- 防护等级：耦合后IP67
- 环境温度：-40℃~+85℃
- 接线方式：压接
- 线截面：0.34mm²
- 接触件材料：黄铜
- 接触件镀层：镍/金
- 绝缘体材料：PA66
- 外壳材料：TPU
- 电缆：PUR

- Protection Degree: IP67 When Mated
- Ambient Temperature: -40℃~+85℃
- Wire Terminal Style: Crimp
- Wire Gague: 0.34mm²
- Material of Contacts: Brass
- Finish of Contacts: Ni / Au
- Insulator Material: PA66
- Shell Material: TPU
- Cable: PUR

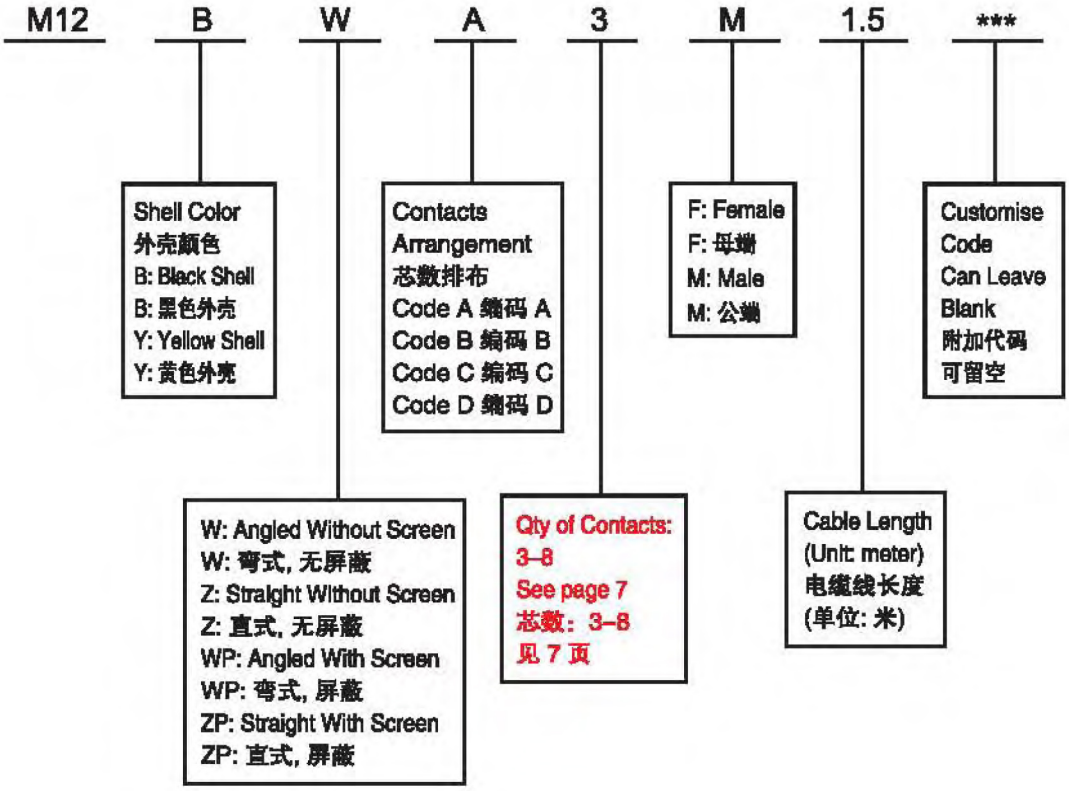
- 插座类别：① 圆形法兰、② 方形法兰
- 插座安装形式：① 前装式、② 后装式
- 连接器外形类别：① 直形、② 弯形 ③ T形、④ Y形
- 预制电缆类别：① 单端预制连接器 ② 双端预制连接器
- 电缆线基本长度,有1.5 米、3米、5米、7.5米，也可按客户要求长度预制
- 芯数排布编码：A、B、C、D

- Fix Connector Shell Types: ① Circular Flange ② Square Flange
- Fix Connector Mounting Types: ① Front Mounting ② Back Mounting
- Free Connector Shell Types: ① Straight ② Angled ③ T Adapter ④ Y Adapter
- Free Connector Molding Types: ① Single Connector ② Double Connectors
- Cable Length: 1.5m, 3m, 5m, 7.5m, and customized length
- Contacts Arrangement Code: A、B、C、D

Electrical Data
电性能表

Qty of Contacts 规格	Rated Current 额定电流	Rated Voltage 额定电压	Withstand Voltage 耐压	Pollution Degree 污染等级	Contact Resistance 接触电阻	Insulation Resistance 绝缘电阻
M12 -3 芯	4A	250V	1400V	3[b]	< 10mΩ	>10^{10}Ω
M12 -4 芯	4A	250V	1400V	3[b]	< 10mΩ	>10^{10}Ω
M12 -5 芯	4A	60V	1000V	3[b]	< 10mΩ	>10^{10}Ω
M12 -6 芯	2A	30V	650V	3[b]	< 10mΩ	>10^{10}Ω
M12 -8 芯	2A	30V	650V	3[b]	< 10mΩ	>10^{10}Ω

Single Free Connector Part Number
单端预制订货代码



Examples 例示:

M12BWA5M1.5 M12 connectors, black, angled Without Screen, A type, 5 contacts, male, cable length 1.5m, See picture below:

M12BWA5M1.5 M12连接器/黑色/弯式无屏蔽/A型/5芯/公端/电缆长度1.5米, 如下图:



