31.75	3.05	30.02	1 3/8-18UNEF	1 3/16-18UNEF	55.58	19.05	5.16	2.39
24	44.45	34.93	3.73	33.20	1 1/2-18UNEF	1 7/16-18UNEF	58.72	20.62	5.16	2.39
28	50.80	39.67	3.73	38.76	1 3/4-18UNS	1 7/16-18UNEF	58.72	20.62	5.16	2.39
32	57.15	44.45	4.39	45.11	2 -18UNS	1 3/4-18UNS	61.93	22.23	9.12	3.18
36	63.50	49.23	4.39	50.67	2 1/4-16UN	2 -18UNS	61.93	22.23	9.12	3.18
40	69.85	55.58	4.39	57.02	2 1/2-16UN	2 1/4-16UN	61.93	22.23	9.12	3.18

壳体44 Shell Size 44



型号 Insert number	44-1
接触体数量 Number of contacts	42
插针规格 Contact size	36-16,6-12
使用等级 Service rating	D

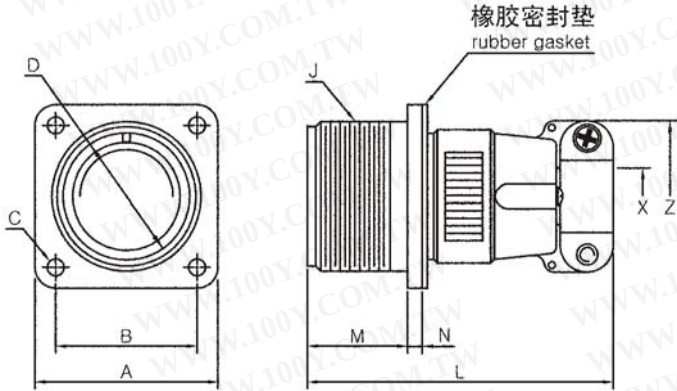
壳体48 Shell Size 48



型号 Insert number	48-5
接触体数量 Number of contacts	100
插针规格 Contact size	90-16,9-12,1-8
使用等级 Service rating	A

MS3100E,F

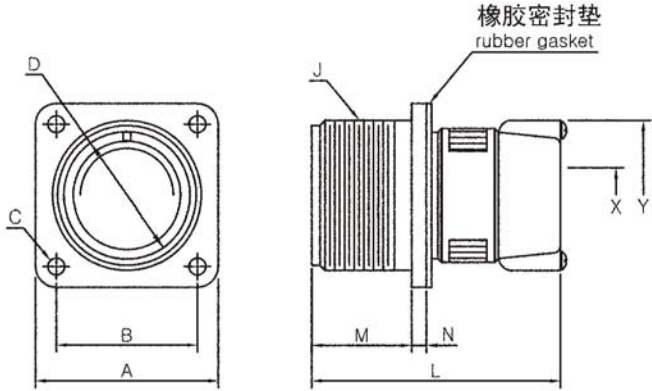
系列MS3100 等级 E, F
MS3100 Class E, F
墙式安装插座整体电缆夹（包括垫圈）
Wall mounting receptacle with integral cable clamp(grommet included)
用来使电线穿过墙壁或为舱壁提供断开装置或开关下使用
Used to carry wire thruwalls or bulkheads or to provide a means of
disconnection at a bulkhead



外壳号尺寸 shell size	□A ± 0.79	□B ± 0.13	φC +0.25~ -0.13	φD +0.38	J THD-2A	L max	M +0.79	N		X min	Z ±0.79
								max	min		
10SL	25.40	18.26	3.05	11.38	5/8-24UNEF	57.15	14. 27	3.96	1.98	7.14	22.23
12S	27.79	20.62	3.05	14.15	3/4-20UNEF	57.15	14. 27	3.96	1.98	7.14	22.23
12	27.79	20.62	3.05	14.15	3/4-20UNEF	66.68	19.05	3.96	1.98	7.14	22.23
14S	30.18	23.10	3.05	17.32	7/8-20UNEF	57.15	14. 27	3.96	1.98	10.31	26.97
14	30.18	23.10	3.05	17.32	7/8-20UNEF	66.68	19.05	3.96	1.98	10.31	26.97
16S	32.54	24.61	3.05	20.50	1 -20UNEF	57.15	14. 27	3.96	1.98	12.70	29.36
16	32.54	24.61	3.05	20.50	1 -20UNEF	66.68	19.05	3.96	1.98	12.70	29.36
18	34.93	26.97	3.05	23.67	1 1/8-18UNEF	68.28	19.05	5.16	2.39	13.49	31.75
20	38.10	29.36	3.05	26.87	1 1/4-18UNEF	69.85	19.05	5.16	2.39	16.66	37.31
22	41.28	31.75	3.05	30.02	1 3/8-18UNEF	69.85	19.05	5.16	2.39	19.05	37.31
24	44.45	34.93	3.73	33.20	1 1/2-18UNEF	75.41	20.62	5.16	2.39	19.84	42.88
28	50.80	39.67	3.73	38.76	1 3/4-18UNS	76.99	20.62	5.16	2.39	23.42	42.88
32	57.15	44.45	4.39	45.11	2 -18UNS	76.99	22.23	9.12	3.18	29.36	51.59
36	63.50	49.23	4.39	50.67	2 1/4-16UN	83.34	22.23	9.12	3.18	31.75	57.94

MS3100R

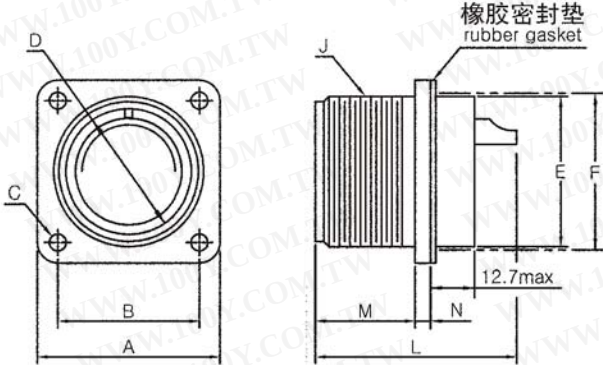
系列MS3100 等级 R
MS3100 Class R
墙式安装插座(包括垫圈)
Wall mounting receptacle(gronnet included)
R型有一个较短的、轻量级的护环除E, F型
R type has a shorter and lightweight endbell than E,F type



