VCOHU 沃虎
选沃虎 · 真靠谱

各类 M5、M8、M9、M12、M16、M17、M22、M23 等螺纹连接器

圆形连接器选型手册

M系列连接器产品

Circular Connectors Selection Guide
M Series Connector Products



沃虎电子创立于2018年，是全球领先的通信电子元器件供应商

总部位于苏州吴江
磁性元器件生产基地-四川绵阳，连接器生产基地-广东东莞

采用互联网模式为用户提供产品和方案的数字化选型设计定制

过程节约　数据集中　服务集成　反馈高效



互联网模式-自主互联网平台

坚持为客户创造价值

通过自主互联网平台提升效率,分析客户痛点，基于客户角度考虑问题，能够快速响应市场变化及时推出新功能和改进，以满足客户的需求。

VOOHU前景

产品广泛应用于:数据通讯、工业控制、光伏储能、消费电子、安防监控和视频控制等领域,目前合作客户1000多家(含上市公司100家

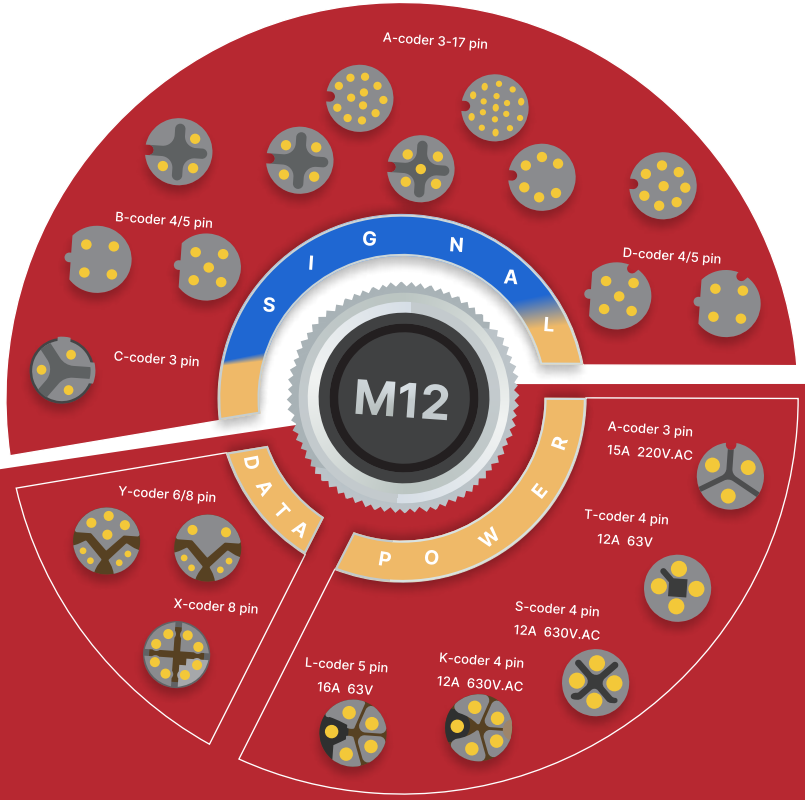
互联网模式-自主互联网平台

完善的通讯电子元器件产品矩阵

包括但不限于主动器件、被动器件、I/O连接器及PHY芯片,可以高效为客户提供极具性价比的全套解决方案。

RJ45系列　SFP系列　圆形连接器系列　其他I/O连接器系列

网络变压器系列　音频变压器系列　POE电源变压器系列　其他磁性元器件系列


A-coder 3-17 pin
B-coder 4/5 pin
C-coder 3 pin
D-coder 4/5 pin
SIGNAL
M12
DATA
Y-coder 6/8 pin
X-coder 8 pin
POWER
A-coder 3 pin
15A 220V.AC
T-coder 4 pin
12A 63V
S-coder 4 pin
12A 630V.AC
K-coder 4 pin
12A 630V.AC
L-coder 5 pin
16A 63V

M系列螺纹连接器 M series threaded connector 05

M系列螺纹连接器编码原则/Coding principles for M series threaded connectors 05-06

M系列螺纹连接器产品简介/M Series Threaded Connector Product Introduction 07-09

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M9螺纹连接器/M9 threaded connector 26-31

M12螺纹连接器/M12 threaded connector 32-54

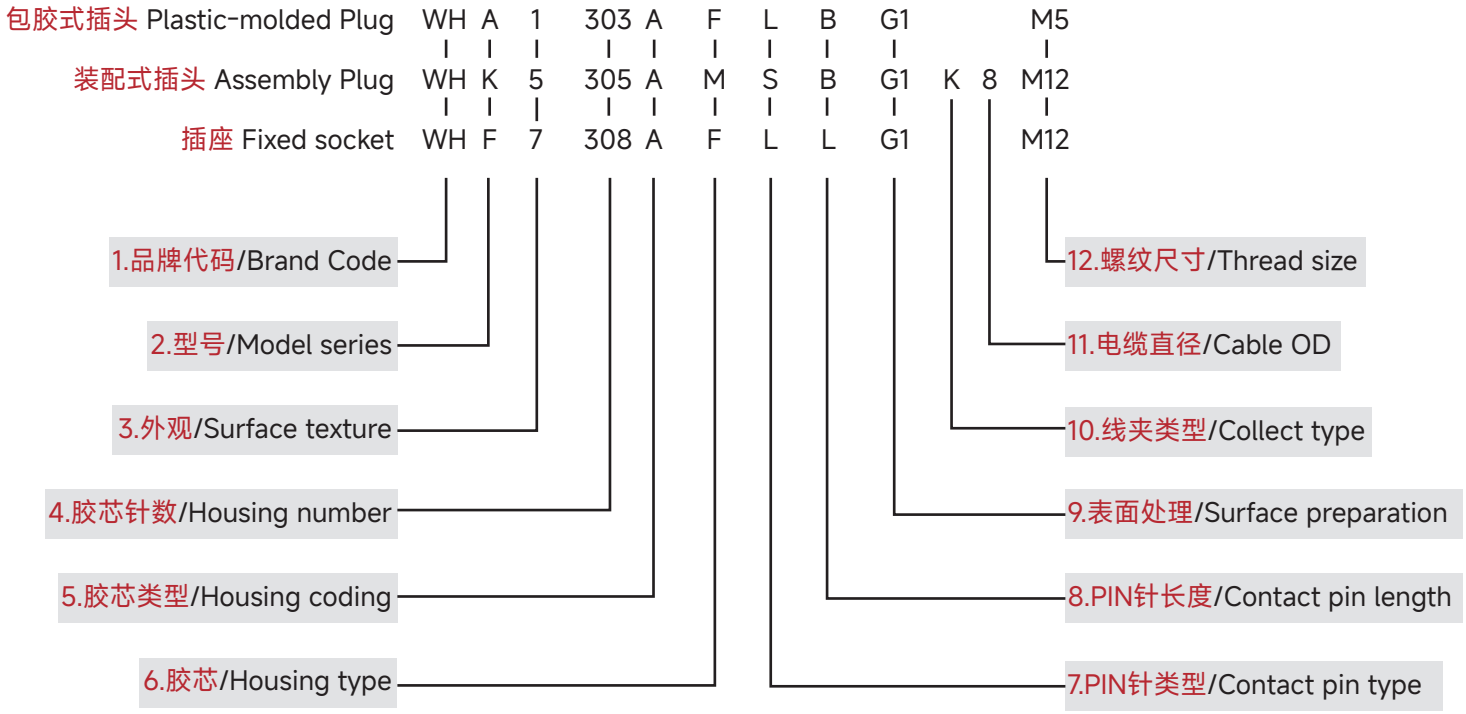
M16螺纹连接器/M16 threaded connector 55-60

M22螺纹连接器/M22 threaded connector 61

M17/23伺服电机连接器/M17/23 servo motor connector 62

M17/23伺服电机连接器/M17/23 servo motor connector 63-64

M系列螺纹连接器编码原则 Coding principles for M series threaded connectors



M系列螺纹连接器编码原则详细注解

Detailed notes on coding principles for M series threaded connectors

1.品牌代码/Brand Code:

WH-沃虎电子科技有限公司

2.Model series/型号:

A-Plastic-molded/普通包胶式，
B-Plastic-molded with shielded shell/全屏蔽壳包胶式，
I-Plastic-molded with short shielded shell/半屏蔽壳包胶式，
S-Plastic-molded with short shielded shell and spring/带弹簧半屏蔽壳包胶式，
C-Plastic-molded Anti-vibration/防振动包胶式，
K-Assembly shielded/装配式带屏蔽，
E-Rear panel mounting socket/内锁插座(板后安装)，
F-Front panel mounting socket/外锁插座(板前安装)，
D-Square flange socket/方型法兰盘，
H-PCB(DIP)socket/插板式插座

3.Surface texture/外观:

- plug 插头：
  1-Mesh structure metal /金属网纹
  2-Straight knurling/直纹
  3-Pineapple texure/菠萝纹
  5/B-Hexagon/六角 5/B-Knurling and hexagon/直纹+六边形
  A-Mesh structure Plastic/塑胶网纹
- socket 插座：
  6-Short shell/短款--M8
  7-Panel thread/面板螺纹 PG9--M12
  8-Panel thread/面板螺纹 M16x1.5--M12
  9-Panelthreal/面板螺纹 M12x1.0--M12 / M12x0.5--M9
  0-Standard 标准

4.Housing number/胶芯针数:

A coding：303、304、305、306、308、312、317，
B coding：304、305，
C coding：303，
D coding：304、305，
X coding：308，
Y coding：308，
S coding：304，
T coding：304，
K coding：305，
L coding：305

5.Housing coding/胶芯类型

(Prevent mistaken insertion/防误插)A、B、C、D、X、K、L、S、T、Y coding

6.Housing type/胶芯:

M-male/公胶芯(装配公针)， F-famale/母胶芯(装配母针)

7.Contact pin type/针类型:

A-turning male pin solder/车制焊线式公针
L-turning female pin solder/车制焊线式母针，
Z-stamping male pin solder/冲压焊线式公针，
Y-stamping female pin solder/冲压焊线式母针，
D-male pin for PCB(DIP)/插板式公针，
N-female pin for PCB(DIP)/插板式母针，
W-male pin right angle/弯角公针，
V-female pin right angle/弯角母针，
C-Crimp/压接针

8.Contact pin length/针长度:

L-Pin higher than shell end face/长针，
S-Pin lower than shell end face/短针，
B-standard/标准长度

9.Surface preparation/表面处理 (C5 is shielding type/C5为屏蔽类型):

Gl-gold flash/漂金， G3-gold plating 3U"/镀金 3U"
屏蔽/Shield:
U=Unshielded/非屏蔽
S=Short Shield/短屏蔽
L=Long Shield/长屏蔽

10.Collet type/线夹类型

K-Collet/线夹

11.Cable OD/电缆直径:

Cable OD max./电线最大外径（参考规格书）

12.Thread size/螺纹尺寸:

M5/M8/M9/M12/M16/M17/M22/M23

本编码原则适用M5-M16系列产品

M系列螺纹连接器简介（Introduction to M series threaded connectors)

1.螺帽种类（Nut type）



网纹
Mesh structure metal



直纹
Straight knurling

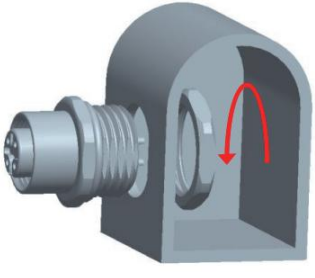


菠萝纹
Pineapple texure

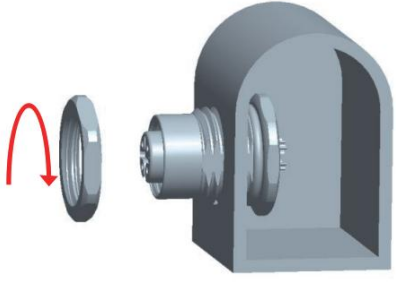


六角直纹
knurling and hexagon

2.装配方式（Assembly method）



内锁
front/screw mounting with thread



外锁
rear/screw mounting with threa

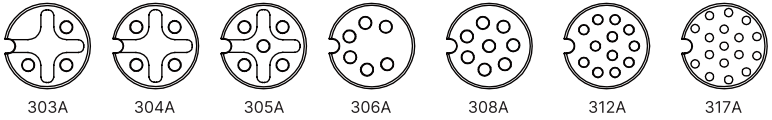
3.胶芯类型及芯数（Insulator type)

M-公胶芯

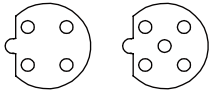




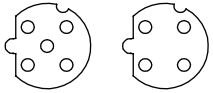
F-母胶芯



A coding



B coding



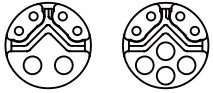
D coding



C coding



X coding



Y coding



K coding　L coding　S coding　T coding　A coding

5.针类型（Pin type)