M12YZPA3F7.5 M12 connectors, yellow, straight With Screen, A type, 3 contacts, female, cable length 7.5m, See picture below:

M12YZPA3F7.5 M12连接器/黄色/直式屏蔽/A型/3芯/母端/电缆长度7.5米, 如下图:



Double Free Connectors Part Number
双端预制订货代码

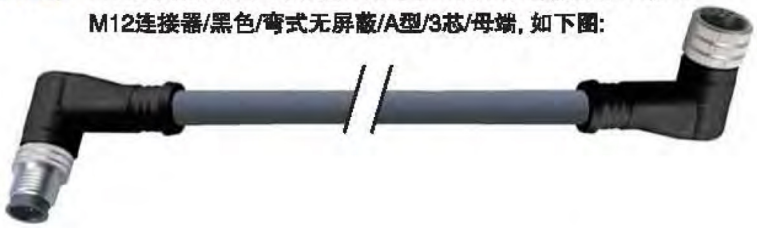
M12 B W A 3 M 1.5 // M12 B W A 3 F ***

- **B** — Shell Color 外壳颜色: B: Black Shell B: 黑色外壳; Y: Yellow Shell Y: 黄色外壳
- **W** — W: Angled Without Screen W: 弯式, 无屏蔽; Z: Straight Without Screen Z: 直式, 无屏蔽; WP: Angled With Screen WP: 弯式, 屏蔽; ZP: Straight With Screen ZP: 直式, 屏蔽
- **A** — Contacts Arrangement 芯数排布: Code A 编码 A; Code B 编码 B; Code C 编码 C; Code D 编码 D
- **3** — Qty of Contacts: 3–8 See page 7 芯数：3–8 见 7 页
- **M** — F: Female F: 母端; M: Male M: 公端
- **1.5** — Cable Length (Unit: meter) 电缆线长度 (单位: 米)
- **M12 B W A 3 F ***** — 同上; ***: Customise Code Can Leave Blank 附加代码可留空

Examples 例示:

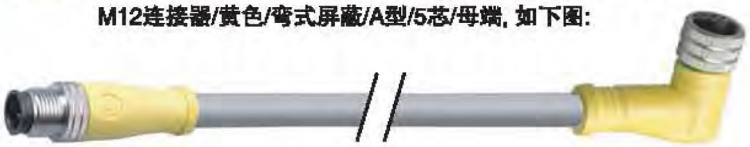
M12BWA3M1.5//M12BWA3F M12 connector, black, angled Without Screen, A type, 3 contacts, male, cable length 1.5m // M12 connector, black, angled Without Screen, A type, 3 contacts, female, See picture below:

M12BWA3M1.5//M12BWA3F M12连接器/黑色/弯式无屏蔽/A型/3芯/公端/电缆长度1.5米 // M12连接器/黑色/弯式无屏蔽/A型/3芯/母端, 如下图:



M12YZPA5M3.5//M12YWPA5F M12 connector, yellow, straight With Screen, A type, 5 contacts, male,cable length 3.5m // M12 connector, yellow, straight With Screen, A type, 5 contacts, female, See picture below:

M12YZPA5M3.5//M12YWPA5F M12连接器/黄色/直式屏蔽/A型/5芯/公端/电缆长度3.5米 // M12连接器/黄色/弯式屏蔽/A型/5芯/母端, 如下图:



Circular Fixed Connectors Part Number
圆形法兰插座订货代码

M12 HY A 3 F M16 1.5

- M12 HY: QY: Front Panel Mounting / QY: 圆形法兰前装式插座; HY: Back Panel Mounting / HY: 圆形法兰后装式插座
- A: Contacts Arrangement 芯数排布 — Code A 编码 A; Code B 编码 B; Code C 编码 C; Code D 编码 D
- 3: Qty of Contacts: 3–8 See page 7 芯数：3–8 见 7 页
- F: F: Female F: 母端; M: Male M: 公端
- M16: 紧固螺纹制式; M: Metric; Blank for M; M：公制螺纹; M制可不注; PG: PG 9; PG must be marked; PG：PG螺纹 9; PG制必须注写
- 1.5: Cable Length (Unit: meter) 电缆线长度 (单位: 米)