外壳号尺寸 shell size	□A ± 0.79	□B ± 0.13	φC +0.25~ -0.13	φD +0.38	J THD-2A	L max	M +0.79	N		X min	Z ±0.79
								max	min		
10SL	25.40	18.26	3.05	11.38	5/8-24UNEF	57.15	14. 27	3.96	1.98	7.14	23.83
12S	27.79	20.62	3.05	14.15	3/4-20UNEF	57.15	14. 27	3.96	1.98	7.14	23.83
12	27.79	20.62	3.05	14.15	3/4-20UNEF	66.68	19.05	3.96	1.98	7.14	23.83
14S	30.18	23.10	3.05	17.32	7/8-20UNEF	57.15	14. 27	3.96	1.98	10.31	28.58
14	30.18	23.10	3.05	17.32	7/8-20UNEF	66.68	19.05	3.96	1.98	10.31	28.58
16S	32.54	24.61	3.05	20.50	1 -20UNEF	57.15	14. 27	3.96	1.98	12.70	30.96
16	32.54	24.61	3.05	20.50	1 -20UNEF	66.68	19.05	3.96	1.98	12.70	30.96
18	34.93	26.97	3.05	23.67	1 1/8-18UNEF	68.28	19.05	5.16	2.39	13.49	35.71
20	38.10	29.36	3.05	26.87	1 1/4-18UNEF	69.85	19.05	5.16	2.39	16.66	38.10
22	41.28	31.75	3.05	30.02	1 3/8-18UNEF	69.85	19.05	5.16	2.39	19.05	39.67
24	44.45	34.93	3.73	33.20	1 1/2-18UNEF	75.41	20.62	5.16	2.39	19.84	46.84
28	50.80	39.67	3.73	38.76	1 3/4-18UNS	76.99	20.62	5.16	2.39	23.42	46.84
32	57.15	44.45	4.39	45.11	2 -18UNS	76.99	22.23	9.12	3.18	29.36	53.98
36	63.50	49.23	4.39	50.67	2 1/4-16UN	83.34	22.23	9.12	3.18	31.75	58.72

MS3102A

系列MS3102 等级 A
MS3102 Class A
盒式安装插座
Box mounting receptacle

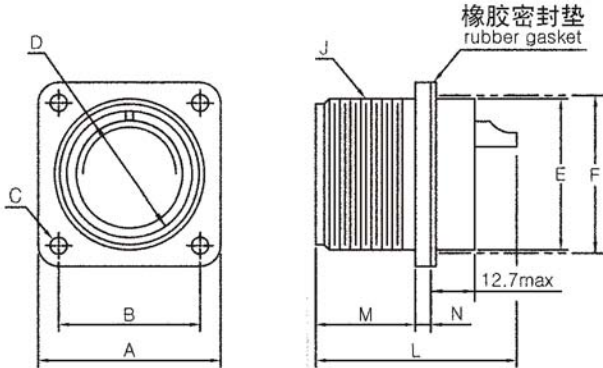


连接器尺寸 Contact Dimensions

外壳号尺寸 shell size	□A ±0.79	□B ±0.13	φC +0.25~-0.13	φD +0.38	φE -4.78	φF 安装孔 mounting hole	J THD-2A	L max	M +0.79	N	
										max	min
10SL	25.40	18.26	3.05	11.38	19.86	14.5	5/8-24UNEF	38.89	14.27	3.96	1.57
12S	27.79	20.62	3.05	14.15	19.86	16.0	3/4-20UNEF	42.88	14.27	3.96	1.57
12	27.79	20.62	3.05	14.15	19.86	16.0	3/4-20UNEF	52.37	19.05	3.96	1.57
14S	30.18	23.10	3.05	17.32	23.01	21.0	7/8-20UNEF	42.88	14.27	3.96	1.57
14	30.18	23.10	3.05	17.32	23.01	21.0	7/8-20UNEF	52.37	19.05	3.96	1.57
16S	32.54	24.61	3.05	20.50	26.21	22.0	1 -20UNEF	42.88	14.27	3.96	1.57
16	32.54	24.61	3.05	20.50	26.21	22.0	1 -20UNEF	52.37	19.05	3.96	1.57
18	34.93	26.97	3.05	23.67	29.36	25.0	1 1/8-18UNEF	52.37	19.05	5.16	2.39
20	38.10	29.36	3.05	26.87	32.56	29.5	1 1/4-18UNEF	55.58	19.05	5.16	2.39
22	41.28	31.75	3.05	30.02	35.71	32.0	1 3/8-18UNEF	55.58	19.05	5.16	2.39
24	44.45	34.93	3.73	33.20	38.91	32.0	1 1/2-18UNEF	58.72	20.62	5.16	2.39
28	50.80	39.67	3.73	38.76	45.26	41.0	1 3/4-18UNS	58.72	20.62	5.16	2.39
32	57.15	44.45	4.39	45.11	51.61	49.0	2 -18UNS	61.93	22.23	9.12	3.18
36	63.50	49.23	4.39	50.67	57.96	56.0	2 1/4-16UN	61.93	22.23	9.12	3.18
40	69.85	55.58	4.39	57.02	64.31	62.0	2 1/2-16UN	61.93	22.23	9.12	3.18

MS3102R

系列MS3102 等级 R
MS3102 Class R
盒式安装插座
Box mounting receptacle
用接线盒或作为一个组成部分
Used in junction boxes or as integral part of equipment



