Plugs & Receptacles Match Map
插头插座适配图

FIGURE 1
图 1

C - Straight Plug
C – 直形插头



W - Angled Plug
W – 弯形插头



L - Circular Flange Receptacle
L – 圆形法兰插座



F - Square Flange Receptacle
F – 方形法兰插座



LC - Free Receptacle
LC – 移动式插座



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Order Number Explanation
产品订货代码

Series Prefix 连接器型号	Shell Size 壳体规格	Contact Type 接触件类型	Qty. of Contacts 芯数	Plug or Receptacle 插头或插座	Sealed Cable Diameter 密封电缆直径
XS	12	J	3	C	Ⅱ
XS系列 XS Series	4种面板安装开孔直径(mm) 10、12、16、18 4 Mounting hole diameters(mm) 10、12、16、18	镀银接触件: Silver Plating Contacts: J–插针 Pin K–插孔 Socket 镀金接触件: Gold Plating Contacts: JC–插针 Pin KC–插孔 Socket	详见表3 (a、b、c、d) 芯数排布图 see table 3 (a, b, c, d) for details of contacts arrangement	插头: C – 直形插头 W – 弯管插头 插座: F – 方形法兰插座 L – 圆形法兰插座 LC – 移动式插座 Plug: C–Straight Plug W–Angled Plug Recptacle: F–Square Flange Receptacle L–Circular Flange Receptacle LC–Free Receptacle	类别: Ⅰ、Ⅱ(见P11图11) Ⅰ、Ⅱ(see figure 11 on page 11)

EXAMPLE:

例：

① Plug: XS12J3C Ⅰ
Receptacle: XS12K3L
Abbr: XS12J3C Ⅰ/K3L

插头: XS12J3C Ⅰ
插座: XS12K3L
缩写: XS12J3C Ⅰ/K3L

To order IP67 shield XS connector, please add "-EMC" to end of part number
订购屏蔽式的，需在插头代码后加注 "-EMC"

FIGURE 2
图 2

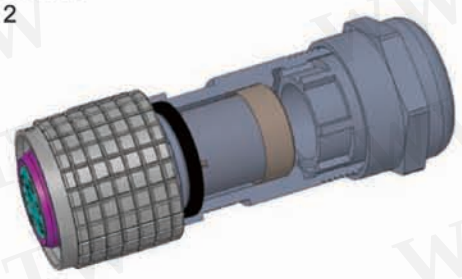
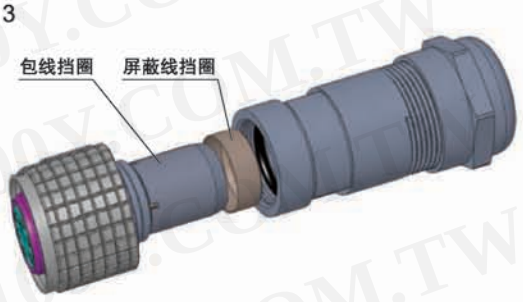


FIGURE 3
图 3



Note:Please contact sales to order IP67 shield XS for consultation
注：订购屏蔽式的XS系列IP67连接器如需咨询，请联系本公司销售部

Product Feature
产品特点

Design Standard: IEC/EN 61984
设计依据：IEC/EN 61984

Material: Halogen free and flame retardant material;Compliant to RoHS
材料：采用符合RoHS指令的无卤阻燃材料。

Shell: Copper alloy, nickel plating; Salty spray test > 96 hours; Protection degree IP67
外壳：铜合金、表面电镀镍, 耐盐雾试验>96小时, 外壳防护等级：IP67

Contact: Copper with silver plating (Optional Gold Plating)
接触件：黄铜表面镀银 (可定制镀金)