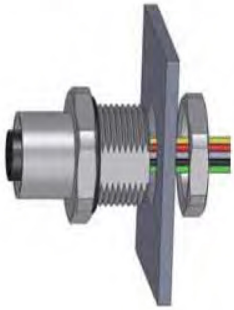

M12QY–M


M12QY–F


M12HY–M


M12HY–F



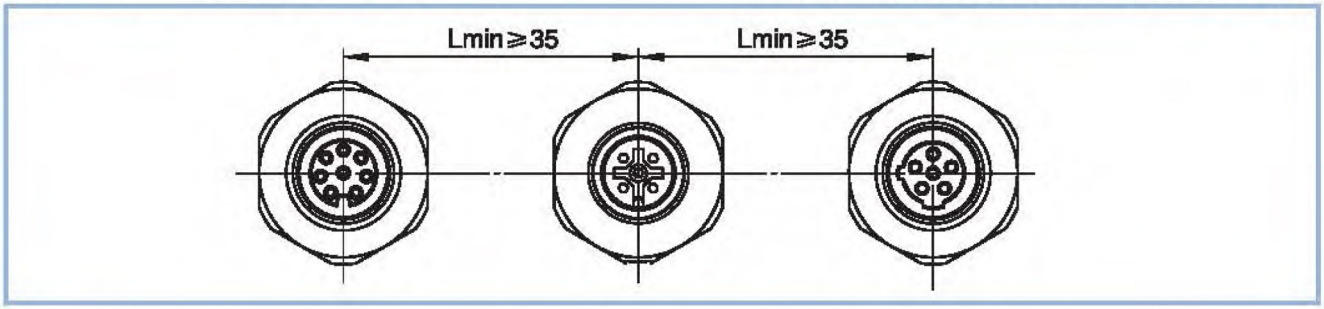






Circular Fixed Connectors Mounting Space Figure
圆形固定式安装间距图示

Mounting Hole See P13 安装开孔尺寸见第13页



Square Flange Fixed Connectors Part Number
方形法兰插座订货代码

M12 HF A 3 F S 1.5

- HF: QF: Front Panel Mounting / QF: 方形法兰前装式插座; HF: Back Panel Mounting / HF: 方形法兰后装式插座
- A: Contacts Arrangement 芯数排布 — Code A 编码 A, Code B 编码 B, Code C 编码 C, Code D 编码 D
- 3: Qty of Contacts: 3–8 See page 7 芯数：3–8 见 7 页
- F: Female / F: 母端; M: Male / M: 公端
- S: P: Copper Shell / P: 铜质外壳; S: Stainless Steel Shell / S: 不锈钢外壳
- 1.5: Cable Length (Unit: meter) 电缆线长度 (单位: 米)


M12QF–M


M12QF–F


M12HF–M


M12HF–F



前装 Front

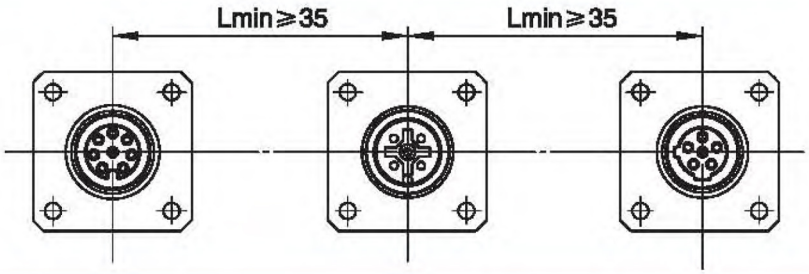




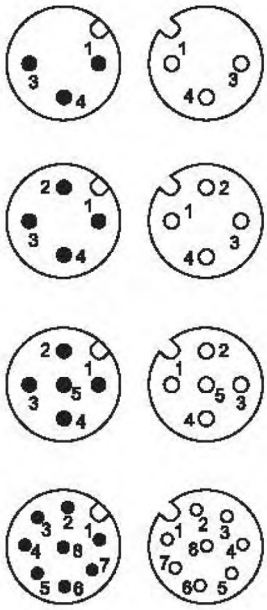
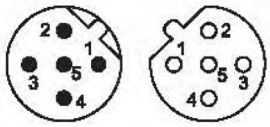
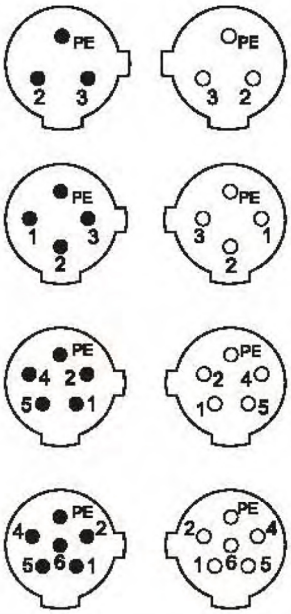
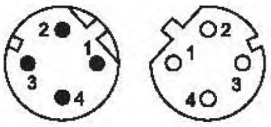
后装 Rear