连接器尺寸 Contact Dimensions

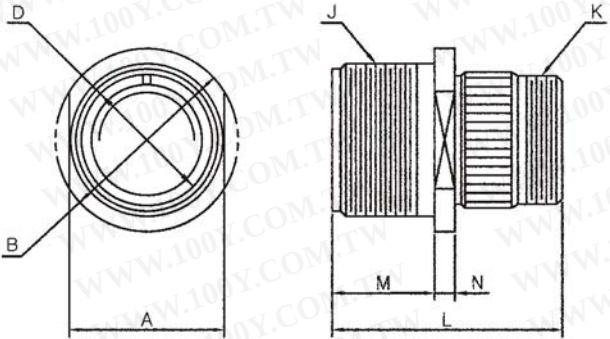
外壳号尺寸 shell size	□A ±0.79	□B ±0.13	φC +0.25~-0.13	φD +0.38	φE -4.78	φF 安装孔 mounting hole	J THD-2A	L max	M +0.79	N	
										max	min
10SL	25.40	18.26	3.05	11.38	19.86	20.62	5/8-24UNEF	30.18	14.27	3.96	1.57
12S	27.79	20.62	3.05	14.15	19.86	20.62	3/4-20UNEF	30.18	14.27	3.96	1.57
12	27.79	20.62	3.05	14.15	19.86	20.62	3/4-20UNEF	41.28	19.05	3.96	1.57
14S	30.18	23.10	3.05	17.32	23.01	23.83	7/8-20UNEF	30.18	14.27	3.96	1.57
14	30.18	23.10	3.05	17.32	23.01	23.83	7/8-20UNEF	41.28	19.05	3.96	1.57
16S	32.54	24.61	3.05	20.50	26.21	26.97	1 -20UNEF	30.18	14.27	3.96	1.57
16	32.54	24.61	3.05	20.50	26.21	26.97	1 -20UNEF	41.28	19.05	3.96	1.57
18	34.93	26.97	3.05	23.67	29.36	30.18	1 1/8-18UNEF	49.23	19.05	5.16	2.39
20	38.10	29.36	3.05	26.87	32.56	33.32	1 1/4-18UNEF	49.23	19.05	5.16	2.39
22	41.28	31.75	3.05	30.02	35.71	36.53	1 3/8-18UNEF	49.23	19.05	5.16	2.39
24	44.45	34.93	3.73	33.20	38.91	39.97	1 1/2-18UNEF	49.23	20.62	5.16	2.39
28	50.80	39.67	3.73	38.76	45.26	46.02	1 3/4-18UNS	49.23	20.62	5.16	2.39
32	57.15	44.45	4.39	45.11	51.61	52.37	2 -18UNS	49.23	22.23	9.12	3.18
36	63.50	49.23	4.39	50.67	57.96	58.72	2 1/4-16UN	49.23	22.23	9.12	3.18

MS3101A

系列MS3101 等级 A
MS3101 Class A
电缆对接式插头
Cable connecting plug



连接器尺寸 Contact Dimensions



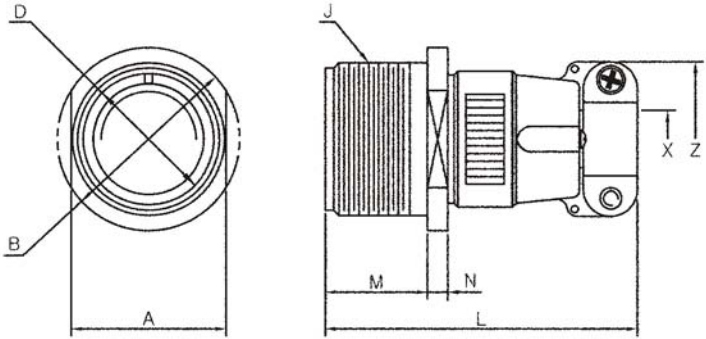
外壳号尺寸 shell size	A max	φB max	φD -0.38	J THD-2A	K THD-2A	L max	M +0.79	N	
								max	min
10SL	16.26	24.61	11.38	5/8-24UNEF	5/8-24UNEF	38.89	14.27	3.96	1.57
12S	19.43	26.97	14.15	3/4-20UNEF	5/8-24UNEF	42.88	14.27	3.96	1.57
12	19.43	26.97	14.15	3/4-20UNEF	5/8-24UNEF	52.37	19.05	3.96	1.57
14S	22.61	29.36	17.32	7/8-20UNEF	3/4-20UNEF	42.88	14.27	3.96	1.57
14	22.61	29.36	17.32	7/8-20UNEF	3/4-20UNEF	52.37	19.05	3.96	1.57
16S	25.78	31.75	20.50	1 -20UNEF	7/8-20UNEF	42.88	14.27	3.96	1.57
16	25.78	31.75	20.50	1 -20UNEF	7/8-20UNEF	52.37	19.05	3.96	1.57
18	28.96	34.14	23.67	1 1/8-18UNEF	1 -20UNEF	52.37	19.05	5.16	2.39
20	32.13	37.31	26.87	1 1/4-18UNEF	1 3/16-18UNEF	55.58	19.05	5.16	2.39
22	35.31	40.49	30.02	1 3/8-18UNEF	1 3/16-18UNEF	55.58	19.05	5.16	2.39
24	38.48	43.66	33.20	1 1/2-18UNEF	1 7/16-18UNEF	58.72	20.62	5.16	2.39
28	44.83	50.01	38.76	1 3/4-18UNS	1 7/16-18UNEF	58.72	20.62	5.16	2.39
32	51.18	56.36	45.11	2 -18UNS	1 3/4-18UNS	61.93	22.23	9.12	3.18
36	57.53	62.71	50.67	2 1/4-16UN	2 -18UNS	61.93	22.23	9.12	3.18
40	63.58	69.06	57.02	2 1/2-16UN	2 1/4-16UN	61.93	22.23	9.12	3.18

MS3101E,F

系列MS3101 等级 E,F
MS3101 Class E,F
电缆对接式插头(包括垫圈)
Cable connecting plug(grommet included)
用于电缆延伸的要求，对安装没有要求
Used for cable extension requirements,
where mounting provisions are unnecessary



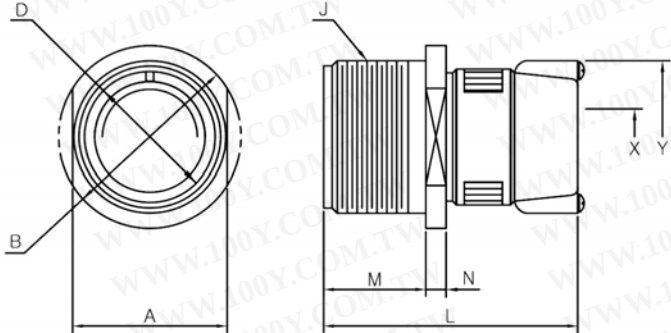
连接器尺寸 Contact Dimensions



外壳号尺寸 shell size	A max	φB max	φD -0.38	J THD-2A	L max	M +0.79	N		X min	Z ±0.79
							max	min		
10SL	16.26	26.97	11.38	5/8-24UNEF	57.15	14. 27	3.96	1.57	7.14	22.23
12S	19.43	26.97	14.15	3/4-20UNEF	57.15	14. 27	3.96	1.57	7.14	22.23
12	19.43	26.97	14.15	3/4-20UNEF	66.68	19.05	3.96	1.57	7.14	22.23
14S	22.61	29.36	17.32	7/8-20UNEF	57.15	14. 27	3.96	1.57	10.31	26.97
14	22.61	29.36	17.32	7/8-20UNEF	66.68	19.05	3.96	1.57	10.31	26.97
16S	25.78	32.54	20.50	1 -20UNEF	57.15	14. 27	3.96	1.57	12.70	29.36
16	25.78	32.54	20.50	1 -20UNEF	66.68	19.05	3.96	1.57	12.70	29.36
18	28.96	34.14	23.67	1 1/8-18UNEF	68.28	19.05	5.16	2.39	13.49	31.75
20	32.13	38.10	26.87	1 1/4-18UNEF	69.85	19.05	5.16	2.39	16.66	37.31
22	35.31	41.28	30.02	1 3/8-18UNEF	69.85	19.05	5.16	2.39	19.05	37.31
24	38.48	44.45	33.20	1 1/2-18UNEF	75.41	20.62	5.16	2.39	19.84	42.88
28	44.83	50.80	38.76	1 3/4-18UNS	76.99	20.62	5.16	2.39	23.42	42.88
32	51.18	57.15	45.11	2 -18UNS	76.99	22.23	9.12	3.18	29.36	51.59
36	57.53	63.50	50.67	2 1/4-16UN	83.34	22.23	9.12	3.18	31.75	57.94