90°PCB（插板式）
90°Printed Circuit Board Conjugates



PCB（插板式）
Printed Circuit Board Conjugates



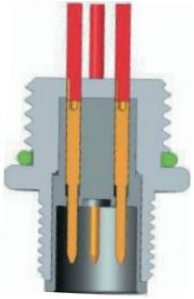
焊线式
bond wire type



铆压式
riveting type

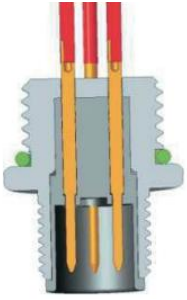
5.针长度（Pin length)

短针：针低于胶面和外壳
Short pin：The pin is below the glue surface and the housing





长针：针高于胶面和外壳
Long pin：The pin is higher than the glue surface and the Shell

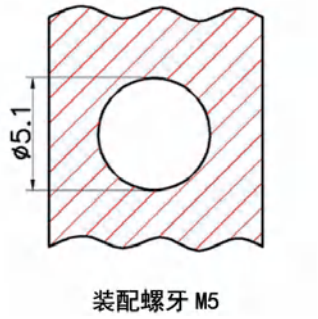


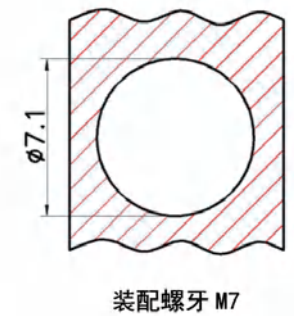



M5
CONNECTOR
信号 数据

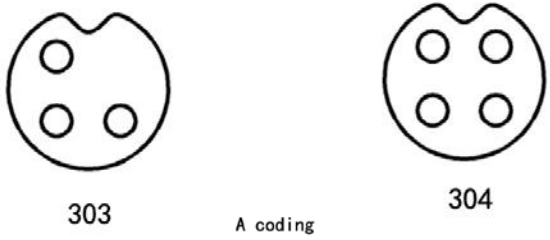
M5 简介（M5 Introduction)

1.装配螺牙和安装孔关系(Assembly thread type)



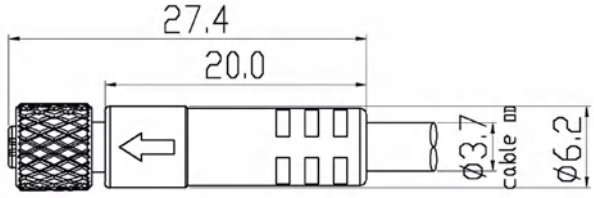


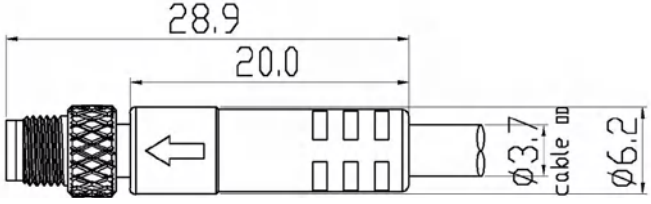
2.胶芯类型及芯数-M5(Insulator type-M5)



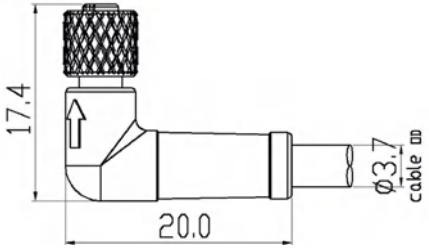
3.M5 线束/M5

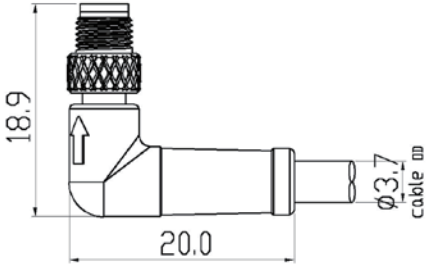
3.1.直头小模(电线 OD 不超过 3.7mm)



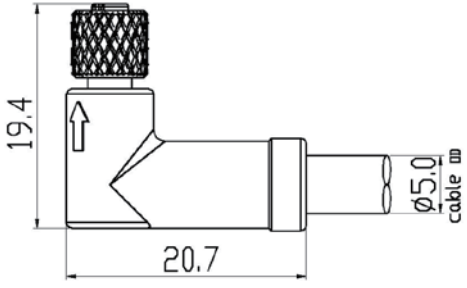


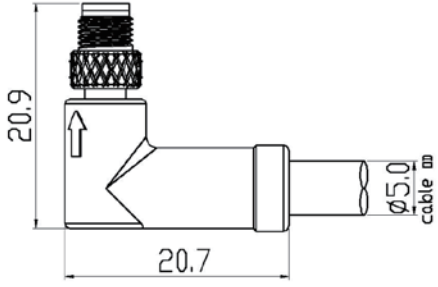
3.2.弯头小模(电线 OD 不超过 3.7mm)





3.3.弯头大模(电线 OD 不超过 5.0mm)





4.常用电线 控制线(无屏蔽)

CT-P/N	规格	外皮材质	外皮颜色	特性
CB0013	26AWG*4C 0D3.8	PVC	黑色	无屏蔽

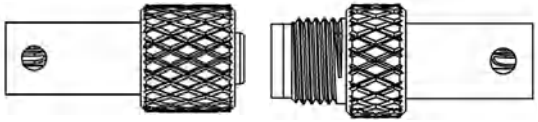
M5 常规插头系列 M5 plug serie

M5A1



M5A1

M5I1



M5I1

M5G1



M5G1

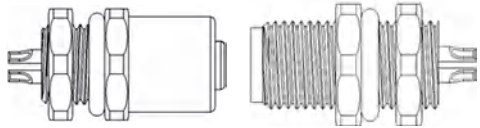
CT-1369



CT-1370

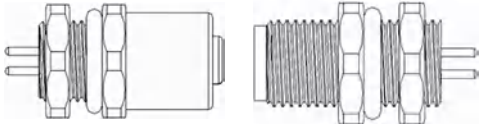
M5 常规插座系列 M5 Socket series

M5E0



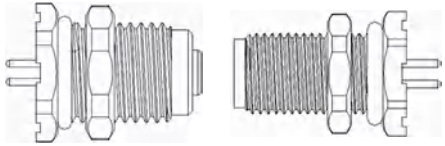
M5E0

M5E0



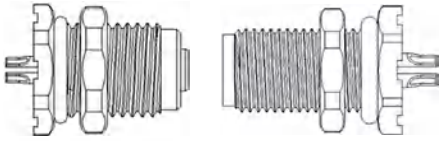
M5E0

M5F0



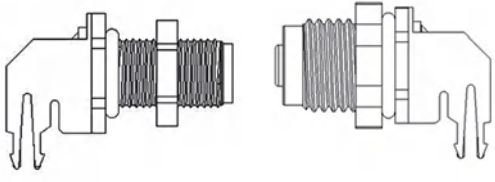
M5F0

M5F0



M5F0

M5H4

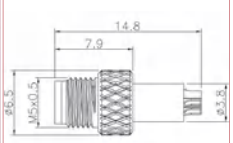


M5H4

M5A1 Male 普通网纹包胶式公头
Ordinary textured rubber-coated male plug



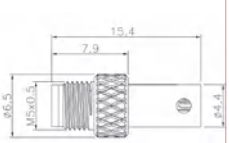
料号:WHA13**AMABG1M5



M5I1 Male 短款屏蔽壳网纹公头
Short shielded shell mesh male plug



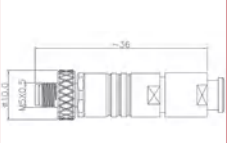
料号:WHI13**AMABG1M5



M5G1 Male 金属装配焊线式网纹公头
Metal assembly welding wire mesh male plug



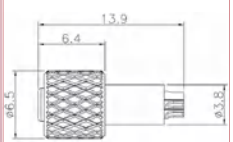
料号:WHG13**AMABG1D42ZM5



M5A1 Female 普通网纹包胶式母头
Ordinary mesh rubber-coated female plug



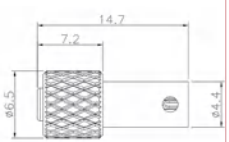
料号:WHA13**AFLBG1M5



M5I1 Female 短款屏蔽壳网纹母头
Short shielded shell mesh female plug



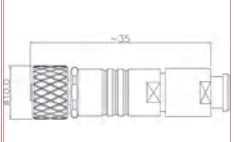
料号:WHI13**AFLBG1M5



M5G1 Female 金属装配焊线式网纹母头
Metal assembly welding wire mesh female plug



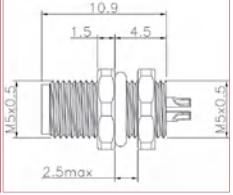
料号:WHG13**AFLBG1D42ZM5



M5E0 Male 后锁插座公头（焊接）
Rear lock socket male（soldered)



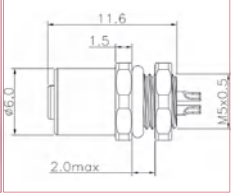
料号:WHE03**AMALBG1M5



M5E0 Famale 后锁插座母头（焊接）
Rear Lock Socket Female（Soldered)



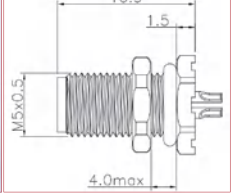
料号:WHE03**AFLLG1M5



M5F0 Male 前锁插座公头（焊接）
Front lock socket male (soldered)



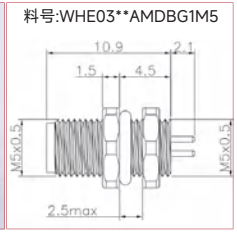
料号:WHF03**AMALG1M5



M5E0 Male 后锁插座公头（PCB）
Rear lock socket male (PCB)



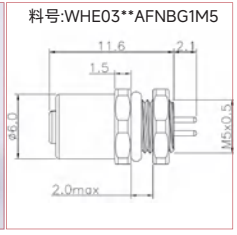
料号:WHE03**AMDBG1M5



M5E0 Famale 后锁插座母头（PCB）
Rear lock socket female (PCB)



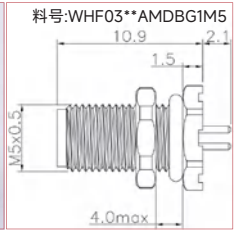
料号:WHE03**AFNBG1M5



M5F0 Male 前锁插座公头（PCB）
Front lock socket male (PCB)



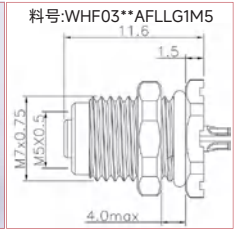
料号:WHF03**AMDBG1M5



M5F0 Female 前锁插座母头（焊接）
Front lock socket female (soldered)



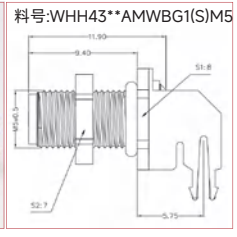
料号:WHF03**AFLLG1M5



M5H4 Male 插板式插座弯角公头
Plug-in board socket angled male



料号:WHH43**AMWBG1(S)M5



防尘盖 Male 公头
Dust cover



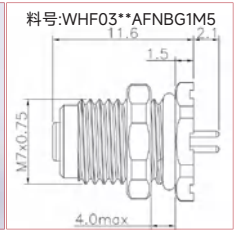
料号:WHCT-1369



M5F0 Female 前锁插座母头（PCB）
Front lock socket female (PCB)



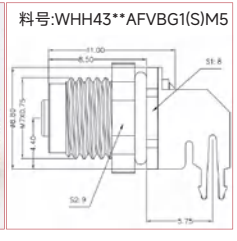
料号:WHF03**AFNBG1M5



M5H4 Female 插板式插座弯角母头
Plug-in board socket angled female



料号:WHH43**AFVBG1(S)M5



防尘盖 Female 母头
Dust cover



料号:WHCT-1370



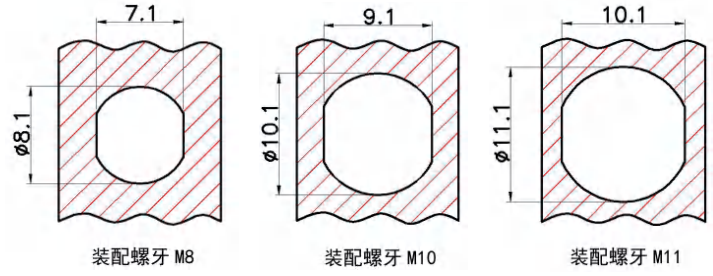
标准产品基础参数表 (注：此表为产品常规性能技术参数表，非常规产品支持定制)