Insulator: Termosetting plastics
绝缘体：热固性塑料

Service Ambient Conditions
使用环境条件

Ambient temperature: Lower limit -40℃ Upper limit+100℃
环境温度：下限-40℃ 上限+100℃

Relative humidity: 95% at +40 ± 2℃
相对湿度：+40℃达95% ± 2%

Vibration: 10 ~ 500Hz 100m/s² acceleration
振 动：10 ~ 500Hz 加速度 100m/s²

Shock: 40 ~ 80 cycles/min 250m/s² acceleration
冲 击：40 ~ 80次/min 加速度达 250m/s²

Insulating Material Flammability: UL94 V-0
绝缘材料阻燃等级：UL94 V-0

Mechanical Life: >500 Cycles
机械寿命：>500次

Rated Current, Contact Resistance, Wire Gauge For Soldering
额定电流、接触电阻、焊接导线截面积

TABLE 1 表 1

Contact diameter (mm) 接触对直径(mm)	Rated current (A) 额定电流(A)	Contact resistance (mΩ) 接触电阻(mΩ)	Wire gauge for soldering (mm²) 焊接导线截面积(mm²)	AWG
ϕ0.8	3	⩽ 10	⩽ 0.5	#20
ϕ1.0	5	⩽ 5	⩽ 0.785	#18
ϕ1.5	10	⩽ 2.5	⩽ 1.75	#15
ϕ1.6	13	⩽ 2.0	⩽ 2	#14
ϕ2.5	25	⩽ 1	⩽ 4.9	#11

Insulation Resistance
绝缘电阻

TABLE 2 表 2

Service Condition 工作环境	Normal 常态下	Damp Heat 湿 热
Insulation resistance 绝缘电阻	⩾5000 (MΩ)	⩾1000 (MΩ)

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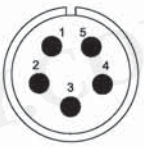
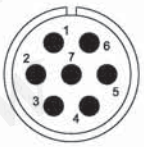
Contacts Arrangement
芯数排布图

View from mating face of Pin insert
耦合面为插针(J)的视图

TABLE 3(a) 表 3(a)

XS 10				
Qty.of contacts 芯数	2	3	4	5
Contacts arrangement 芯数排布图				
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 1.0 × 2	ϕ 1.0 × 3	ϕ 0.8 × 4	ϕ 0.8 × 5
Rated voltage 额定电压	250V	250V	200V	125V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2
Withstand voltage 耐 压	2500V	2500V	2500V	1500V

TABLE 3(b) 表 3(b)

XS 12						
Qty.of contacts 芯数	2	3	4	5	6	7
Contacts arrangement 芯数排布图						
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 1.6 × 2	ϕ 1.0 × 3	ϕ 1.0 × 4	ϕ 1.0 × 5	ϕ 1.0 × 6	ϕ 1.0 × 7
Rated voltage 额定电压	250V	250V	200V	200V	125V	125V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2	2	2
Withstand voltage 耐 压	2500V	2500V	2500V	2500V	1500V	1500V

View from mating face of Pin insert
耦合面为插针(J)的视图

TABLE 3(c) 表 3(c)

XS 16				
Qty.of contacts 芯数	2	2a	3	3a
Contacts arrangement 芯数排布图				
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 1.5 × 2	ϕ 2.5 × 2	ϕ 1.0 × 3	ϕ 1.5 × 3
Rated voltage 额定电压	250V	250V	250V	250V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2
Withstand voltage 耐　压	2500V	2500V	2500V	2500V

XS 16				
Qty.of contacts 芯数	3b	4	4a	5
Contacts arrangement 芯数排布图				
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 2.5 × 3	ϕ 1.0 × 4	ϕ 1.5 × 4	ϕ 1.0 × 5
Rated voltage 额定电压	250V	250V	250V	250V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2
Withstand voltage 耐　压	2500V	2500V	2500V	2500V

View from mating face of Pin insert
耦合面为插针(J)的视图

TABLE 3(c) 表 3(c)

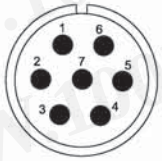
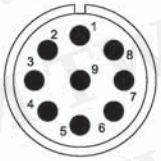
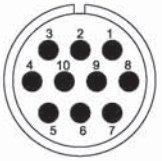
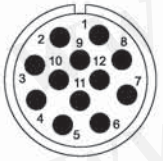
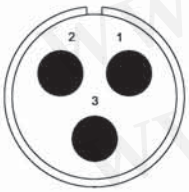
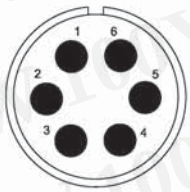
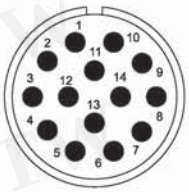
XS 16					
Qty.of contacts 芯数	7	8	9	10	12
Contacts arrangement 芯数排布图					
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 1.0 × 7	ϕ 1.0 × 8	ϕ 1.0 × 9	ϕ 1.0 ×10	ϕ 1.0 ×12
Rated voltage 额定电压	250V	250V	250V	200V	200V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2	2
Withstand voltage 耐　压	2500V	2500V	2500V	2500V	2500V