MS3101R

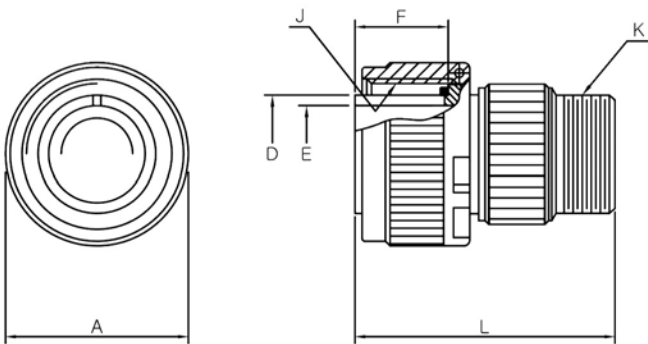
系列MS3101 等级 R
MS3101 Class R
电缆对接式插头(包括垫圈)
Cable connecting plug(grommet included)
R型有一个较短的、轻量级的护环除E, F型
R type has a shorter and lightweight endbell than E,F type



外壳号尺寸 shell size	A max	φ B max	φ D -0.38	J THD -2A	L max	M +0.79	N		X min	Z ± 0.79
							max	min		
10SL	16.26	26.97	11.38	5/8-24UNEF	46.69	14. 27	3.96	1.57	7.14	23.83
12S	19.43	26.97	14.15	3/4-20UNEF	46.69	14. 27	3.96	1.57	7.14	23.83
12	19.43	26.97	14.15	3/4-20UNEF	55.40	19.05	3.96	1.57	7.14	23.83
14S	22.61	29.36	17.32	7/8-20UNEF	46.69	14. 27	3.96	1.57	10.31	28.58
14	22.61	29.36	17.32	7/8-20UNEF	55.40	19.05	3.96	1.57	10.31	28.58
16S	25.78	32.54	20.50	1 -20UNEF	46.69	14. 27	3.96	1.57	12.70	30.96
16	25.78	32.54	20.50	1 -20UNEF	55.40	19.05	3.96	1.57	12.70	30.96
18	28.96	34.14	23.67	1 1/8-18UNEF	57.94	19.05	5.16	2.39	13.49	35.71
20	32.13	38.10	26.87	1 1/4-18UNEF	57.94	19.05	5.16	2.39	16.66	38.10
22	35.31	41.28	30.02	1 3/8-18UNEF	57.94	19.05	5.16	2.39	19.05	39.67
24	38.48	44.45	33.20	1 1/2-18UNEF	57.94	20.62	5.16	2.39	19.84	46.84
28	44.83	50.80	38.76	1 3/4-18UNS	57.94	20.62	5.16	2.39	23.42	46.84
32	51.18	57.15	45.11	2 -18UNS	58.98	22.23	9.12	3.18	29.36	53.98
36	57.53	63.50	50.67	2 1/4-16UN	58.98	22.23	9.12	3.18	31.75	58.72

MS3106A

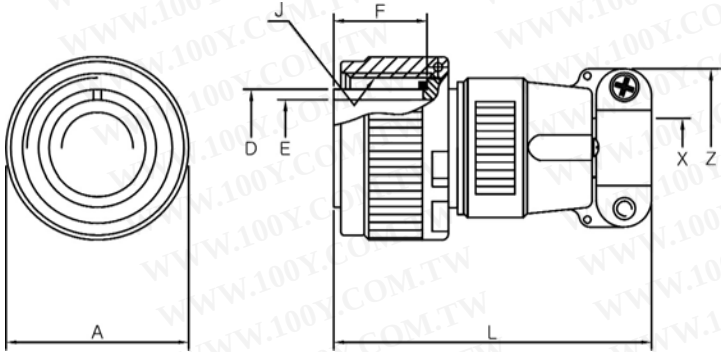
系列MS3106 等级 A
MS3106 Class A
直式插头
Straight plug



外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ± 0.13	J THD -2B	K THD -2A	L max
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	5/8-24UNEF	38.89
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	5/8-24UNEF	42.88
12	26.97	14.10	11.43	18.26	3/4-20UNEF	5/8-24UNEF	52.37
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	3/4-20UNEF	42.88
14	29.36	17.15	13.36	18.26	7/8-20UNEF	3/4-20UNEF	52.37
16S	31.75	20.45	16.54	13.49	1 -20UNEF	7/8-20UNEF	42.88
16	31.75	20.45	16.54	18.26	1 -20UNEF	7/8-20UNEF	52.37
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	1 -20UNEF	52.37
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	1 3/16-18UNEF	55.58
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	1 3/16-18UNEF	55.58
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	1 7/16-18UNEF	58.72
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	1 7/16-18UNEF	58.72
32	56.36	44.96	41.15	18.26	2 -18UNS	1 3/4-18UNS	61.93
36	62.71	50.29	46.69	18.26	2 1/4-16UN	2 -18UNS	61.93
40	69.06	56.64	52.25	18.26	2 1/2-16UN	2 1/4-16UN	61.93

MS3106E,F

系列MS3106 等级 E,F
MS3106 Class E,F
直式插头整体电缆夹和护环
Straight plug wigh integral cable clamp and grommet