303	304	芯数/Number of cores
0.5mm		导体直径/Conductor diameter
26AWG		适配线缆/Adaptable cable
1A		额定电流/Rated current
60V		额定电压/Rated voltage
≤10mΩ		接触电阻/contact resistance
≥100MΩ		绝缘电阻/Insulation resistance
＞500 mate/unmate cycles		寿命/Durability
-20° C，＋80°C		温度等级/Temperature grade
IP67		防水等级/Waterproof
＞48h		盐雾/ Salt spray test

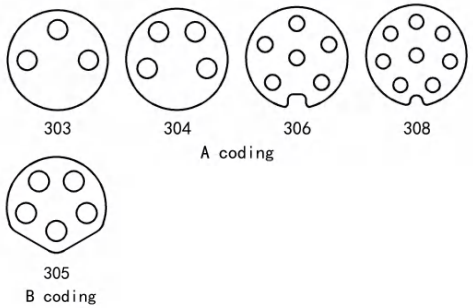

M8
CONNECTOR
信号+数据

M8 简介（M8 Introduction)

1.装配螺牙和安装孔关系（Assembly thread type）

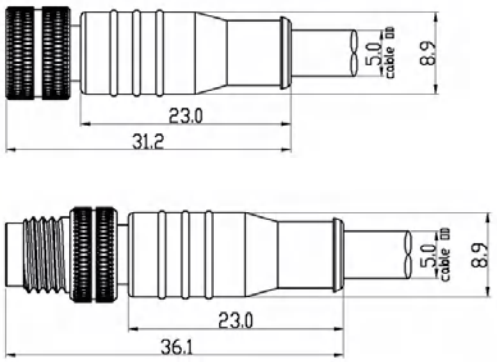


2.胶芯类型及芯数-M8（Insulator type-M8）

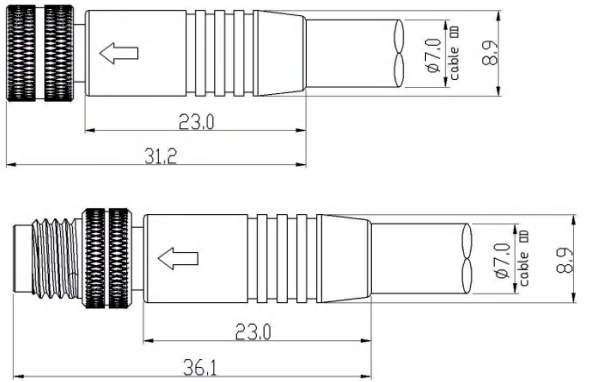


3.包胶外模

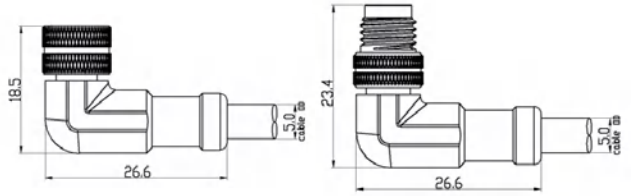
3.1.直头小模（电线 OD 不超过 5.0mm）



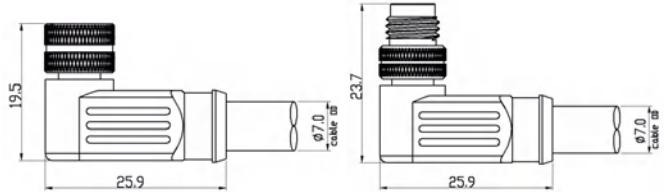
3.2.直头大模（电线 OD 不超过 7.0mm）



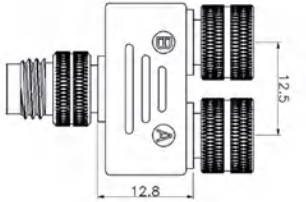
3.3.弯头小模（电线 OD 不超过 5.0mm）



3.4.弯头大模（电线 OD 不超过 7.0mm）



4.转接头/adapter



“Y”形转接头

（此类转接头的三款连接器及其相互之间的线位可根据客户需求定制）





5.常用电线

5.1控制线 UL2464(无屏蔽)

CT-P/N	规格	外皮材质	外皮颜色	特性
ZB0010	UL2464 22AWG*3C，0D4.6mm	PVC	黑色	无屏蔽
ZB0003	UL2464 22AWG*4C，0D4.7mm	PVC	黑色	无屏蔽
ZB0020	UL2464 24AWG*5C，0D5.0mm	PVC	黑色	无屏蔽
ZB0019	UL2464 26AWG*6C，0D5.0mm	PVC	黑色	无屏蔽
ZB0006	UL2464 26AWG*8C，0D5.5mm	PVC	黑色	无屏蔽

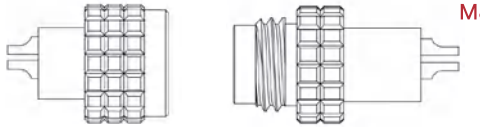
M8 常规插头系列 M8 plug serie

M8A1



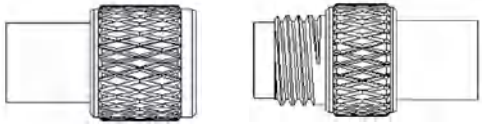
M8A1

M8A3



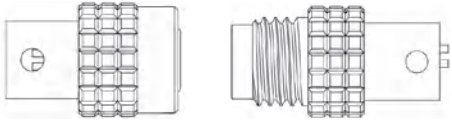
M8A3

M8I1



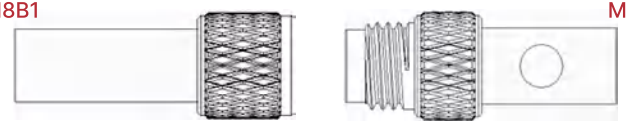
M8I1

M8I3



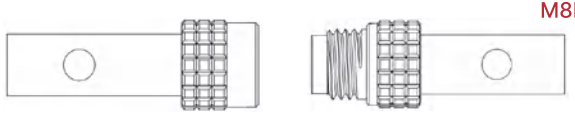
M8I3

M8B1



M8B1

M8B3



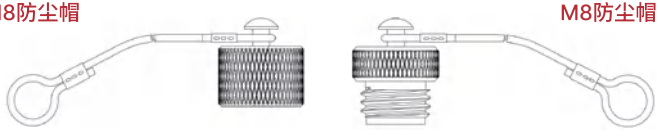
M8B3

M8G1



M8G1

M8防尘帽



M8防尘帽

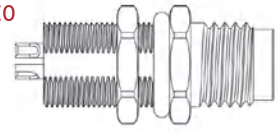
M8物流线



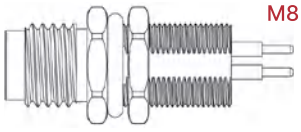
M8物流线

M8 常规插座系列 M8 Socket series

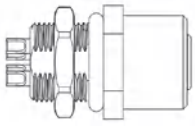
M8E0



M8E0



M8E0



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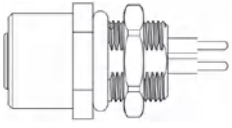
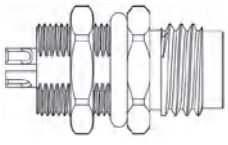
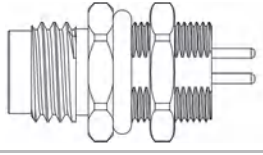


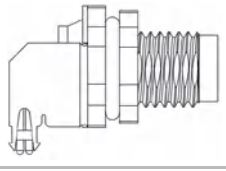
M8E6



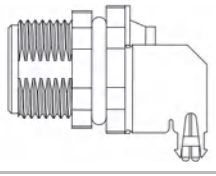
M8E6



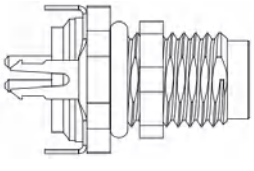
M8H4



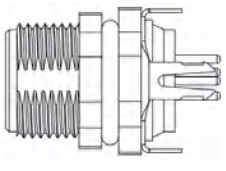
M8H4



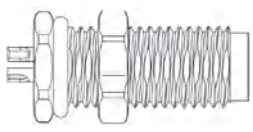
M8H4



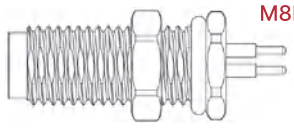
M8H4



M8F0



M8F0



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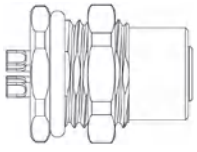
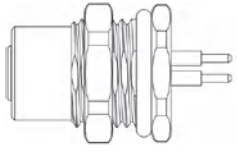
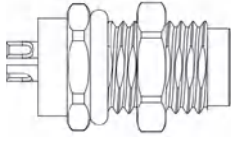


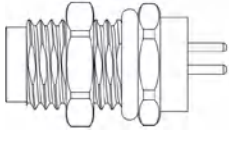
M8F0



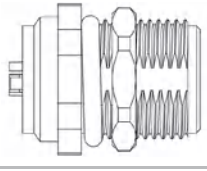
M8F6



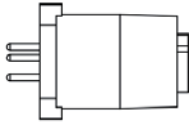
M8F6



M8F6



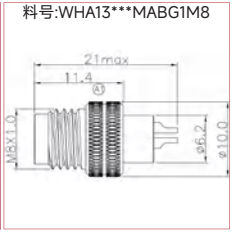
M8物流线



M8A1 Male 普通包胶式网纹公头
Ordinary rubber-coated mesh male plug



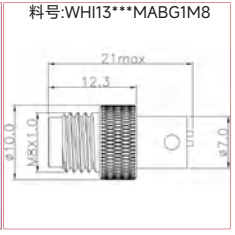
料号:WHA13***MABG1M8



M8I1 Male 半屏蔽网纹包胶式公头
Semi-shielded mesh rubber-coated male plug



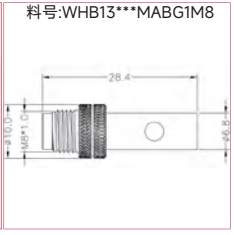
料号:WHI13***MABG1M8



M8B1 Male 全屏蔽网纹包胶式公头
Fully shielded mesh rubber-coated male plug



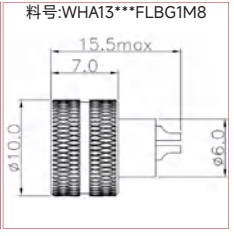
料号:WHB13***MABG1M8



M8A1 Famale 普通包胶式网纹母头
Ordinary rubber-coated mesh female plug



料号:WHA13***FLBG1M8



M8I1 Male 半屏蔽网纹包胶式母头
Semi-shielded mesh rubber-coated female plug



料号:WHI13***FLBG1M8



M8B1 Female 全屏蔽网纹包胶式母头
Fully shielded mesh rubber-coated female plug



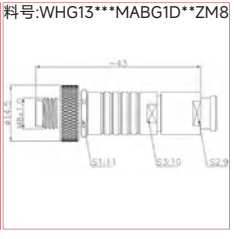
料号:WHB13***FLBG1M8



M8G1 Male 金属装配焊线式网纹公头
Metal assembly welding wire mesh male plug



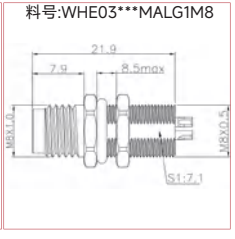
料号:WHG13***MABG1D**ZM8



M8E0 Male 后锁插座公头（焊接）
Rear lock socket male (soldering)



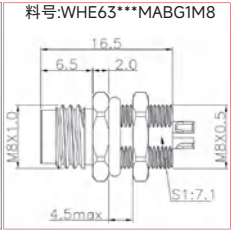
料号:WHE03***MALG1M8



M8E6 Male 后锁插座短款公头（焊接）
Rear lock socket short male (soldering)



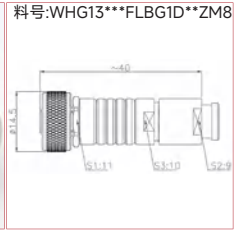
料号:WHE63***MABG1M8



M8G1 Famale 金属装配焊线式网纹母头
Metal assembly welding wire mesh female plug



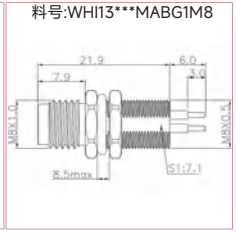
料号:WHG13***FLBG1D**ZM8



M8E0 Male 后锁插座公头（PCB）
Rear lock socket male (PCB)