TABLE 3(d) 表 3(d)

XS 18				
Qty.of contacts 芯数	3	6	8	14
Contacts arrangement 芯数排布图				
Diameter of contacts × Qty. 接触对直径 × 数量	ϕ 2.5 × 3	ϕ 1.6 × 6	ϕ 1.6 × 3 ϕ 1.0 × 5	ϕ 1.0 × 14
Rated voltage 额定电压	250V	250V	200V	200V
Overvoltage category 过电压类别	Ⅱ	Ⅱ	Ⅱ	Ⅱ
Degree of pollution 污染等级	2	2	2	2
Withstand voltage 耐　压	2500V	2500V	2500V	2500V

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Plug Drawings & Dimensions
插头外形尺寸图

C - Straight
C – 直形

FIGURE 4 图 4



(a)

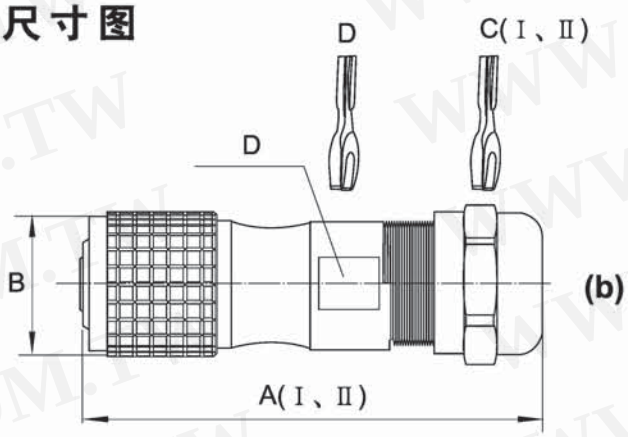


TABLE 4 表 4

Unit 单位：mm

Series XS 型 号 XS	A Ⅰ (max)	A Ⅱ (max)	B	C Ⅰ	C Ⅱ	D
10	-	50	ϕ 14	-	14	12 × 6
12	50	56	ϕ 17	14	17	14 × 7
16	56	62	ϕ 22	17	22	18 × 8
18	62	64	ϕ 24.5	22	24	21 × 9

W - Angled
W – 弯形

FIGURE 5 图 5



(a)

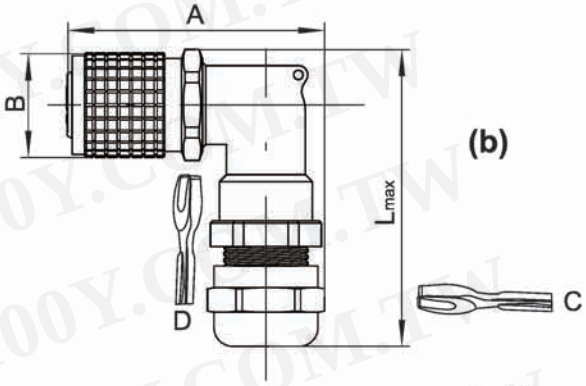


TABLE 5 表 5

Unit 单位：mm

Series XS 型 号 XS	A	B	C	D	Lmax
10	41	Ø14	14	14	51
12	45	Ø17	17	17	56.5
16	50	Ø22	20	22	60.5
18	52.5	Ø24.5	22	24	67