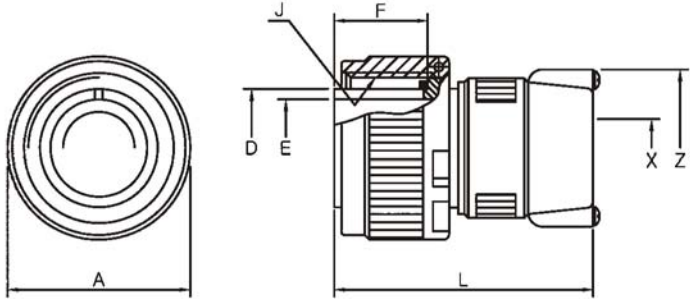


连接器尺寸 Contact Dimensions

外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ±0.13	J THD-2B	L max	X min	Z ±0.79
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	57.15	7.14	22.23
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	57.15	7.14	22.23
12	26.97	14.10	11.43	18.26	3/4-20UNEF	66.68	7.14	22.23
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	57.15	10.31	26.97
14	29.36	17.15	13.36	18.26	7/8-20UNEF	66.68	10.31	26.97
16S	31.75	20.45	16.54	13.49	1 -20UNEF	57.15	12.70	29.36
16	31.75	20.45	16.54	18.26	1 -20UNEF	66.68	12.70	29.36
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	68.28	13.49	31.75
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	69.85	16.66	37.31
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	69.85	19.05	37.31
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	75.41	19.84	42.88
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	76.99	23.42	42.88
32	56.36	44.96	41.15	18.26	2 -18UNS	76.99	29.36	51.59
36	62.71	50.29	46.69	18.26	2 1/4-16UN	83.34	31.75	57.94

MS3106R

系列MS3106 等级 R
MS3106 Class R
直式插头的作用和MS3106F一样
Straight plug with grommet indential in purpose to the MS3106F



连接器尺寸 Contact Dimensions

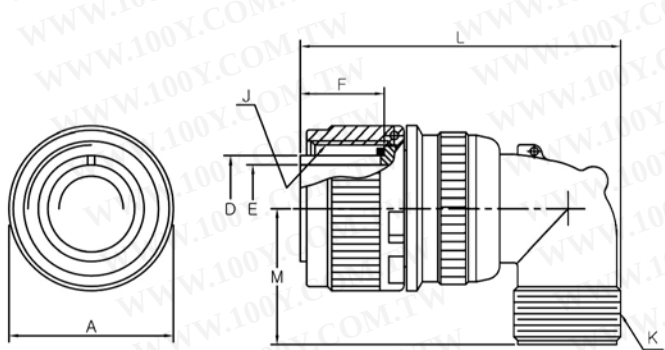
外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ±0.13	J THD-2B	L max	X min	Z ±0.79
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	46.69	7.14	22.23
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	46.69	7.14	22.23
12	26.97	14.10	11.43	18.26	3/4-20UNEF	55.40	7.14	22.23
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	46.69	10.31	26.97
14	29.36	17.15	13.36	18.26	7/8-20UNEF	55.40	10.31	26.97
16S	31.75	20.45	16.54	13.49	1 -20UNEF	46.69	12.70	29.36
16	31.75	20.45	16.54	18.26	1 -20UNEF	55.40	12.70	29.36
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	57.94	13.49	31.75
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	57.94	16.66	37.31
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	57.94	19.05	37.31
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	57.94	19.84	42.88
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	57.94	23.42	42.88
32	56.36	44.96	41.15	18.26	2 -18UNS	58.98	29.36	51.59
36	62.71	50.29	46.69	18.26	2 1/4-16UN	58.98	31.75	57.94

MS3108A

系列MS3108 等级 A
MS3108 Class A
90度插头
90° Angle plug



连接器尺寸 Contact Dimensions



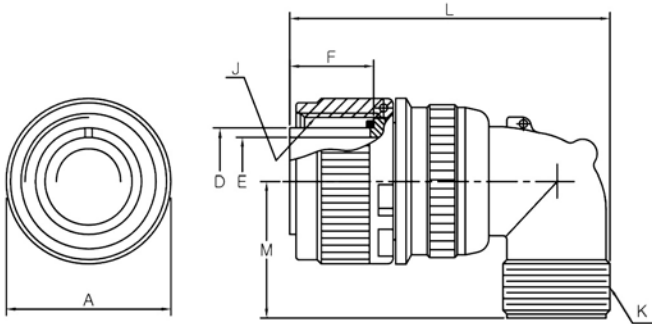
外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ±0.13	J THD -2B	K THD -2A	L max	M max
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	5/8-24UNEF	46.02	25.40
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	5/8-24UNEF	50.80	26.97
12	26.97	14.10	11.43	18.26	3/4-20UNEF	5/8-24UNEF	57.15	26.97
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	3/4-20UNEF	53.98	28.58
14	29.36	17.15	13.36	18.26	7/8-20UNEF	3/4-20UNEF	58.72	28.58
16S	31.75	20.45	16.54	13.49	1 -20UNEF	7/8-20UNEF	60.33	30.18
16	31.75	20.45	16.54	18.26	1 -20UNEF	7/8-20UNEF	65.07	30.18
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	1 -20UNEF	68.28	33.32
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	1 3/16-18UNEF	76.99	34.93
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	1 3/16-18UNEF	76.99	34.93
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	1 7/16-18UNEF	86.51	39.67
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	1 7/16-18UNEF	86.51	39.67
32	56.36	44.96	41.15	18.26	2 -18UNS	1 3/4-18UNS	95.25	47.63
36	62.71	50.29	46.69	18.26	2 1/4-16UN	2 -18UNS	100.03	52.37

MS3108E,R

系列MS3108 等级 E,R
MS3108 Class E,R
90度插头(包括垫圈)
90° Angle plug (grommet included)