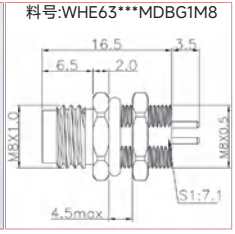
料号:WHI13***MABG1M8



M8E6 Male 后锁插座短款公头（PCB）
Rear lock socket short male header (PCB)



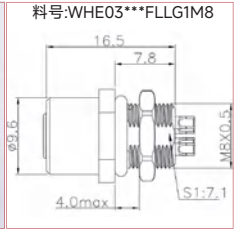
料号:WHE63***MDBG1M8



M8E0 Female 后锁插座母头（焊接）
Rear lock socket female (soldered)



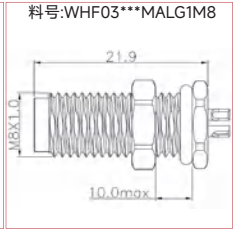
料号:WHE03***FLLG1M8



M8F0 Male 前锁插座公头（焊接）
Front lock socket male (soldered)



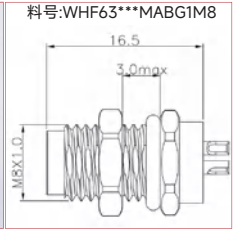
料号:WHF03***MALG1M8



M8F6 Male 前锁插座短款公头（焊接）
Front lock socket short male (soldered)



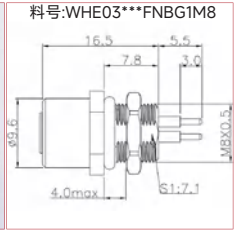
料号:WHF63***MABG1M8



M8E0 Female 后锁插座母头（PCB）
Rear lock socket female (PCB)



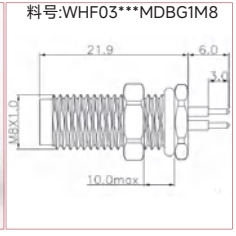
料号:WHE03***FNBG1M8



M8F0 Male 前锁插座公头（PCB）
Front lock socket male (PCB)



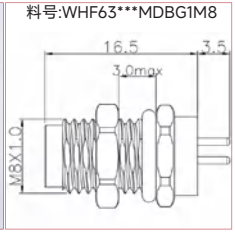
料号:WHF03***MDBG1M8



M8F6 Male 前锁插座短款公头（PCB）
Front lock socket short male (PCB)



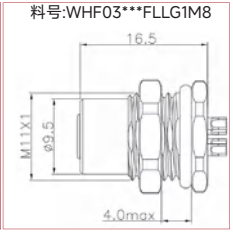
料号:WHF63***MDBG1M8



M8F0 Female 前锁插座公头（焊接）
Front lock socket male (soldered)



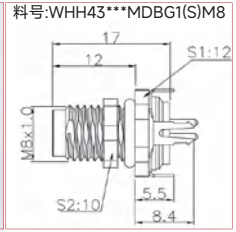
料号:WHF03***FLLG1M8



M8H4 Male 插板式直角公座（PCB）
Plug-in type right-angle male socket (PCB)



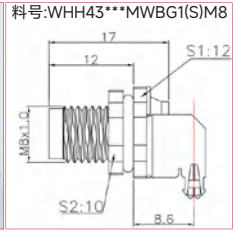
料号:WHH43***MDBG1(S)M8



M8H4 Male 插板式弯角公座（PCB）
Plug-in type angled male socket (PCB)



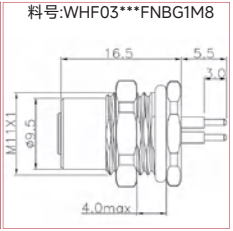
料号:WHH43***MWBG1(S)M8



M8F0 Female 前锁插座母头（PCB）
Front lock socket female (PCB)



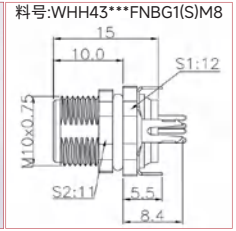
料号:WHF03***FNBG1M8



M8H4 Female 插板式直角母座（PCB）
Plug-in type right-angle female socket (PCB)



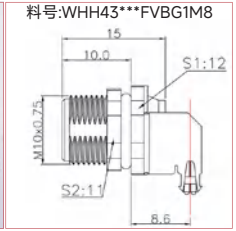
料号:WHH43***FNBG1(S)M8



M8H4 Male 插板式弯角母座（PCB）
Plug-in type angled female socket (PCB)



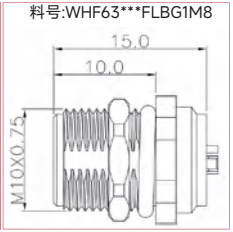
料号:WHH43***FVBG1M8



M8F6 Female 前锁插座短款母头（焊接）
Front lock socket short female (soldered)



料号:WHF63***FLBG1M8



M8防尘帽 Male
Dust cap



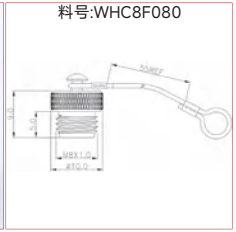
料号:WHC8M050



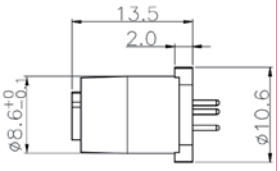
M8防尘帽 Female
Dust cap



料号:WHC8F080

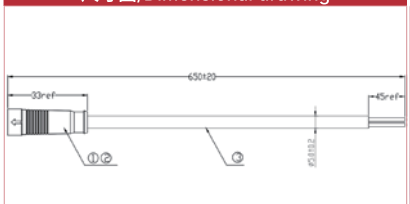


M8物流线 Female 插座 PCB /socket female PCB 料号:WHC905058

图例/legend	尺寸图/Dimensional drawing
	

芯数/Number of cores	305B
寿命/Durability	>500 mate/unmate cycles
Pin接触电阻/Pin contact resistance	≤10mΩ
绝缘电阻/Nsulation Resistance	≥ 100 MΩ
温度等级/Temperature grade	-25° C，+80°C
防水等级/Waterproof	IP67
盐雾/ Salt spray test	>48h

M8物流线 Male 插头 /plug 料号:WHC905059

尺寸图/Dimensional drawing	图例/legend
	

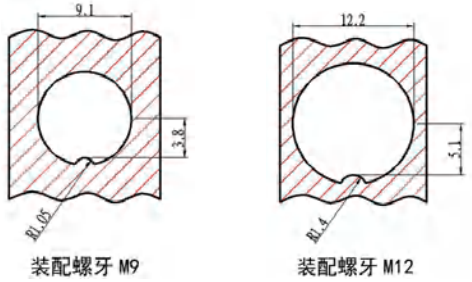
标准产品基础参数表 (注：此表为产品常规性能技术参数表，非常规产品支持定制)

303A	304A	305B	306A	308A	芯数/Number of cores
1.0mm			0.7mm	0.6mm	导体直径/Conductor diameter
24AWG			26AWG		适配线缆/Adaptable cable
3A			1A		额定电流/Rated current
60V	30V				额定电压/Rated voltage
≤10mΩ					接触电阻/contact resistance
≥100MΩ					绝缘电阻/Insulation resistance
>1000 mate/unmate cycles					寿命/Durability
-25° C，+80°C					温度等级/Temperature grade
IP67					防水等级/Waterproof
>48h					盐雾/ Salt spray test

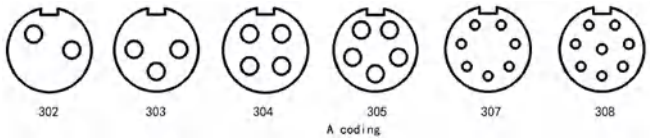

M9
CONNECTOR
信号+数据

M9 简介（M9 Introduction）

1.装配螺牙和安装孔关系（Assembly thread type）

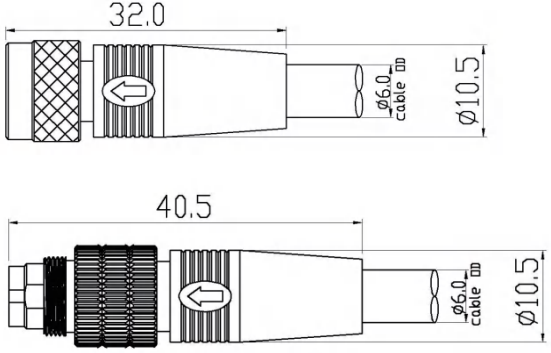


2.胶芯类型及芯数-M9(Insulator type-M9)

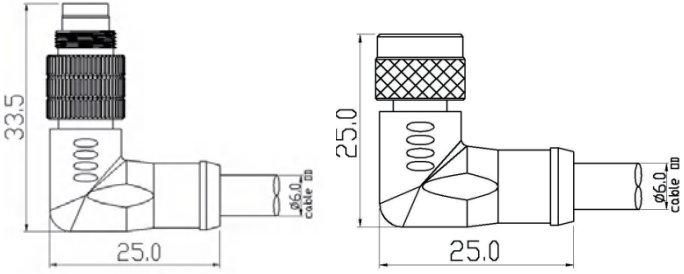


3.包胶外模

3.1直头(电线 OD 不超过 6.0mm)

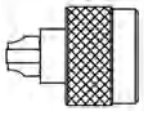


3.2弯头(电线 OD 不超过 6.0mm)

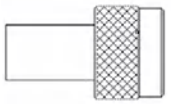


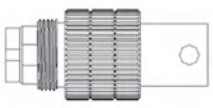
M9 常规插头系列 M9 plug serie

M9A1



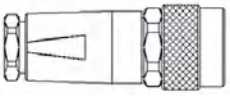
M9I1

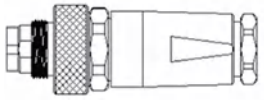




M9I1

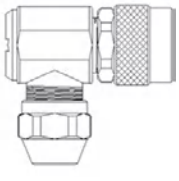
M9GS

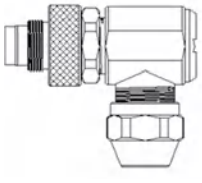




M9GS

M9GE

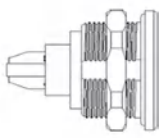


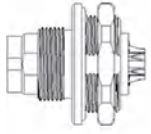


M9GE

M9 常规插座系列 M9 Socket series

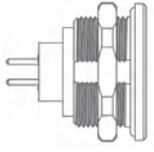
M9E9

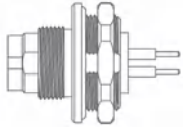




M9E9

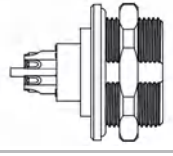
M9E9

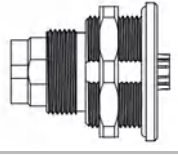




M9E9

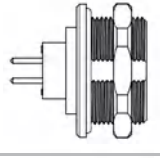
M9F9

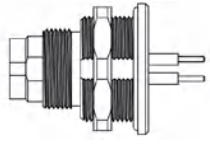




M9F0/9

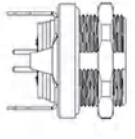
M9F9

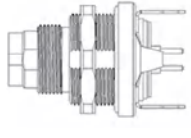




M9F0/9

M9H9





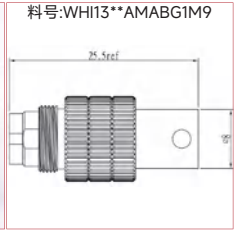
M9H9

M9I1 Male半屏蔽直纹包胶式公头

Semi-shielded straight-grain rubber-coated male plug



料号:WHI13**AMABG1M9

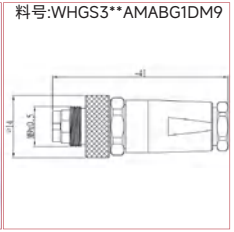


M9GS Male金属装配焊线式直角公头

Metal assembly wire solder style right angle male plug



料号:WHGS3**AMABG1DM9

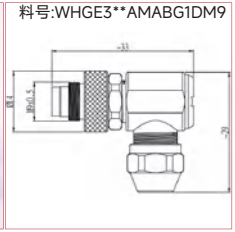


M9GE Male金属装配焊线式弯角公头

Metal assembly wire solder type angled male plug



料号:WHGE3**AMABG1DM9

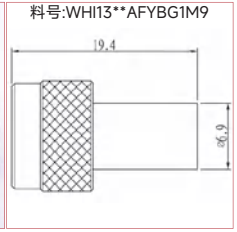


M9I1 Female半屏蔽直纹包胶式母头

Semi-shielded straight-grain rubber-coated female plug



料号:WHI13**AFYBG1M9

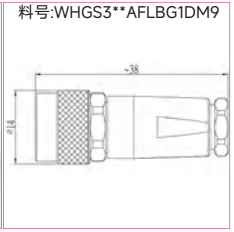


M9GS Female金属装配焊线式直角母头

Metal assembly wire soldering right angle female plug



料号:WHGS3**AFLBG1DM9

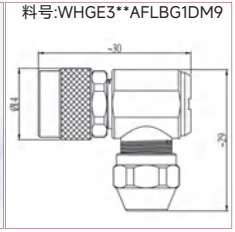


M9GE Female金属装配焊线式弯角母头

Metal assembly welding wire type angled female plug



料号:WHGE3**AFLBG1DM9

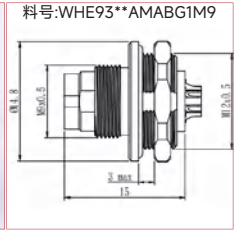


M9E9 Male后锁插座公头（焊接）

Rear lock socket male (soldering)