Receptacle Drawings & Dimensions
插座外形尺寸图

Square Flange
方形法兰

FIGURE 6 图 6

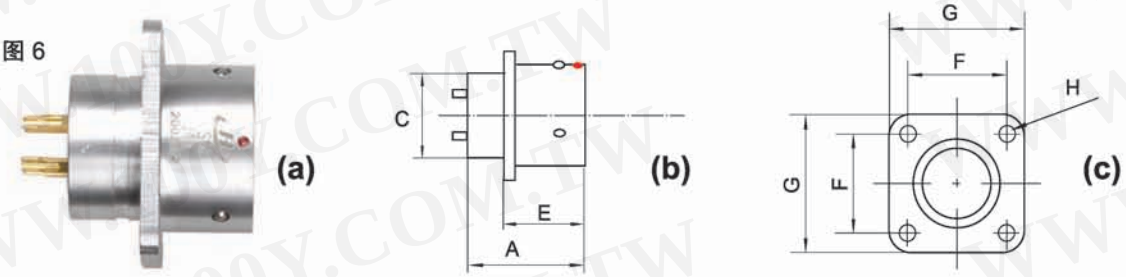


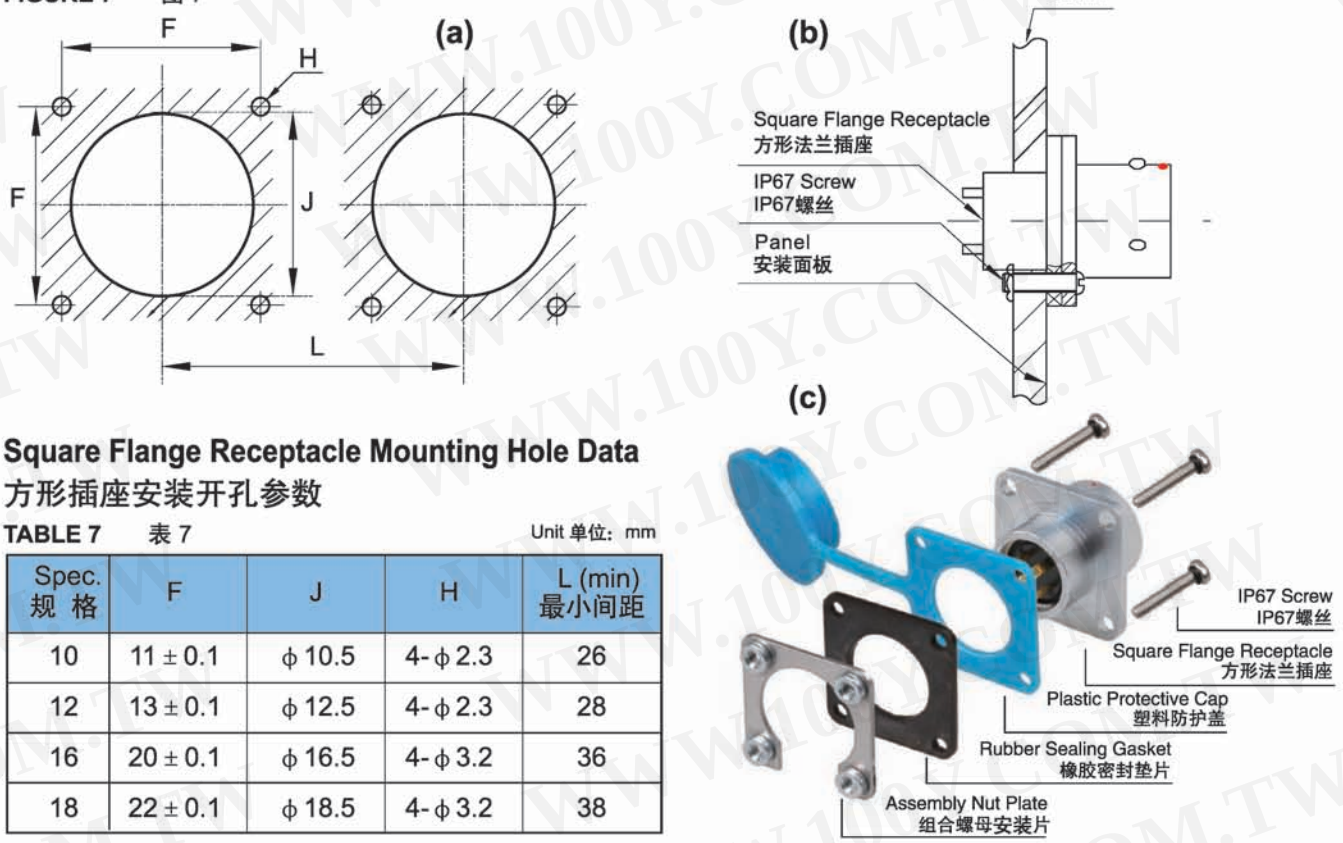
TABLE 6 表 6

Unit 单位：mm

Series XS 型 号 XS	A	C	E	F	G	H
10	20	ϕ10	11.5	11 ± 0.1	16	4-ϕ2.3
12	20	ϕ12	11.5	13 ± 0.1	18	4-ϕ2.3
16	20	ϕ16	12	20 ± 0.1	26	4-ϕ3.2
18	20	ϕ18	12	22 ± 0.1	28	4-ϕ3.2