Square Flange Fixed Connectors Mounting Space Figure
方形法兰固定式安装间距图示

Mounting Hole See P14 安装开孔尺寸见第14页



芯数排布图——绝缘体端面
Contacts Arrangement

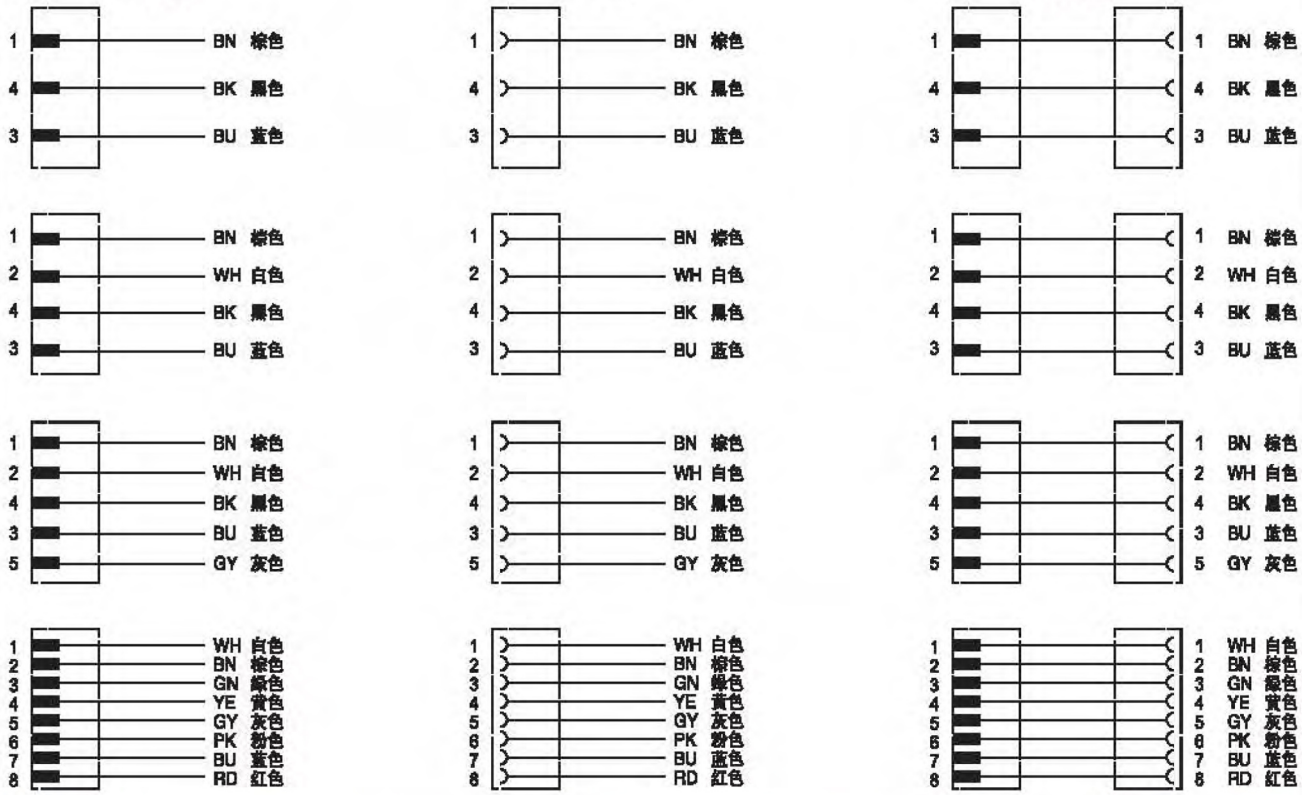
A A Code A编码	B B Code B编码	C C Code C编码	D D Code D编码
M 针式 / F 孔式	M 针式 / F 孔式	M 针式 / F 孔式	M 针式 / F 孔式
			

表——电线长度规格 Table 1 Cable Length

Cable Length 电线长度	1.5m	3m	5m	7.5m	Choose Cable 客户要求长度

表二–接线图表 Table 2

公端 母端 双端



Contacts 芯数 / Contact No. 芯线序号	3 Contacts 3芯	4 Contacts 4芯	5 Contacts 5芯	6 Contacts 6芯	7 Contacts 7芯	8 Contacts 8芯
1	BN (棕色)	BN (棕色)	BN (棕色)	WH (白色)	WH (白色)	WH (白色)
2	–	WH (白色)	WH (白色)	BN (棕色)	BN (棕色)	BN (棕色)
3	BU (蓝色)	BU (蓝色)	BU (蓝色)	GN (绿色)	GN (绿色)	GN (绿色)
4	BK (黑色)	BK (黑色)	BK (黑色)	YE (黄色)	YE (黄色)	YE (黄色)
5	–	–	GY (灰色)	GY (灰色)	GY (灰色)	GY (灰色)
6	–	–	–	PK (粉色)	PK (粉色)	PK (粉色)
7	–	–	–	–	BU (蓝色)	BU (蓝色)
8	–	–	–	–	–	RD (红色)