料号:WHE93**AMABG1M9

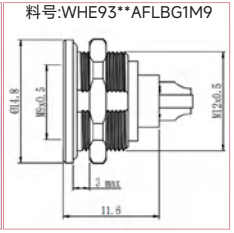


M9E9 Female后锁插座母头（焊接）

Rear lock socket female (soldered)



料号:WHE93**AFLBG1M9

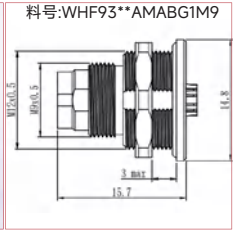


M9F9 Male前锁插座公头（焊接）

Front lock socket male (soldered)



料号:WHF93**AMABG1M9

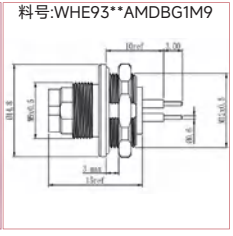


M9E9 Male后锁插座公头（PCB）

Rear lock socket male (PCB)



料号:WHE93**AMDBG1M9

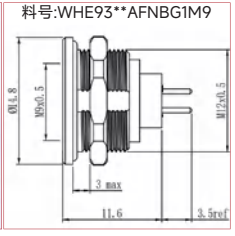


M9E9 Female后锁插座母头（PCB）

Rear lock socket female (PCB)



料号:WHE93**AFNBG1M9

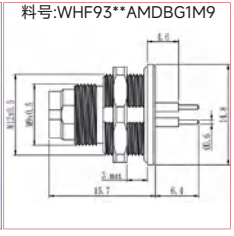


M9F9 Male前锁插座公头（PCB）

Front lock socket male (PCB)



料号:WHF93**AMDBG1M9

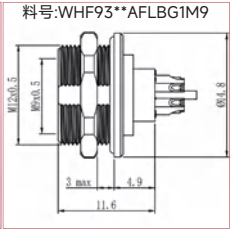


M9F9 Female前锁插座母头（焊接）

Front lock socket female (soldered)



料号:WHF93**AFLBG1M9

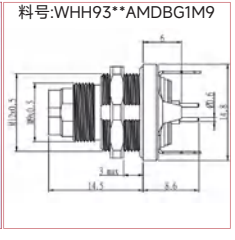


M9H9 Male插板式插座直角公头（PCB）

Plug-in board socket right angle male (PCB)



料号:WHH93**AMDBG1M9

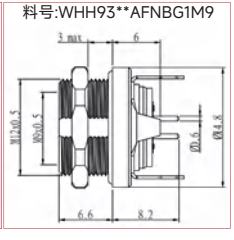


M9H9 Female插板式插座直角母头（PCB）

Plug-in board socket right angle female (PCB)



料号:WHH93**AFNBG1M9

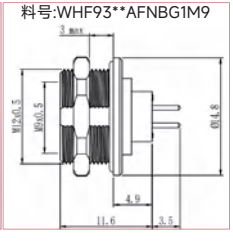


M9F9 Female前锁插座母头（PCB）

Front lock socket female (PCB)



料号:WHF93**AFNBG1M9



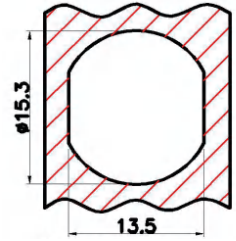
标准产品基础参数表 (注：此表为产品常规性能技术参数表，非常规产品支持定制)

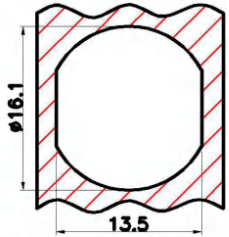
303	303	304	305	307	308	芯数/Number of cores
1.0mm				0.5mm		导体直径/Conductor diameter
24AWG				26AWG		适配线缆/Adaptable cable
4A		3A		1A		额定电流/Rated current
125V						额定电压/Rated voltage
≤10mΩ						接触电阻/contact resistance
≥100MΩ						绝缘电阻/Insulation resistance
＞500 mate/unmate cycles						寿命/Durability
-25° C，＋80°C						温度等级/Temperature grade
IP67						防水等级/Waterproof
＞48h						盐雾/ Salt spray test

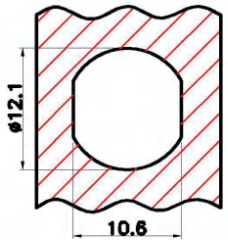

M12
CONNECTOR
信号+数据+电流

M12 简介（M12 Introduction）

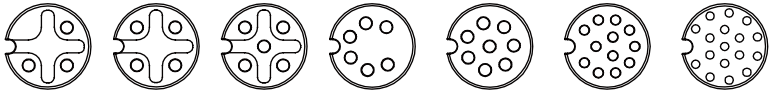
1.装配螺牙和安装孔关系（Assembly thread type）



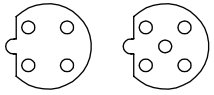




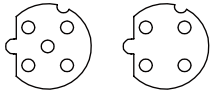
2.胶芯类型及芯数-M12（Insulator type-M12）



A coding



B coding



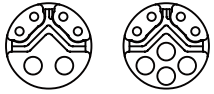
D coding



C coding



X coding



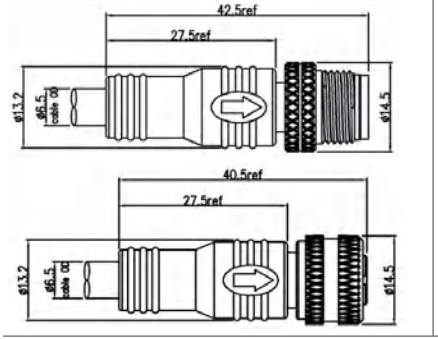
Y coding



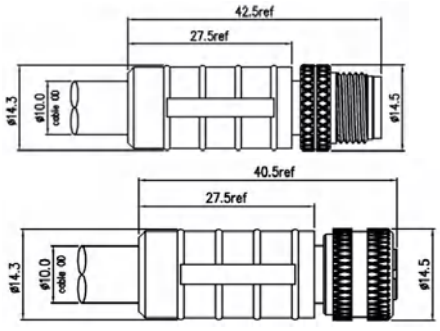
K coding L coding S coding T coding A coding

3.包胶外模

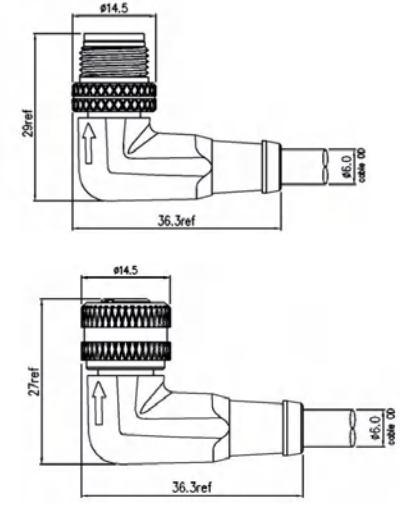
3.1 直头小模（电线 OD 不超过 6.5mm）



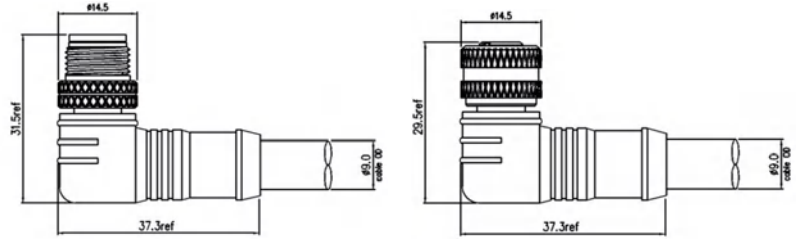
3.2 直头大模（电线 OD不超过 10mm）



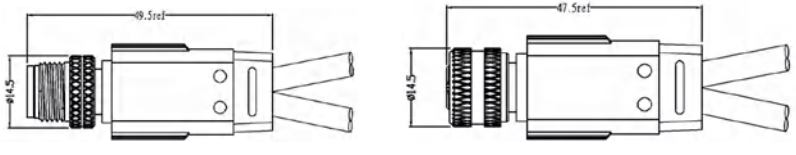
3.3 弯头小模（电线 OD 不超过 6.5mm）



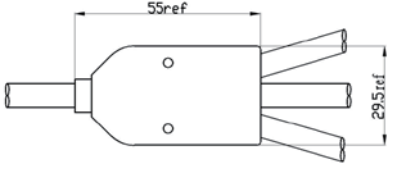
3.4 弯头大模（电线 OD 不超过 9mm）



3.5 一出二分线直头外模

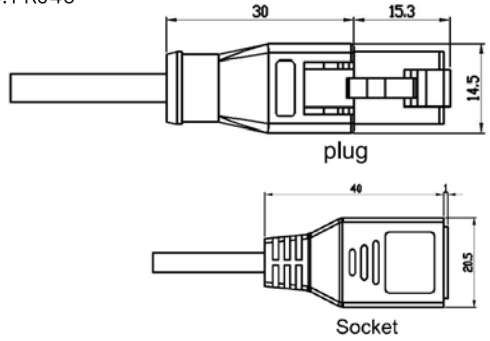


3.6 一出多分线模

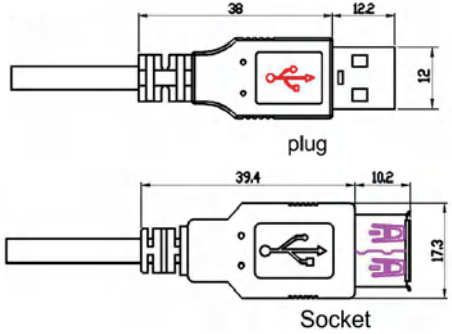


4.线束搭配连接器

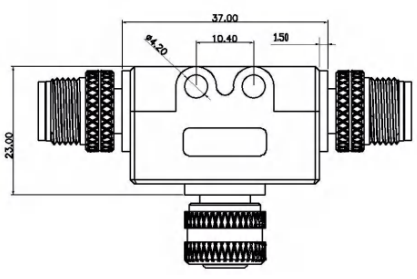
4.1 RJ45



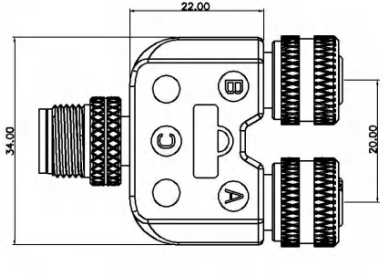
4.2 USB



三通转接头



T 型转接



Y 型转接头



(此类转接头的三款连接器及其相互之间的线位可根据客户需求定制)

3. 常用电线

3.1 电子线 UL1007

CT-P/N	AWG	外径	温度	颜色
CW0001	22	1.6	80°C	黑、红、黄、白、蓝、紫、灰、棕
CW0002	24	1.4	80°C	黑、红、黄、白、蓝、绿、紫、灰、橙、棕、粉红
CW0003	26	1.3	80°C	黑、红、黄、白、兰、绿、紫、灰、橙、棕

3.2 网线

CT-P/N	规格	外皮材质	外皮颜色	特性
CB0017	26AWG*4P，0D7.0mm	PVC	绿色	屏蔽
CB0029	26AWG*4P，0D6.5mm	PVC	黑色	屏蔽
CB0018	24AWG*4P，0D5.5mm	PVC	黑色	非屏蔽
CB0019	24AWG*2P，0D6.7mm	PVC	黑色	屏蔽

3.3 USB

CT-P/N	规格	外皮材质	外皮颜色	特性
CB0051	28AWG/1P+24AWG/2C，0D4.4mm	PVC	黑色	屏蔽

3.4 控制线 UL2464(无屏蔽)

CT-P/N	规格	外皮材质	外皮颜色	特性
ZB0003	UL2464 22AWG*4C，0D4.7mm	PVC	绿色	非屏蔽
ZB0004	UL2464 22AWG*5C，0D5.6mm	PVC	黑色	非屏蔽
ZB0005	UL2464 24AWGx8C，0D5.8mm	PVC	黑色	非屏蔽
ZB0006	UL2464 26AWGx12C，0D6.5mm	PVC	黑色	非屏蔽