Mounting Hole dimensions
面板开孔尺寸

FIGURE 7 图 7



Square Flange Receptacle Mounting Hole Data
方形插座安装开孔参数

TABLE 7 表 7

Unit 单位：mm

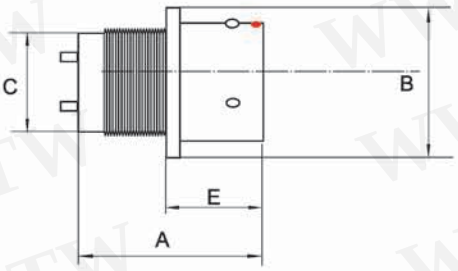
Spec. 规 格	F	J	H	L (min) 最小间距
10	11 ± 0.1	ϕ10.5	4-ϕ2.3	26
12	13 ± 0.1	ϕ12.5	4-ϕ2.3	28
16	20 ± 0.1	ϕ16.5	4-ϕ3.2	36
18	22 ± 0.1	ϕ18.5	4-ϕ3.2	38

Circular Flange
圆形法兰

FIGURE 8 图 8



(a)



(b)

TABLE 8 表 8

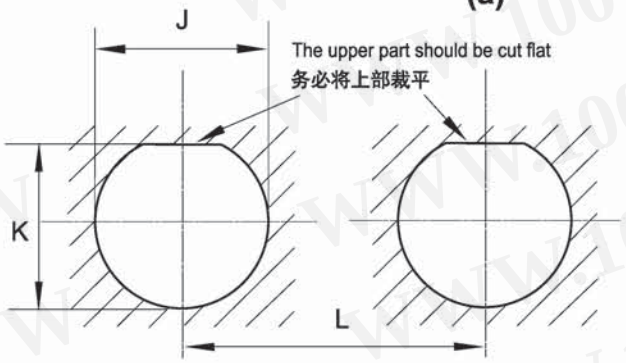
Unit 单位：mm

Series XS 型 号 XS	A	B	C	E
10	20	ϕ15	M10 × 0.75	11
12	20	ϕ18	M12 × 0.75	10.5
16	20	ϕ23	M16 × 0.75	11
18	20	ϕ25	M18 × 1	11

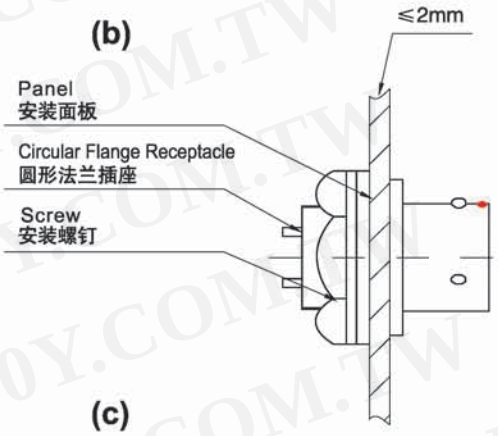
Mounting Hole dimensions
面板开孔尺寸

FIGURE 9 图 9

(a)



(b)



(c)



Circular Flange Receptacle Mounting Hole Data
圆形插座安装开孔参数

TABLE 9 表 9

Unit 单位：mm

Spec. 规 格	J	K	L (min) 最小间距
10	ϕ10	9.5	26
12	ϕ12	11.5	30
16	ϕ16	15.5	36
18	ϕ18	17.5	38

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Plug Assembling
插头装配

安全提示
此是不允许被人擅自打开的**不可拆卸部件**，
请严格按图示规范安装

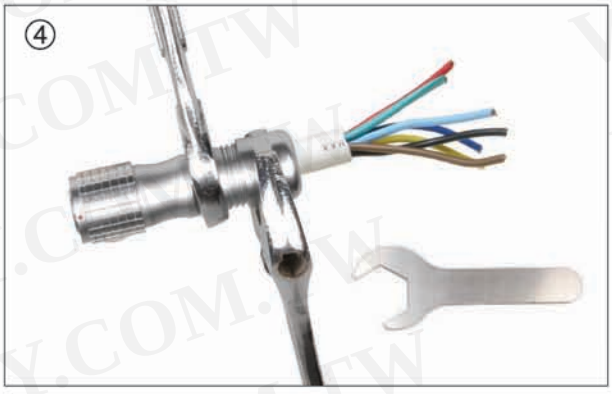
FIGURE 12 图 12

Safety Notice: This part should not be open. Please follow the instruction.