WH: Withe; BN: Brown; GN: Green; YE: Yellow; GY: Gray; PK: Pink

预制插头类别——单端 Single Free Connector

M–(公)直形连接器 Male Straight Connector



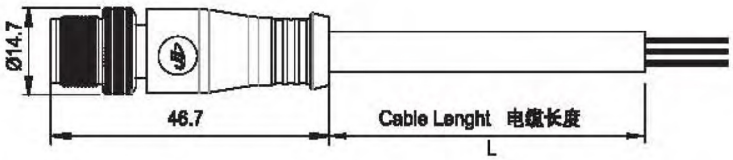
B=黑色



Y=黄色

规格:
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图



F–(母)直形连接器 Female Straight Connector



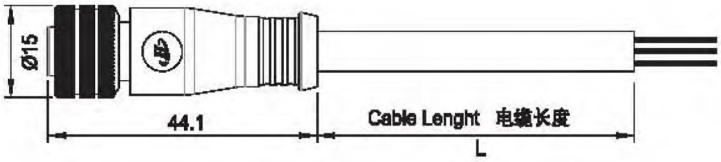
B=黑色



Y=黄色

规格:
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图



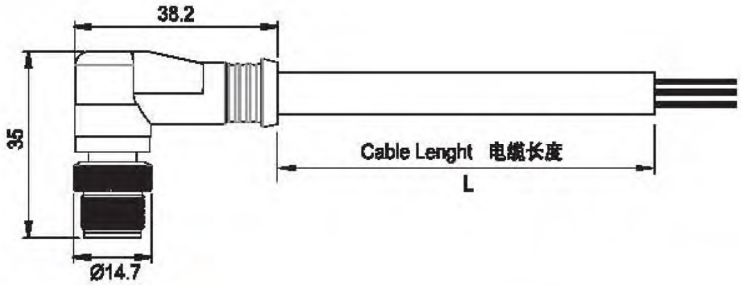
预制插头类别——单端 Single Free Connector

M–(公)弯形连接器 Male Angled Connector



规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图

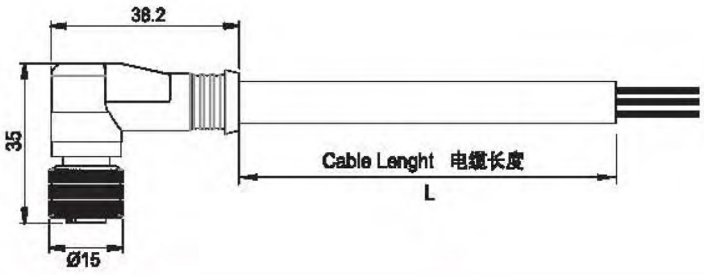


F–(母)弯形连接器 Female Angled Connector



规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图



预制插头类别——双端 Double Free Connector

M/F–(公)直形连接器//(母)直形连接器 Male Straight//Female Straight



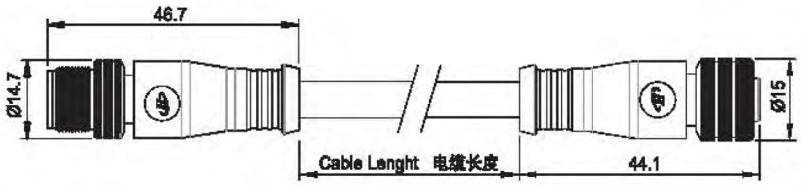
B=黑色



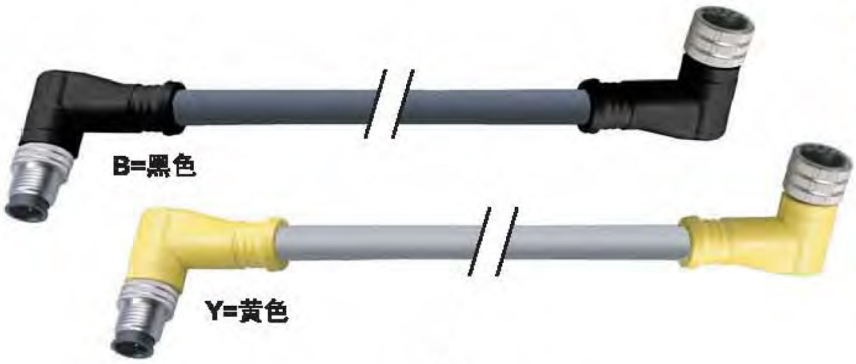
Y=黄色

规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图



M/F–(公)弯形连接器//(母)弯形连接器 Male Angled//Female Angled

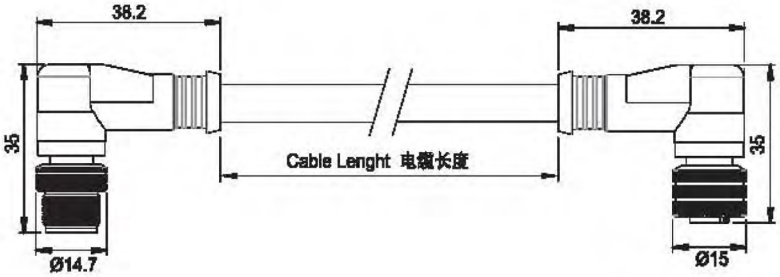


B=黑色

Y=黄色

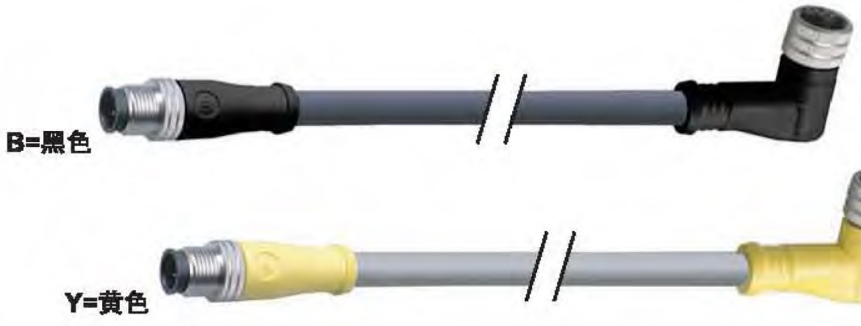
规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图