3.5 控制线 UL2464(屏蔽)

CT-P/N	规格	外皮材质	外皮颜色	特性
ZB0007	UL2464 22AWG*4C，0D5.2mm	PVC	黑色	屏蔽
ZB0008	UL2464 22AWG*50，0D6.1mm	PVC	黑色	屏蔽
ZB0016	UL2464 24AWG*8C，0D6.3mm	PVC	黑色	屏蔽

3.6 控制线（PUR)

CT-P/N	规格	外皮材质	外皮颜色	特性
CB0008	22AWG*4C 0D4.6mm	PUR	黑色	非屏蔽

3.7 拖链线

CT-P/N	规格	外皮材质	外皮颜色	特性
TL0001	拖链型 4芯超五类 SFTP 双屏蔽	PVC	绿色	屏蔽
TL0002	拖链型 8 芯超五类 SFTP 双屏蔽工业	PVC	黑色	屏蔽
TL0003	拖链型8芯带十字架超六类 SFTP 双屏蔽	PVC	橙色	屏蔽
TL0004	工业拖链型 8芯七类 SFTP 双屏蔽	PVC	黑色	屏蔽

M12 常规（信号/电流）插头 / M12 conventional (signal/current) plug

M12A1



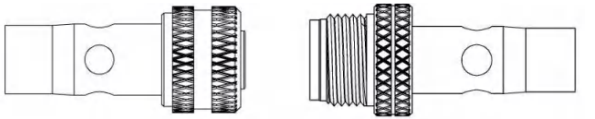
M12A1

M12I1



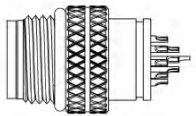
M12I1

M12B1



M12B1

M12S1



M12S1

C12F150

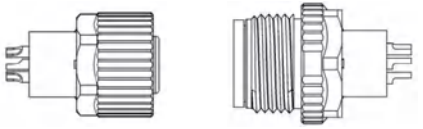


C12M150



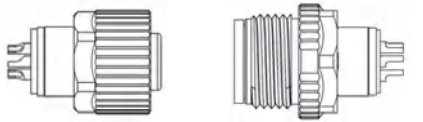
C12M150

M12C5-U



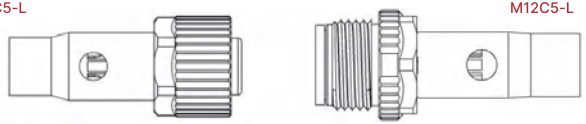
M12C5-U

M12C5-S



M12C5-S

M12C5-L



M12C5-L

M12K1



M12K1

M12K5



M12K5

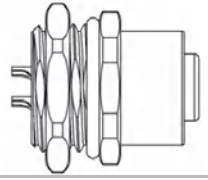
M12KB

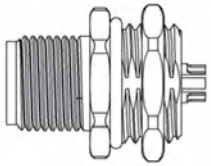


M12KB

M12 常规(信号/电流）插座 / M12 conventional (signal/current) socket

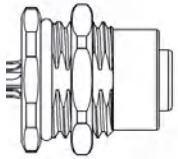
M12E7
装配孔PG9

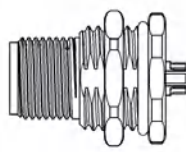




M12E7
装配孔PG9

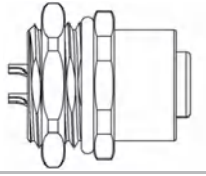
M12F7
装配孔PG9

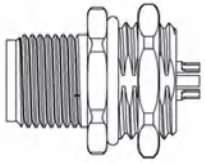




M12F7
装配孔PG9

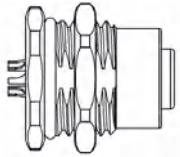
M12E8
装配孔M16

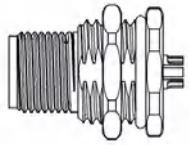




M12E8
装配孔M16

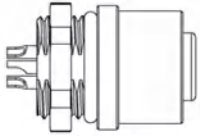
M12F8
装配孔M16

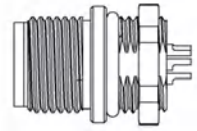




M12F8
装配孔M16

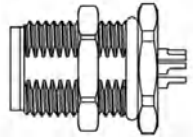
M12E9
装配孔M12





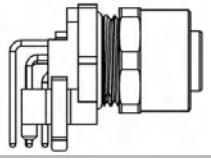
M12E9
装配孔M12

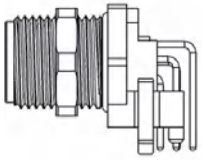
M12F9
装配孔M12



M12F9
装配孔M12

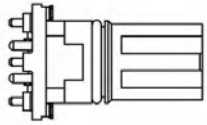
M12H4
装配孔M12

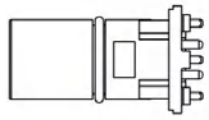




M12H4
装配孔M12

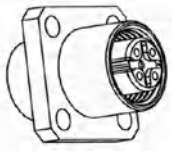
M12H9
外壳可选

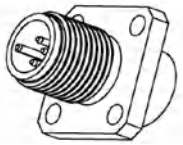




M12H9
外壳可选

M12D
装配孔 OD12.2





M12D
装配孔 OD12.2

M12A1 Male 普通网纹包胶式公头

Overmold type male



料号:WHA1****MABG1M12

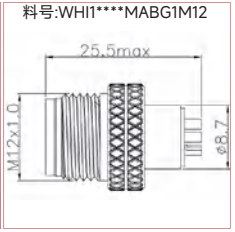


M12I1 Male 半屏蔽网纹包胶式公头

Semi shielding overmold type male



料号:WHI1****MABG1M12

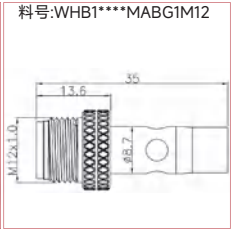


M12B1 Male 全屏蔽网纹包胶式公头

Full shielding overmold type male



料号:WHB1****MABG1M12

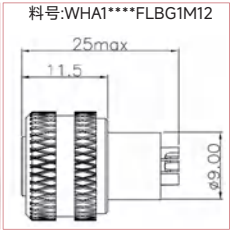


M12A1 Female 普通网纹包胶式母头

Overmold type female



料号:WHA1****FLBG1M12



M12I1 Female 半屏蔽网纹包胶式母头

Semi shielding overmold type femal



料号:WHI1****FLBG1M12

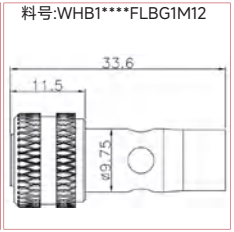


M12B1 Female 全屏蔽网纹包胶式母头

Full shielding overmold type female



料号:WHB1****FLBG1M12

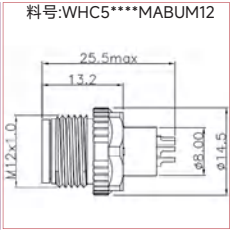


M12C5-U Male 无屏蔽防振防松包胶式公头

Overmold type shockproof male



料号:WHC5****MABUM12

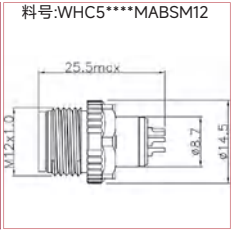


M12C5-S Male 半屏蔽防振防松包胶式公头

Semi shielding overmold type shockproof male



料号:WHC5****MABSM12

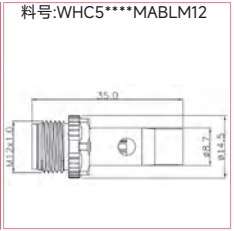


M12C5-L Male 全屏蔽防振防松包胶式公头

Full shielding overmold type shockproof male



料号:WHC5****MABLM12

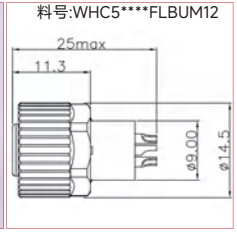


M12C5-U Female 无屏蔽防振防松包胶式母头

Overmold type shockproof female



料号:WHC5****FLBUM12

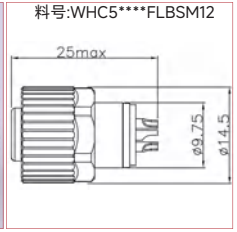


M12C5-S Female 半屏蔽防振防松包胶式母头

Semi shielding overmold type shockproof female



料号:WHC5****FLBSM12

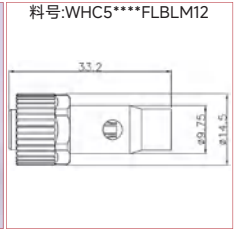


M12C5-L Female 全屏蔽防振防松包胶式母头

Full shielding overmold type shockproof female



料号:WHC5****FLBLM12



M12K1 Male 装配式防水公头

Assembly type waterproof male



料号:WHK1****MABG1K9(7)M12



M12K5 Male 装配式防水公头

Assembly type waterproof male



料号:WHK5****MCBG1K8M12



M12KB Male 装配式防水公头

Assembled waterproof male connector



料号:WHKB****MCBG5K*M12

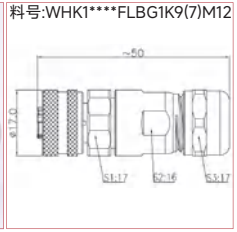


M12K1 Female 装配式防水母头

Assembly type waterproof female



料号:WHK1****FLBG1K9(7)M12

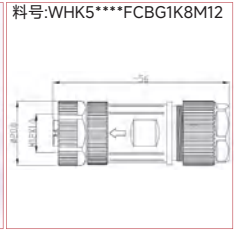


M12K5 Female 装配式防水母头

Assembly type waterproof female



料号:WHK5****FCBG1K8M12

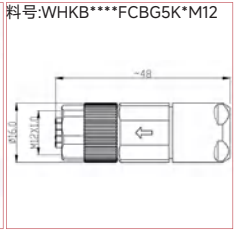


M12KB Female 装配式防水母头

Assembly type waterproof female



料号:WHKB****FCBG5K*M12

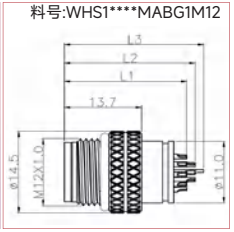


M12S1 Male 半屏蔽带弹簧包胶式公头

Semi shielding overmold type with spring male



料号:WHS1****MABG1M12

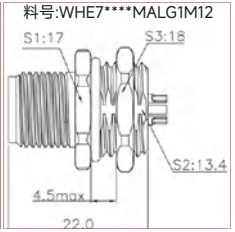


M12E7/8 Male 内锁公座 焊线式 (PG9/M16)

Internal locking male socket, wire welding type (PG9/M16)



料号:WHE7****MALG1M12

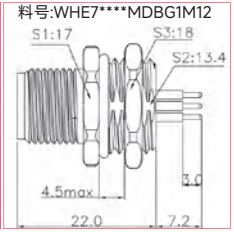


M12E7/8 Male 内锁公座 PCB式 (PG9/M16)

Internal locking male seat PCB type (PG9/M16)



料号:WHE7****MDBG1M12

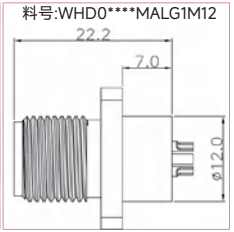


M12D0 Male 方形法兰公座

Square flange socket male



料号:WHD0****MALG1M12



M12E7/8 Female 内锁母座 焊线式 (PG9/M16)

Internal lock female seat welding type (PG9/M16)



料号:WHE7****FLLG1M12

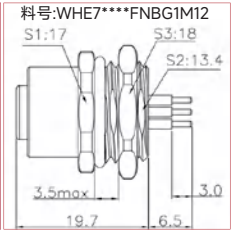


M12E7/8 Female 内锁母座 PCB式 (PG9/M16)

Internal lock female base PCB type (PG9/M16)



料号:WHE7****FNBG1M12

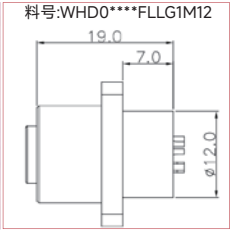


M12D0 Female 方形法兰母座

Square flange socket female



料号:WHD0****FLLG1M12

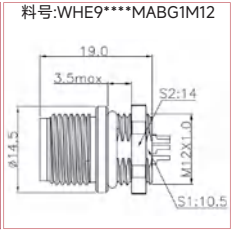


M12E9 Male 内锁公座 焊线式 (M12)

Internal locking male socket, wire welding type (M12)