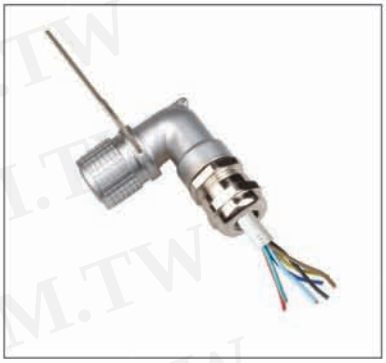
防旋转轮
Anti–roll wheel

规格：10
12
16
18



扁扳手
Flat wrench

规格：10
12
16
18





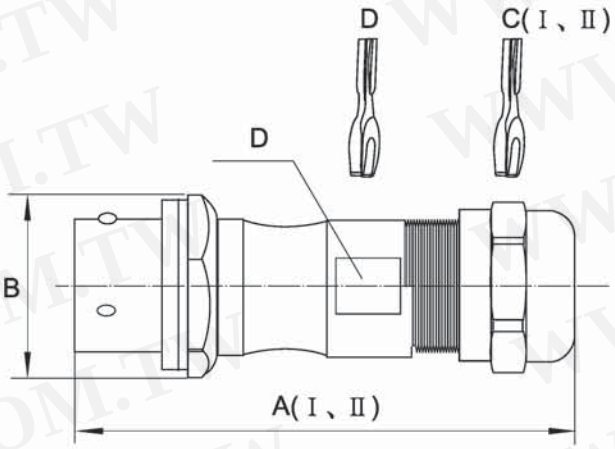


Free Receptacle
移动式插座

FIGURE 10 图 10



(a)



(b)

TABLE 10 表 10

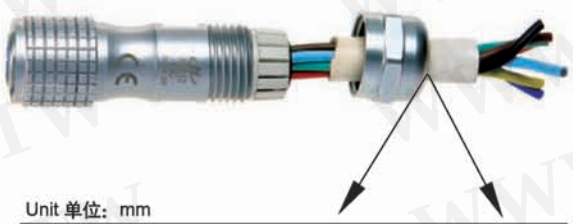
Unit 单位：mm

Series XS 型 号 XS	A Ⅰ (max)	A Ⅱ (max)	B	C Ⅰ	C Ⅱ	D
10	-	50	ϕ15	-	14	12 × 6
12	50	56	ϕ18	14	17	13 × 7
16	56	63	ϕ23	17	22	18 × 8
18	63	64	ϕ25	22	24	21 × 9

Outlet of Sealed Accessory
密封电缆外径尺寸范围

FIGURE 11 图 11

(a) C - Straight Plug C - 直形插头



Unit 单位：mm

Series XS 型 号 XS	TYPE Ⅰ Ⅰ型 Cable Diameter 电缆线直径	TYPE Ⅱ Ⅱ型 Cable Diameter 电缆线直径
10	-	ϕ3-ϕ6.5
12	ϕ3-ϕ6.5	ϕ4-ϕ8
16	ϕ4-ϕ8	ϕ7-ϕ12
18	ϕ7-ϕ12	ϕ10-ϕ14

(b) W - Angled Plug W - 弯形插头



Unit 单位：mm

Series XS 型 号 XS	Cable Diameter 电缆线直径
10	ϕ3-ϕ6.5
12	ϕ4-ϕ8
16	ϕ5-ϕ10
18	ϕ7-ϕ12

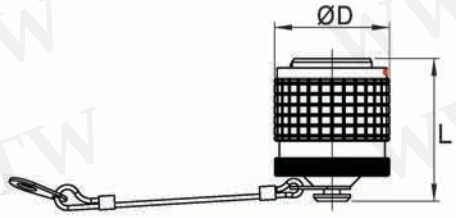
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IP67 Metal Protective Caps
IP67金属防护盖外形图