连接器尺寸 Contact Dimensions

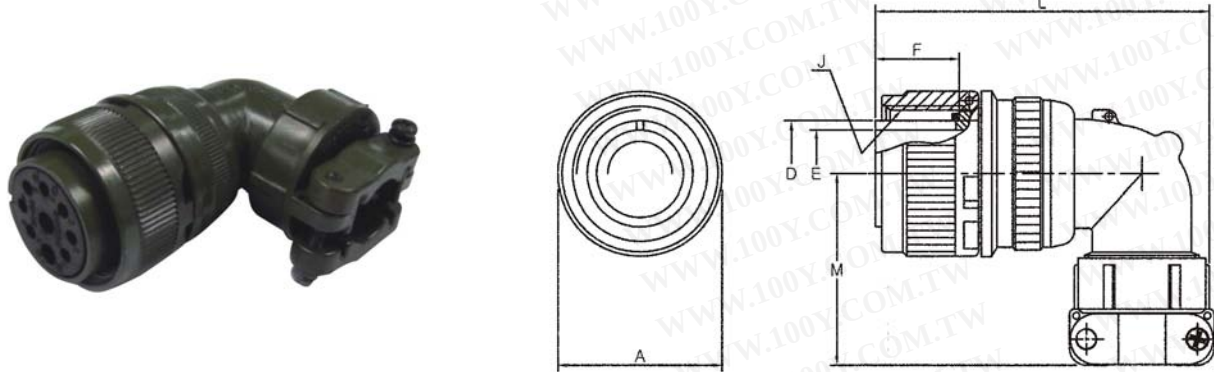


外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ±0.13	J THD -2B	K THD -2A	L max	M max
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	5/8-24UNEF	46.02	25.40
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	5/8-24UNEF	50.80	26.97
12	26.97	14.10	11.43	18.26	3/4-20UNEF	5/8-24UNEF	57.15	26.97
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	3/4-20UNEF	53.98	28.58
14	29.36	17.15	13.36	18.26	7/8-20UNEF	3/4-20UNEF	58.72	28.58
16S	31.75	20.45	16.54	13.49	1 -20UNEF	7/8-20UNEF	60.33	30.18
16	31.75	20.45	16.54	18.26	1 -20UNEF	7/8-20UNEF	65.07	30.18
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	1 -20UNEF	68.28	33.32
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	1 3/16-18UNEF	76.99	34.93
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	1 3/16-18UNEF	76.99	34.93
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	1 7/16-18UNEF	86.51	39.67
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	1 7/16-18UNEF	86.51	39.67
32	56.36	44.96	41.15	18.26	2 -18UNS	1 3/4-18UNS	95.25	47.63
36	62.71	50.29	46.69	18.26	2 1/4-16UN	2 -18UNS	100.03	52.37

MS3108F

系列MS3108 等级 F
MS3108 Class F
90度插头与M85049/41 电缆夹和垫圈
90° Angle plug with plug M85049/41 cable clamp and grommet

连接器尺寸 Contact Dimensions

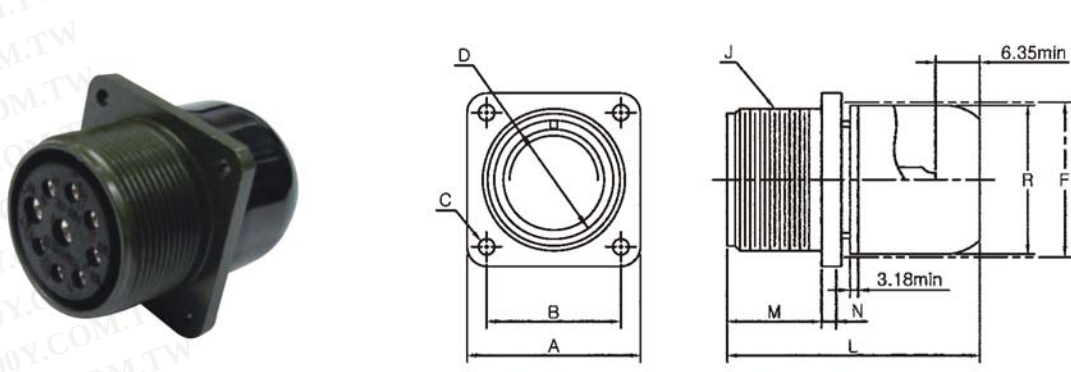


外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ±0.13	J THD -2B	L max	M max
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	55.58	38.10
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	55.58	38.10
12	26.97	14.10	11.43	18.26	3/4-20UNEF	64.29	38.10
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	58.72	40.49
14	29.36	17.15	13.36	18.26	7/8-20UNEF	68.28	40.49
16S	31.75	20.45	16.54	13.49	1 -20UNEF	61.11	42.88
16	31.75	20.45	16.54	18.26	1 -20UNEF	70.64	42.88
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	72.24	45.24
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	82.55	50.01
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	82.55	50.80
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	94.46	53.98
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	94.46	55.58
32	56.36	44.96	41.15	18.26	2 -18UNS	106.38	65.89
36	62.71	50.29	46.69	18.26	2 1/4-16UN	109.14	69.06

MS3013

灌胶密封盒式插座
Potting seal box mounting receptacle
提供一个弹性绝缘体和尼龙灌胶杯带螺纹的连接环
Supplied with a resilient insulator and nylon potting cup with a threaded attachment ring.

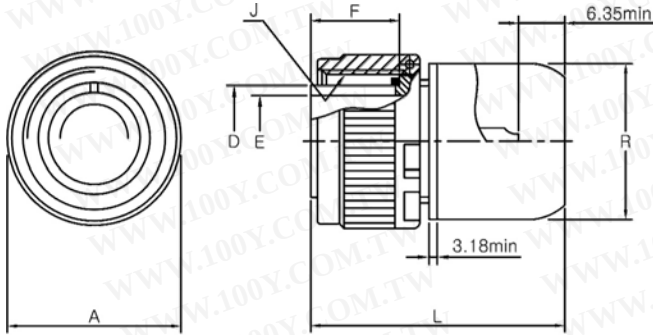
连接器尺寸 Contact Dimensions



外壳号尺寸 shell size	□A ±0.79	□B ±0.13	φ C +0.25~ -0.13	φ D +0.38	R max	φ F 安装孔 mounting hole	J THD -2A	L max	M +0.79	N	
										max	min
10SL	25.40	18.26	3.05	11.38	21.92	20.62	5/8-24UNEF	38.89	14.27	3.96	1.65
12S	27.79	20.62	3.05	14.15	21.92	20.62	3/4-20UNEF	42.88	14.27	3.96	1.65
12	27.79	20.62	3.05	14.15	21.92	20.62	3/4-20UNEF	52.37	19.05	3.96	3.58
14S	30.18	23.10	3.05	17.32	23.90	23.83	7/8-20UNEF	42.88	14.27	3.96	1.65
14	30.18	23.10	3.05	17.32	23.90	23.83	7/8-20UNEF	52.37	19.05	3.96	3.58
16S	32.54	24.61	3.05	20.50	27.08	26.97	1 -20UNEF	42.88	14.27	3.96	1.65
16	32.54	24.61	3.05	20.50	27.08	26.97	1 -20UNEF	52.37	19.05	3.96	3.58
18	34.93	26.97	3.05	23.67	30.66	30.18	1 1/8-18UNEF	52.37	19.05	5.16	3.58
20	38.10	29.36	3.05	26.87	33.83	33.32	1 1/4-18UNEF	55.58	19.05	5.16	3.58
22	41.28	31.75	3.05	30.02	37.01	36.53	1 3/8-18UNEF	55.58	19.05	5.16	3.58
24	44.45	34.93	3.73	33.20	40.18	39.97	1 1/2-18UNEF	55.58	20.62	5.16	5.74
28	50.80	39.67	3.73	38.76	46.53	46.02	1 3/4-18UNS	55.58	20.62	5.16	5.74
32	57.15	44.45	4.39	45.11	52.88	52.37	2 -18UNS	55.58	22.23	9.12	5.74
36	63.50	49.23	4.39	50.67	60.83	58.72	2 1/4-16UN	55.58	22.23	9.12	5.74
40	69.85	55.58	4.39	57.02	65.89	65.07	2 1/2-16UN	55.58	22.23	9.12	5.74