料号:WHE9****MABG1M12

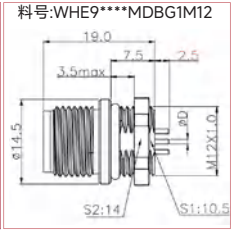


M12E9 Male 内锁公座 PCB式 (M12)

Internal locking male seat PCB type (M12)



料号:WHE9****MDBG1M12

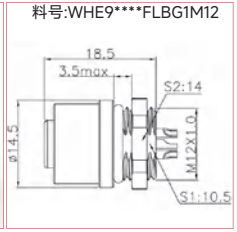


M12E9 Female 内锁母座 焊线式 (M12)

Internal lock female seat welding type (M12)



料号:WHE9****FLBG1M12

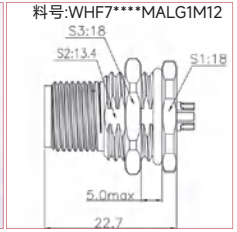


M12F7/8 Male 外锁公座 焊线式 (PG9/M16)

External locking male socket, wire welding type (PG9/M16)



料号:WHF7****MALG1M12

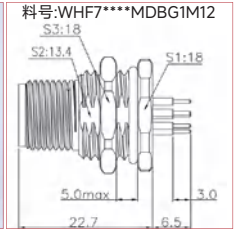


M12F7/8 Male 外锁公座 PCB式 (PG9/M16)

External locking male base PCB type (PG9/M16)



料号:WHF7****MDBG1M12

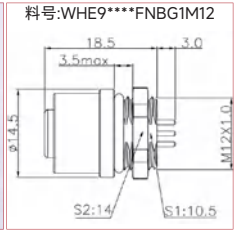


M12E9 Female 内锁母座 PCB式 (M12)

Internal lock female base PCB type (M12)



料号:WHE9****FNBG1M12

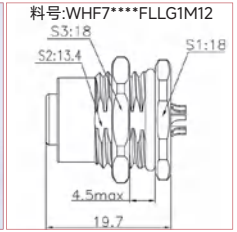


M12F7/8 Female 外锁母座 焊线式 (PG9/M16)

External lock female seat welding type (PG9/M16)



料号:WHF7****FLLG1M12

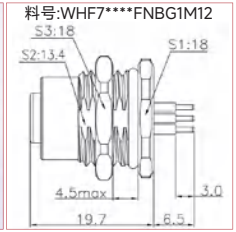


M12F7/8 Female 外锁母座 PCB式 (PG9/M16)

External lock female base PCB type (PG9/M16)



料号:WHF7****FNBG1M12

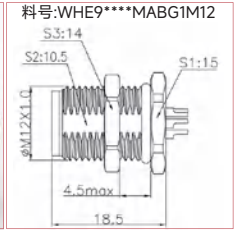


M12F9 Male 外锁公座 M12 焊线式

Front panel mounting socket male M12 pin solder



料号:WHE9****MABG1M12

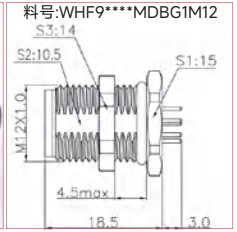


M12F9 Male 内锁公座 M12 PCB式

Locking male connector M12 PCB type



料号:WHF9****MDBG1M12

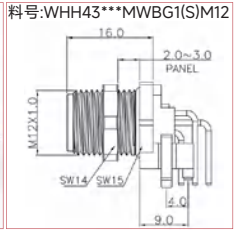


M12H4 Male 弯角公座 PCB 式

Right angle socket male PCB



料号:WHH43***MWBG1(S)M12

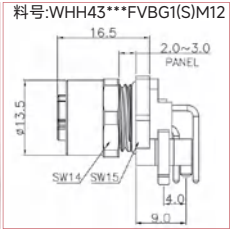


M12H4 Female 弯角母座 PCB 式

Right angle socket female PCB



料号:WHH43***FVBG1(S)M12

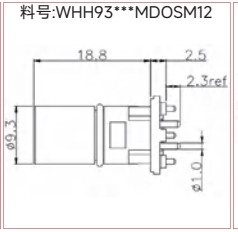


M12H9 Male PCB 式公座

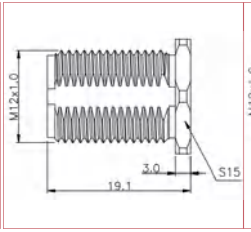
PCB socket male

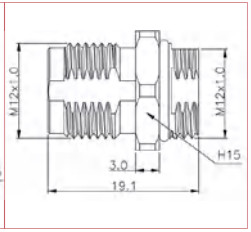


料号:WHH93***MDOSM12



可选外壳示例图/Example diagram



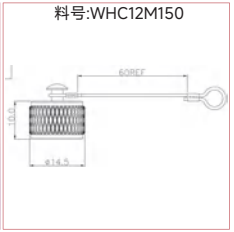


M12防尘盖 Male

Dust cap



料号:WHC12M150

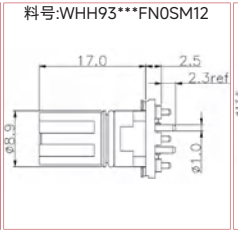


M12H9 Female PCB 式母座

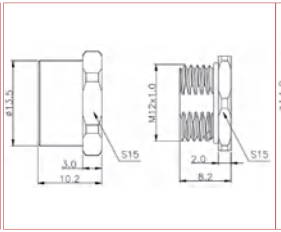
PCB socket female

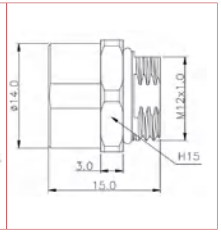


料号:WHH93***FN0SM12



可选外壳示例图/Example diagram



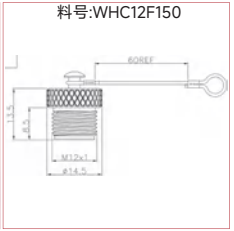


M12防尘盖 Female

Dust cap



料号:WHC12F150



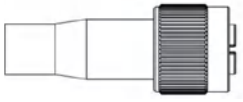
标准产品基础参数表 (注：此表为产品常规性能技术参数表，非常规产品支持定制)

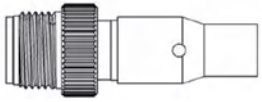
303C	303A	304A	304B	304D	305A	305B	305D	306A	308A	312A	317A	305K	305L	304S	304T	803A	芯数/Number of cores
4A								2A		1A		12A	16A	12A		15A	额定电流/Rated current
250V					60V			30V				630V .AC	63V	630V .AC	63V	220V. AC	额定电压/Rated voltage
1.0mm								0.8mm		0.6mm		1.5mm				1.8m m	导体直径/Conductor diameter
22AWG								24AWG		26AWG		16AWG					适配线缆/Adaptable cable
＞500 mate/unmate cycles																	寿命/Durability
≤10mΩ																	接触电阻/contact resistance
≥100MΩ																	绝缘电阻/Insulation resistance
-25° C，＋80°C																	温度等级/Temperature grade
IP67																	防水等级/Waterproof
＞48h																	盐雾/ Salt spray test

M12以太网/M12 Ethernet

X 扣系列 / X coding serie

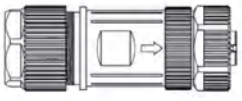
M12XA

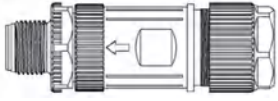




M12XA

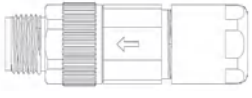
M12K5



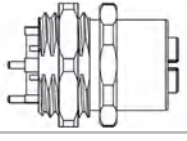


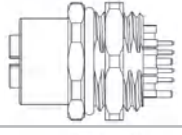
M12K5

M12KB



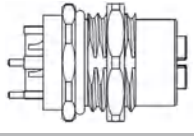
M12XE

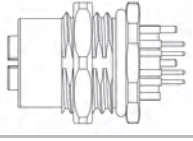




M12XE

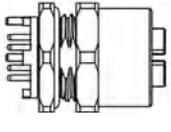
M12XF

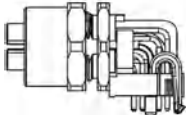




M12XF

M12H9-N
（外壳可选）

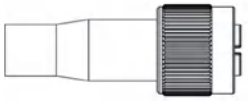


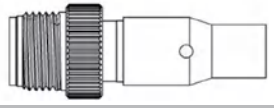


M12H9-V

Y 扣系列 / Y coding serie

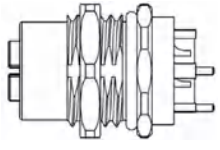
M12YA



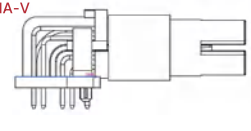


M12YA

M12YF



M12HA-V

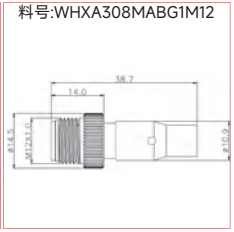


M12XA Male X coding 包胶式公头

X coding overmold type male



料号:WHXA308MABG1M12

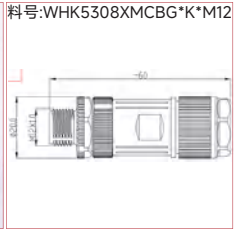


M12K5 Male X coding 装配式公头

X coding assembly type male



料号:WHK5308XMCBG*K*M12



M12KB Male X coding 装配式防水公头

X coding Assembled waterproof male connector



料号:WHKB****MCBG5K*M12

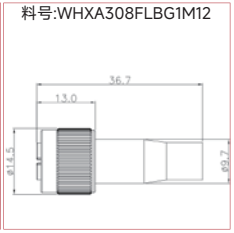


M12XA Female X coding 包胶式母头

X coding overmold type female



料号:WHXA308FLBG1M12

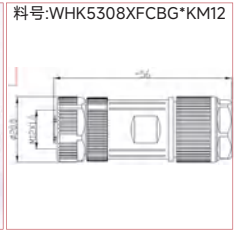


M12K5 Female X coding 装配式母头

X coding assembly type female



料号:WHK5308XFCBG*KM12

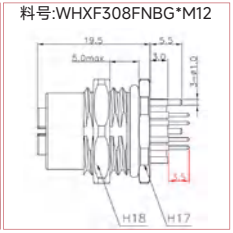


M12XF Female X coding 外锁母座（PCB）

X coding external lock female socket (PCB)



料号:WHXF308FNBG*M12

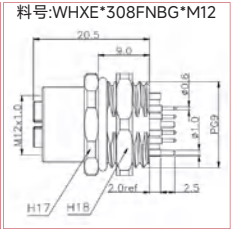


M12XE Female X coding 内锁母座 （PCB）

X coding internal locking female socket (PCB)



料号:WHXE*308FNBG*M12

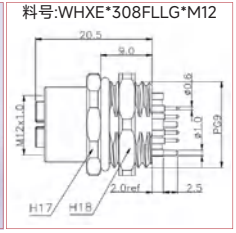


M12XE Female X coding 内锁母座（焊接）

X coding internal locking female socket (soldered)



料号:WHXE*308FLLG*M12

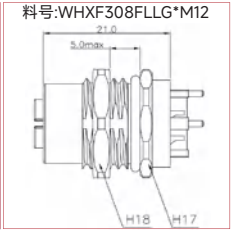


M12XF Female X coding 外锁母座（焊接）

X coding external lock female socket (soldered)



料号:WHXF308FLLG*M12

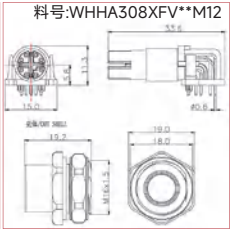


M12HA Female X coding 插板式弯角母座 (PCB)

X coding plug-in angled female base (PCB)



料号:WHHA308XFV**M12

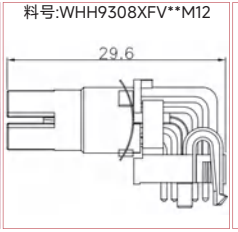


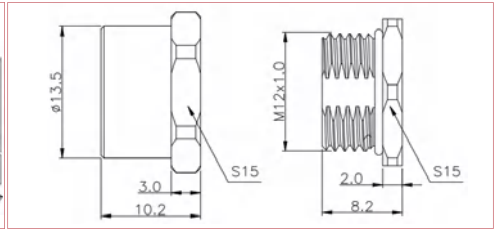
M12H9 Female X coding 插板式弯角母座 （PCB）

X coding plug-in angled female base (PCB)