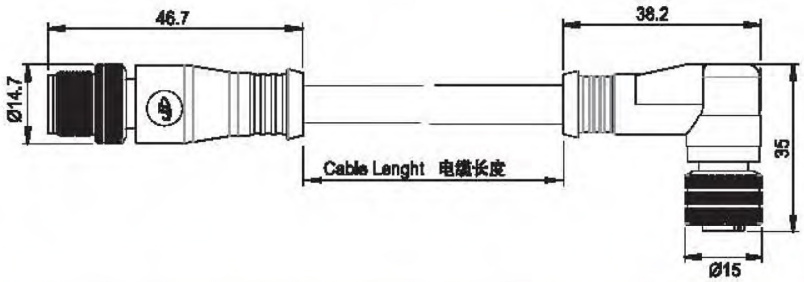
预制插头类别——双端 Double Free Connector

M//F–(公)直形连接器//(母)弯形连接器 Male Straight//Female Angled

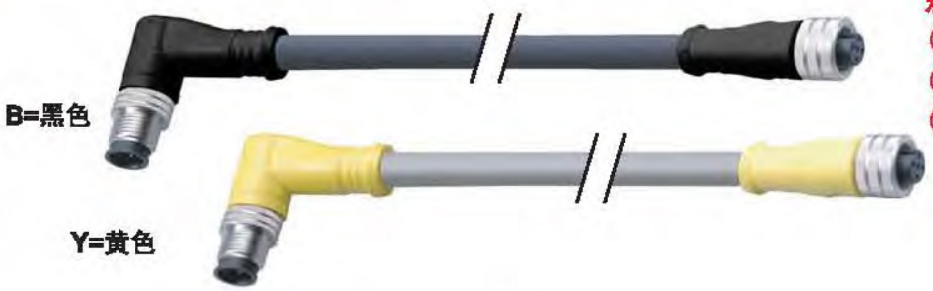


规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图

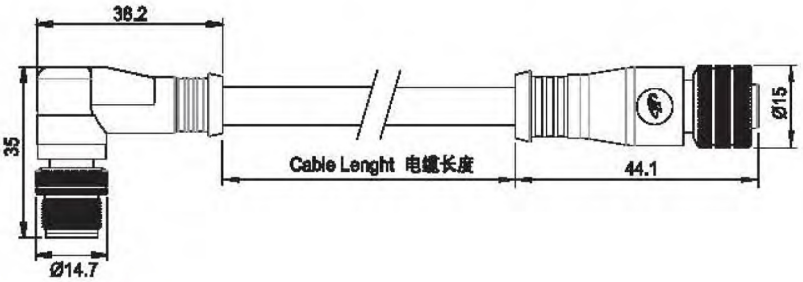


M//F–(公)弯形连接器//(母)直形连接器 Male Angled//Female Straight

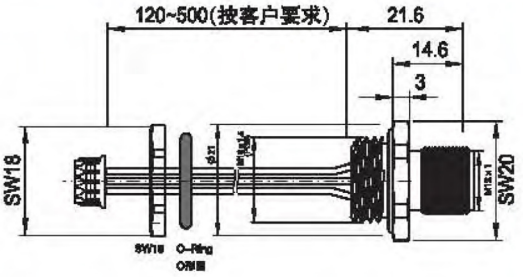
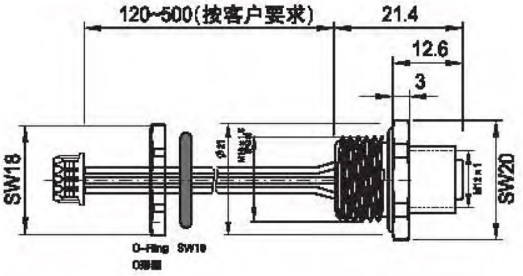
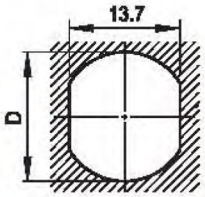
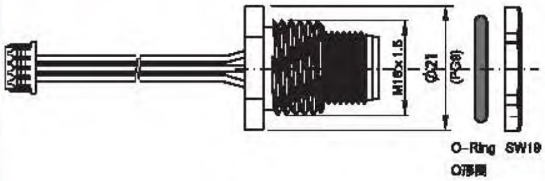
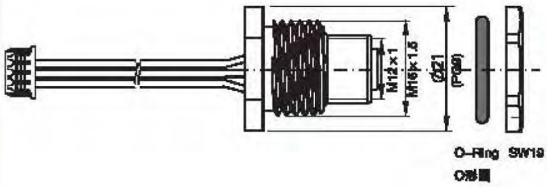


规格：
① 芯数、编码见P7页
② 电线长度规格参见P7表一
③ 接线图表参见P8表二

Drawing
尺寸图

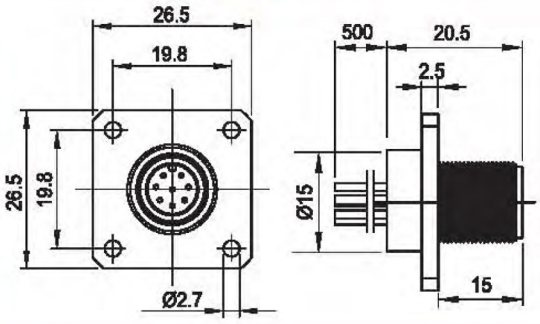
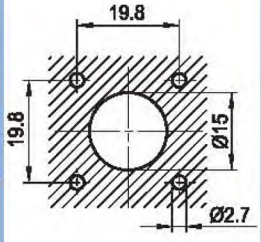
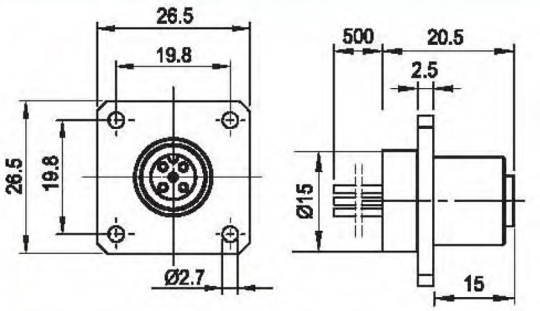
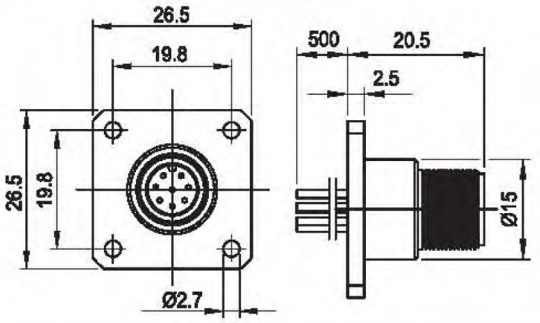
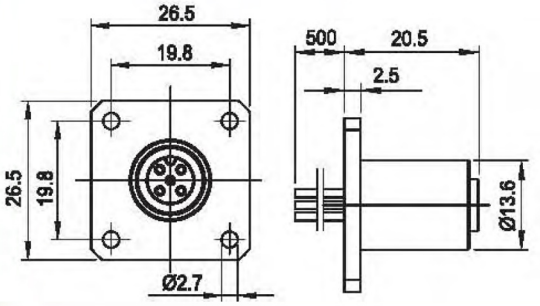