MS25183

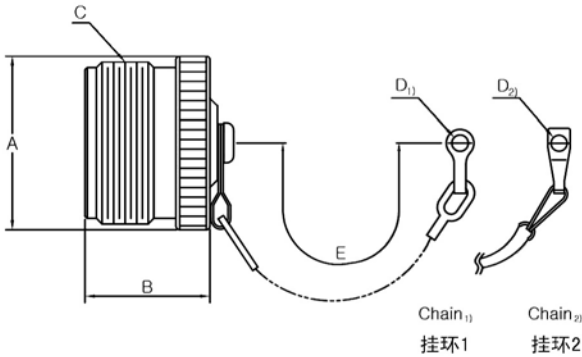
灌胶插头
Potting seal plug
提供一个弹性绝缘体和尼龙灌胶杯带螺纹的连接环
Supplied with a resilient insulator and nylon potting cup with a threaded attachment ring.



外壳号尺寸 shell size	φ A max	φ D -0.38	φ E min	F ± 0.13	J THD -2B	L max	R max
10SL	24.61	11.33	10.20	13.49	5/8-24UNEF	38.10	21.92
12S	26.97	14.10	11.43	13.49	3/4-20UNEF	38.10	21.92
12	26.97	14.10	11.43	18.26	3/4-20UNEF	48.41	21.92
14S	29.36	17.15	13.36	13.49	7/8-20UNEF	38.10	23.90
14	29.36	17.15	13.36	18.26	7/8-20UNEF	48.41	23.90
16S	31.75	20.45	16.54	13.49	1 -20UNEF	38.10	27.08
16	31.75	20.45	16.54	18.26	1 -20UNEF	48.41	27.08
18	34.14	23.62	19.71	18.26	1 1/8-18UNEF	48.41	30.66
20	37.31	26.67	23.67	18.26	1 1/4-18UNEF	55.58	33.83
22	40.49	29.85	26.06	18.26	1 3/8-18UNEF	55.58	37.01
24	43.66	33.02	29.24	18.26	1 1/2-18UNEF	55.58	40.18
28	50.01	38.61	34.80	18.26	1 3/4-18UNS	55.58	46.53
32	56.36	44.96	41.15	18.26	2 -18UNS	55.58	52.88
36	62.71	50.29	46.69	18.26	2 1/4-16UN	55.58	60.83
40	69.06	50.64	52.25	18.26	2 1/2-16UN	55.58	65.89

MS25042

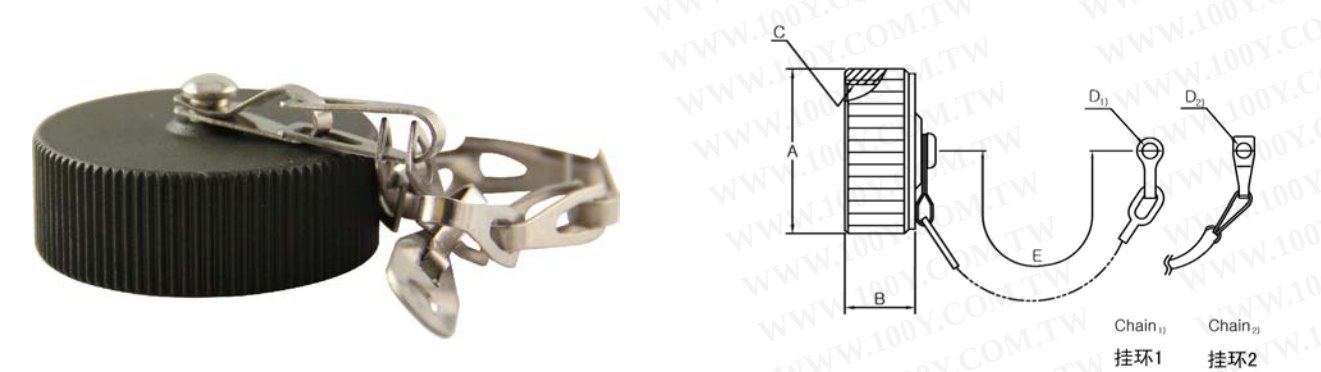
插头保护盖
Cover protecting for plug
用于保护MS3106和MS3108插头
Used to protect the MS3106 and MS3108 plug



订单号 order No.	外壳号尺寸 shell size	φ A max	B max	C THD -2B	φ D ₁ +0.15~-0.03	E ₁ ± 10.0	φ D ₂ +0.25~-0.13	E ₂ ± 1
25042-10D	10SL	17.45	16.66	5/8-24UNEF	3.80	125.0	3.96	101.6
25042-12D	12S&12	20.62	21.44	3/4-20UNEF	3.80	125.0	3.96	114.3
25042-14D	14S&14	23.80	21.44	7/8-20UNEF	3.80	125.0	3.96	114.3
25042-16D	16S&16	26.97	21.44	1 -20UNEF	3.80	125.0	3.96	114.3
25042-18D	18	30.15	21.44	1 1/8-18UNEF	3.80	173.0	3.96	114.3
25042-20D	20	33.32	21.44	1 1/4-18UNEF	3.80	173.0	4.75	127.0
25042-22D	22	36.50	21.44	1 3/8-18UNEF	3.80	173.0	4.75	137.9
25042-24D	24	39.67	21.44	1 1/2-18UNEF	3.80	173.0	4.75	196.9
25042-28D	28	46.02	21.44	1 3/4-18UNS	3.80	173.0	4.75	196.9
25042-32D	32	52.37	21.44	2 -18UNS	3.80	173.0	5.54	196.9
25042-36D	36	58.72	21.44	1 1/4-18UNS	3.80	173.0	5.54	196.9
25042-40D	40	65.07	21.44	2 1/2-16UN	3.80	173.0	5.54	196.9