For Square Flange Receptacle
方形法兰插座防护盖

FIGURE 13 图 13





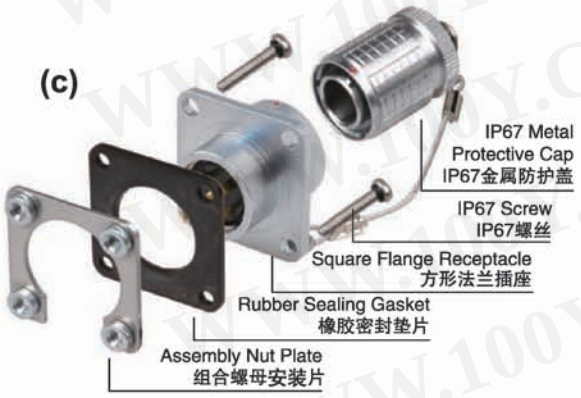


TABLE 11 表 11

Unit 单位：mm

Part Number 订购代码	D	L
XS10-FG	14	27.3
XS12-FG	17	27.3
XS16-FG	22	27.3
XS18-FG	24.5	27.3

For Circular Flange Receptacle
圆形法兰插座防护盖

FIGURE 14 图 14



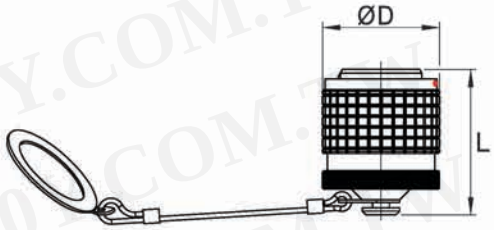




TABLE 12 表 12

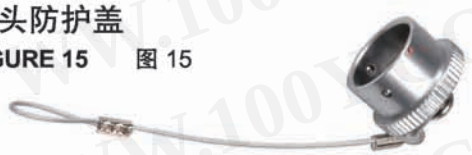
Unit 单位：mm

Part Number 订购代码	D	L
XS10-LG	14	27.3
XS12-LG	17	27.3
XS16-LG	22	27.3
XS18-LG	24.5	27.3

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

For Plug
插头防护盖

FIGURE 15 图 15





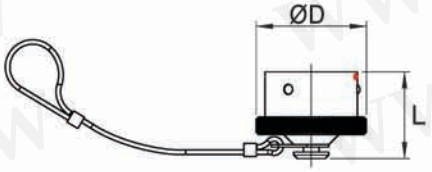


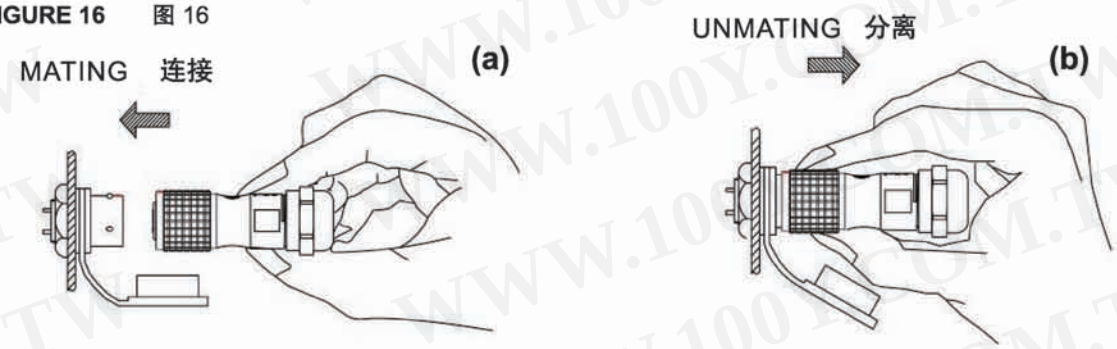
TABLE 13 表 13 Unit 单位：mm

Part Number 订购代码	D	L
XS10-CG	14	17.3
XS12-CG	17	17.3
XS16-CG	22	17.3
XS18-CG	24.5	17.3



Mating & Unmating
连接与分离示意图

FIGURE 16 图 16



MATING: Smooth part of plug is held as Figure16(a) shows. a red point "●" is set upward and pushed into receptacle as it is exactly opposite to another "●" of receptacle. Coupling is done when a cracking sound is heard. (There is a red point "●" on plug's shell and receptacle's respectively)

连　接：请按图16(a)所示手指握住插头光滑部分，“●”垂直向上，对齐插座“●”轴向往里推、听见“咔嚓”声音，表明已锁紧。（插头、插座外壳均标“●”）

UNMATING: Hold the knurled part of coupling nut of plug and pull to unmate as Figure 16(b) shows.

分　离：请按图16(b)所示手指捏住插头的滚花部分沿轴向轻轻一拉，即可分离。