Circular Fixed Connectors(See Page 7)
插座——圆形法兰(芯数排布见 7 页)

Front Panel Mounting 前装式(QY)	Identification 外形	Drawing 尺寸图	Mounting Hole Dimention 开孔尺寸
▶ M: 公端 M12QY Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
▶ F: 母端 M12QY Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
Back Panel Mounting 后装式(HY)	**Identification 外形**	**Drawing 尺寸图**	
▶ M: 公端 M12HY Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
▶ F: 母端 M12HY Contacts Arrangement See Page 7 芯数排布、编码见 7 页			

Diameter 直径	D
公制	Ø16.1
PG9	15.2

Square Flange Fixed Connectors(See Page 7)
插座——方形法兰(芯数排布见 7 页)

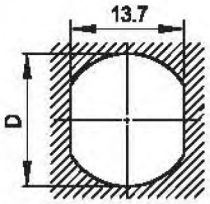
Front Panel Mounting 前装式(QF)	Identification 外形	Drawing 尺寸图	Mounting Hole Dimention 开孔尺寸
▶ M: 公端 M12QF Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
▶ F: 母端 M12QF Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
Back Panel Mounting 后装式(HF)	**Identification 外形**	**Drawing 尺寸图**	
▶ M: 公端 M12HF Contacts Arrangement See Page 7 芯数排布、编码见 7 页			
▶ F: 母端 M12HF Contacts Arrangement See Page 7 芯数排布、编码见 7 页			