MS25043

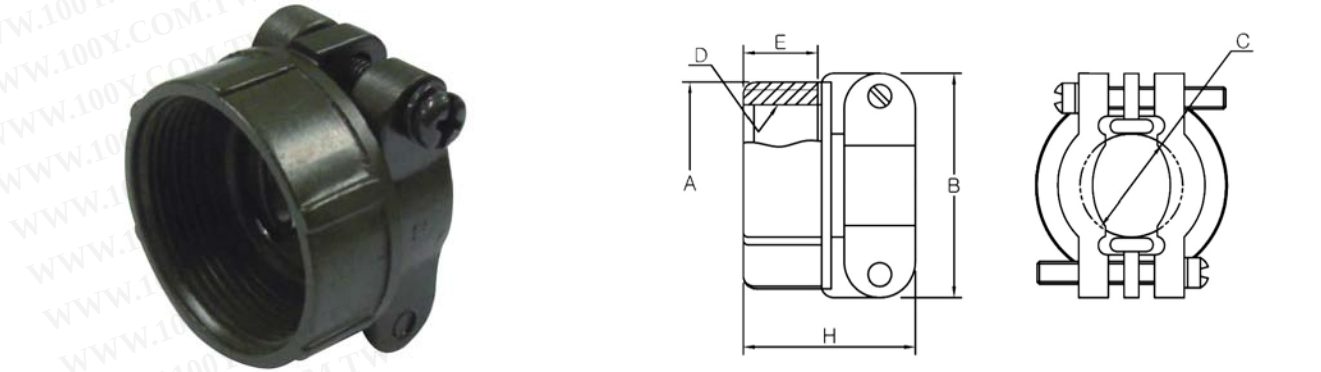
插座保护盖
Cover protecting for receptacle
用于保护MS3100,MS3101和MS3102插座
Used to protect the MS3100,MS3101 and MS3102 receptacles



订单号 order No.	外壳号尺寸 shell size	φ A max	B max	C THD-2B	φ D ₁ +0.15~-0.03	E ₁ ± 10.0	φ D ₂ +0.25~-0.13	E ₂ ± 1
25043-10D	10SL	20.70	11.91	5/8-24UNEF	3.80	125.0	3.56	101.6
25043-12D	12S&12	25.40	11.91	3/4-20UNEF	3.80	125.0	3.56	114.3
25043-14D	14S&14	28.58	11.91	7/8-20UNEF	3.80	125.0	3.56	114.3
25043-16D	16S&16	30.18	11.91	1 -20UNEF	3.80	125.0	3.56	114.3
25043-18D	18	34.14	11.91	1 1/8-18UNEF	3.80	173.0	3.56	114.3
25043-20D	20	37.31	11.91	1 1/4-18UNEF	3.80	173.0	3.56	127.0
25043-22D	22	40.49	11.91	1 3/8-18UNEF	3.80	173.0	3.56	137.9
25043-24D	24	43.66	11.91	1 1/2-18UNEF	3.80	173.0	4.34	196.9
25043-28D	28	50.01	13.49	1 3/4-18UNS	3.80	173.0	4.34	196.9
25043-32D	32	56.36	13.49	2 -18UNS	3.80	173.0	4.75	196.9
25043-36D	36	62.71	13.49	1 1/4-18UNS	3.80	173.0	4.75	196.9
25043-40D	40	69.06	13.49	2 1/2-16UN	3.80	173.0	4.75	196.9

MS85049/41

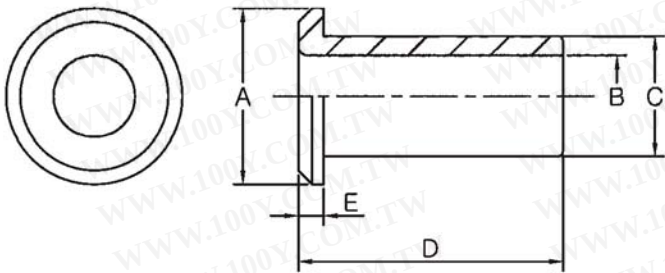
线夹
Cable clamp
在插头和插座，与外部管道螺纹端盖
For plugs and receptacles that have an end bell with external conduit threads



订单号 order No.	外壳号尺寸 shell size	A ± 0.79	B ± 0.79	φ C max	D THD-2B	E ± 0.41	H ± 0.79
85049/41-4A	10SL,12S&12	20.62	22.23	7.92	5/8-24UNEF	10.31	20.62
85049/41-6A	14S&14	24.61	26.97	11.13	3/4-20UNEF	10.31	22.23
85049/41-8A	16S&16	27.79	29.36	14.27	7/8-20UNEF	10.31	23.83
85049/41-10A	18	30.18	31.75	15.88	1 -20UNEF	10.31	23.83
85049/41-12A	20,22	34.93	37.31	19.05	1 3/16-18UNEF	10.31	23.83
85049/41-16A	24,28	42.06	42.88	23.83	1 7/16-18UNEF	10.31	26.19
85049/41-20A	32	51.59	51.59	31.75	1 3/4-18UNS	11.91	27.79
85049/41-24A	36	56.36	57.94	34.93	2 -18UNS	13.49	29.36

MS3420

套管用于尾夹处
Bushing for cable clamps



订单号 order No.	外壳号尺寸 shell size	ϕA_1 ±0.41	ϕA_2 ±0.41	ϕB ±0.41	ϕC ±0.41	D ±0.79	E_1 ±0.41	E_2 ±0.41
MS3420-4	10SL,12S&12	14.66	12.83	5.59	7.67	69.85	1.60	1.57
MS3420-6	14S&14	17.76	15.72	7.92	10.85	66.68	1.60	1.57
MS3420-8	16S&16	20.96	18.90	11.10	14.02	63.50	1.60	1.57
MS3420-10	18	24.09	22.58	14.27	15.62	60.33	1.60	1.57
MS3420-12	20,22	27.75	27.53	15.88	18.80	57.15	1.60	1.57
MS3420-16	24,28	34.79	33.38	19.05	23.55	53.98	1.60	1.57
MS3420-20	32	42.93	40.59	23.80	31.50	50.80	1.60	1.57
MS3420-24	36	49.26	46.91	31.75	34.67	47.63	1.60	1.57

注：插头MS3106 MS3108的金属软管式连接螺帽有货，欢迎垂询。
Note : The Coupling nut for metal hose available for MS3106 and MS3108 plug,welome your enquiry.

组成部分 Components

	3106R 直式插头 straight Plug	3106E/F 直式插头 straight Plug	3108E/R 90度插头 90°Plug	3108F 90度插头 90°Plug	25183
护环 End bell					
套环 Ferrule					
封线体 Grommet					
连接螺帽 Coupling Nut					
插针 Pin Contacts					
绝缘体 Insulator					
中继接头 Barrel					
O 型圈 O-Ring					

★O 型圈也适用于3106E/F和3108F
★O-Ring is also applied in 3106E/F & 3108F