公、母转换引线插座 Male & Female Adapter

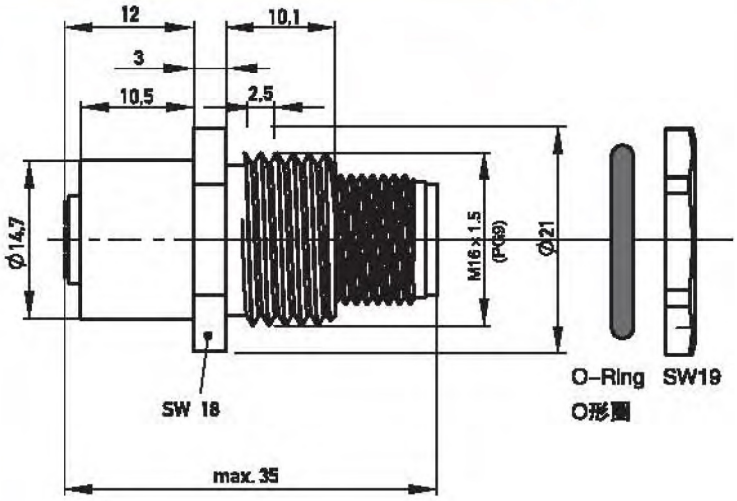


订货代码 M12SYA（芯数自选）
Part Number M12SYA

面板开孔尺寸图

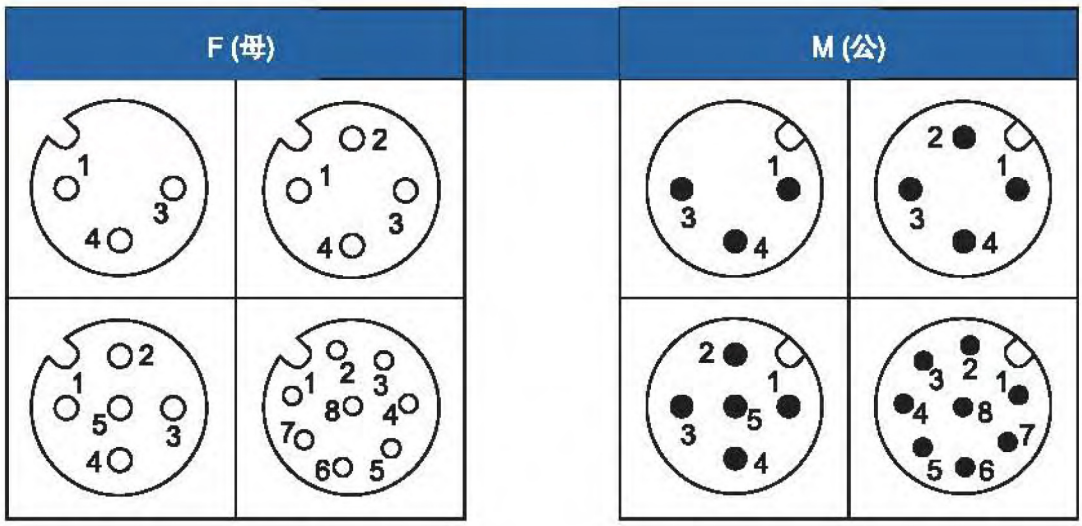


制式	Diameter 直径	D
公制	M16×1.5	Ø16.1
PG制	PG9	15.2



Unit in mm.
所有的尺寸单位皆为毫米。

A Contact Arragement 芯数自选表

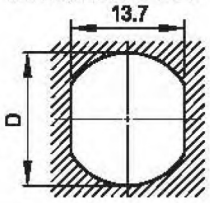


公、母转换引线插座 Male & Female Adapter

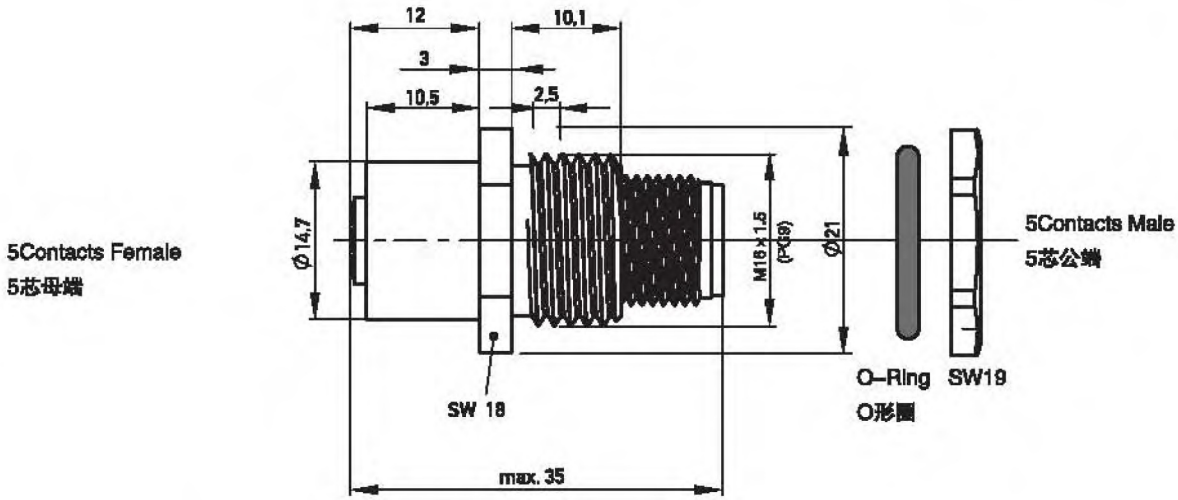


订货代码 M12SYB5
Part Number M12SYB5

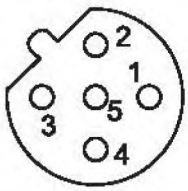
面板开孔尺寸图



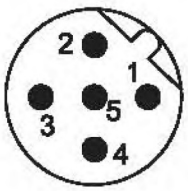
制式	Diameter 直径	D
公制	M16×1.5	Ø16.1
PG制	PG9	15.2



F Female
F母端



M Male
M公端

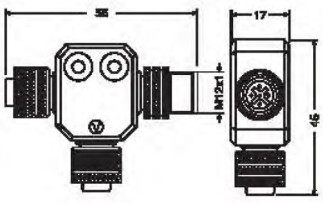
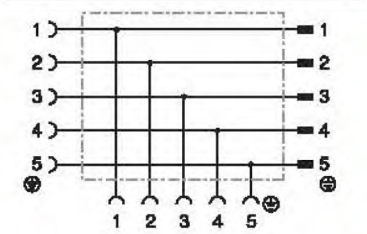


Unit in mm.
所有的尺寸单位皆为毫米。

M12 T Adapter
M12 T连接器

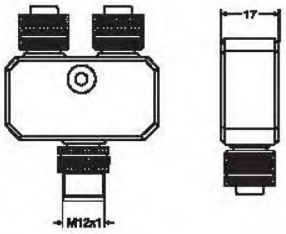
Technical Characteristics
技术特性

Rated Current: 4A	额定电流I_N：4A
Rated Voltage: 60V	额定电压U_N：60V
Qty of Contacts: 5	芯数：5
Contact Resistance: ≤5mΩ	接触电阻：≤5mΩ
Insulation Resistance: ≥1GΩ	绝缘电阻：≥1GΩ
Ambient Temperature: -25℃~+85℃	环境温度 (运行)：-25℃~+85℃
Contacts Arrangement Code: A	芯数排布编码：A
Retardant: UL94–V0	阻燃等级, 符合UL 94–V0

Identification 外 形	Part No. 代 码	Drawing 外形图
Female A Code 50cm Wire, 0.5mm² 母端 A型 50cm导线，0.5mm²  Female A Code 50cm Wire, 0.5mm² 母端 A型 50cm导线，0.5mm² Male A Code 50cm Wire, 0.5mm² 公端 A型 50cm导线， 0.5mm²	M12T	 Circuit Diagram 电路图 

M12 Y Adapter
M12 Y连接器

Technical Characteristics 技术特性	
Rated Current: 4A	额定电流IN：4A
Rated Voltage: 60V	额定电压UN：60V
Qty of Contacts: 5	芯数：5
Contact Resistance: ≤5mΩ	接触电阻：≤5mΩ
Insulation Resistance: ≥1GΩ	绝缘电阻：≥1GΩ
Ambient Temperature: -25℃~+85℃	环境温度 (运行)：-25℃~+85℃
Contacts Arrangement Code: A	芯数排布编码：A
Retardant: UL94-V0	阻燃等级, 符合UL 94-V0

Identification 外 形	Part No. 代 码	Drawing 外形图
 Male A Code 50cm Wire, 0.5mm² 5 Contacts 公端 A型 50cm导线，0.5mm² 5芯 Female A Code 50cm Wire, 0.5mm² 5 Contacts 母端 A型 50cm导线，0.5mm² 5芯 Female A Code 50cm Wire, 0.5mm² 5 Contacts 母端 A型 50cm导线，0.5mm² 5芯	M12Y	 Circuit Diagram 电路图 