料号:WHH9308XFV**M12



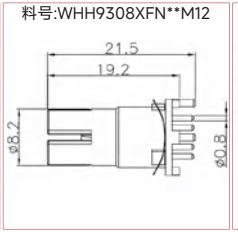


M12H9 Female X coding 插板式直角母座（PCB）

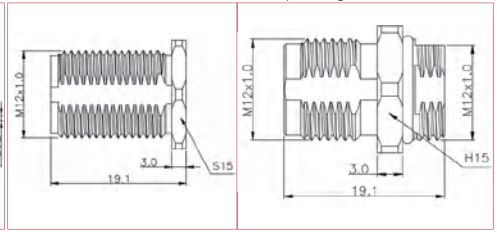
X coding plug-in right-angle female socket (PCB)



料号:WHH9308XFN**M12



可选外壳示例图/Example diagram



M12YA Male Y coding 全屏蔽包胶式公头

Y coding overmold type male



料号:WHYA308MABG1M12

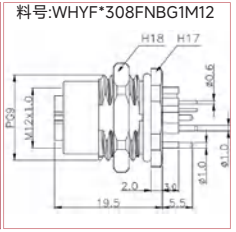


M12YF Female Y coding 8芯外锁母座(PCB)

Y coding 8-pin external lock female socket (PCB)



料号:WHYF*308FNBG1M12

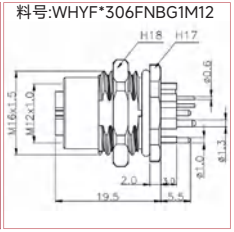


M12YF Female Y coding 6芯外锁母座(PCB)

Y coding 6 core external lock female base (PCB)



料号:WHYF*306FNBG1M12



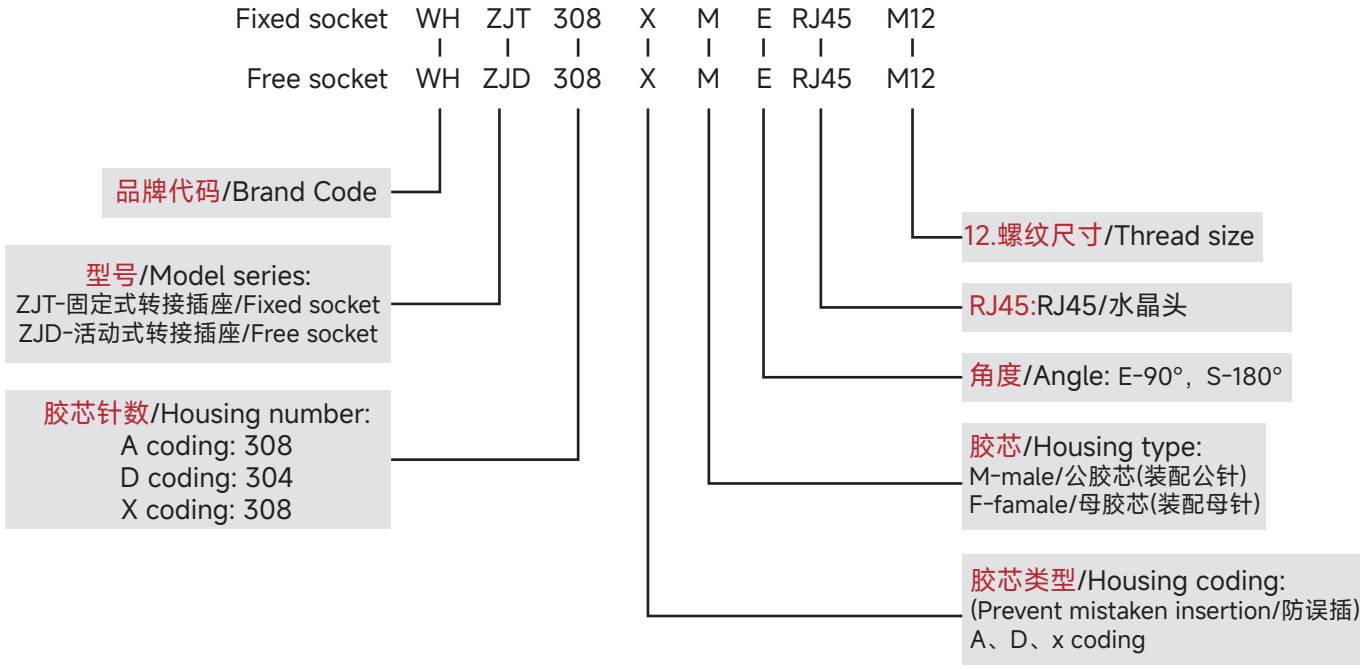
X coding		Y coding	
308	芯数/Number of cores	306	308
0.5A	额定电流/Rated current	12A	
48V	额定电压/Rated voltage	50V	
＞500 mate/unmate cycles	寿命/Durability	＞500 mate/unmate cycles	
≤10mΩ	Pin接触电阻/Pin contact resistance	≤10mΩ	
≥100MΩ	绝缘电阻/Nsulation Resistance	≥100MΩ	
-25° C，+80°C	温度等级/Temperature grade	-25° C，+80°C	
IP67	防水等级/Waterproof	IP67	
＞48h	盐雾/ Salt spray test	＞48h	
26~24AWG	适配线缆/Adaptable cable		

M12RJ45转接头

信号+数据

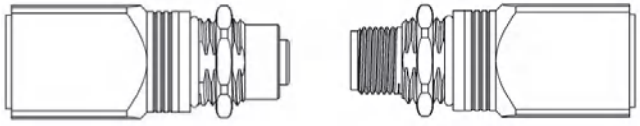


M12/RJ45 转接头编码原则 M12 to RJ45 Adaptor Part Number System

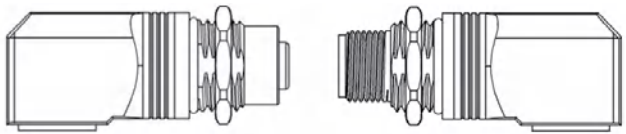


面板式转接头系列/Panel type adapter serie

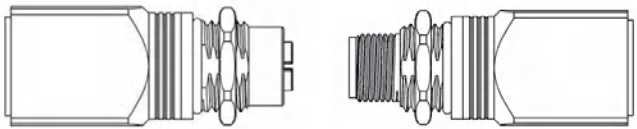
M12 转 RJ45
直头



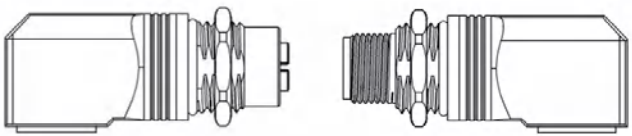
M12 转 RJ45
弯头



M12 X coding 转 RJ45
直头

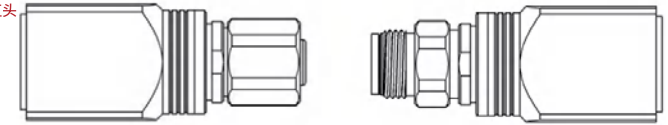


M12 X coding 转 RJ45
弯头

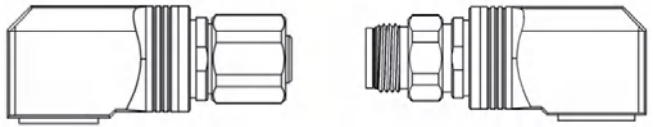


活动式转接头系列/Movable adaptor serie

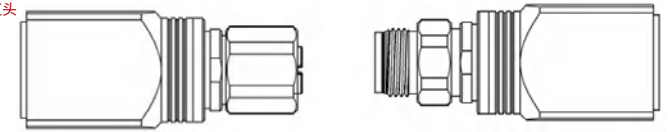
M12 转 RJ45
直头



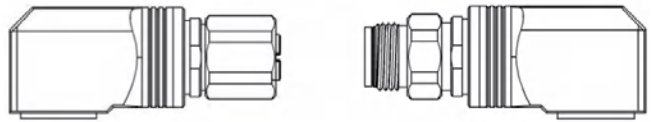
M12 转 RJ45
弯头



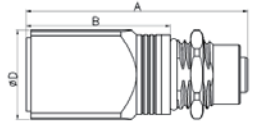
M12 X coding 转 RJ45
直头



M12 X coding 转 RJ45
弯头

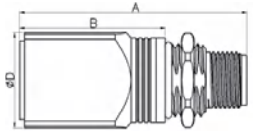


ZJT-AFS 直式固定式母转接头 Straight panel type female adaptr



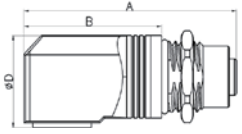
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT3**AFSRJ45M12	**	49.2	32	20

ZJT-AMS 直式固定式公转接头 Straight panel type male adapter



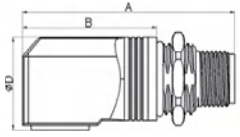
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT3**AMSRJ45M12	**	50	32	20

ZJT-AFE 弯角固定式母转接头 Bend angle panel type female adapter



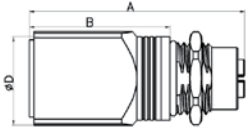
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT3**AFERJ45M12	**	48.7	31.5	19.8

ZJT-AME 弯角固定式公转接头 Bend angle panel type male adapter



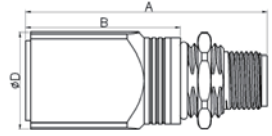
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT3**AMERJ45M12	**	49	31	19.8

ZJT-XFS 直式 X code 固定式母转接头 Straight panel type X code female adapter



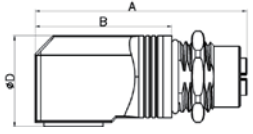
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT308XFSRJ45M12	8	49.7	32	20

ZJT-XMS 直式 X code 固定式公转接头 Straight panel type X code male adapter



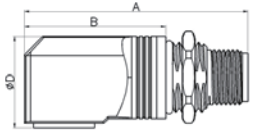
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT308XMSRJ45M12	8	50	32	20

ZJT-XFE 弯角 X code 固定式母转接 Bend angle panel type X code female adapter



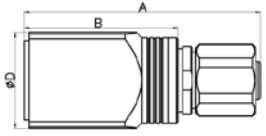
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT308XFERJ45M12	8	48.7	31	19.8

ZJT-XME 弯角 X code 固定式公转接头 Bend angle panel type X code male adapter



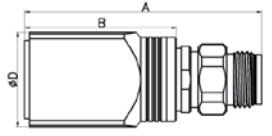
料号	芯数	尺寸(MM)		
		A	B	D
WHZJT308XMERJ45M12	8	49	31	19.8

ZJD-AFS 直式活动式母转接头 Straight movable female adaptr



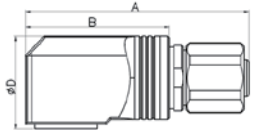
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD3**AFSRJ45M12	**	49.2	32	20

ZJD-AMS 直式活动式公转接头 Straight movable male adapter



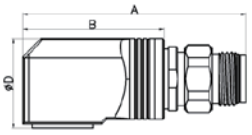
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD3**AMSRJ45M12	8	49	31	19.8

ZJD-AFE 弯角活动式母转接头 Bend angle movable female adapter



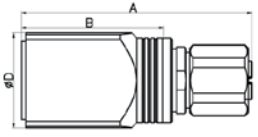
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD3**AFERJ45M12	**	48.2	31	19.8

ZJD-AME 弯角活动式公转接头 Bend angle movable male adapter



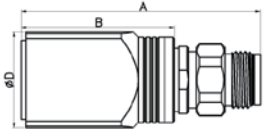
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD3**AMERJ45M12	**	49	31	19.8

ZJD-XFS 直式 X code 活动式母转接头 Straight movable X code female adapter



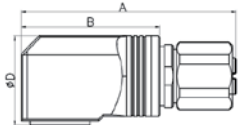
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD308XFSRJ45M12	8	49.7	32	20

ZJD-XMS 直式 X code 活动式公转接头 Straight movable X code male adapter



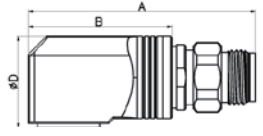
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD308XMSRJ45M12	8	50	32	20

ZJD-XFE 弯角 X code 活动式母转接头 Bend angle movable X code female adapter



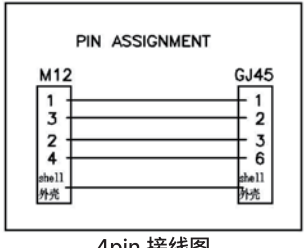
料号	芯数	尺寸(MM)		
		A	B	D
WHZJD308XFERJ45M12	8	48.7	31	19.8

ZJD-XME 弯角 X code 活动式公转接头 Bend angle movable X code male adapter

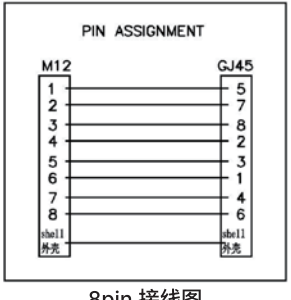


料号	芯数	尺寸(MM)		
		A	B	D
WHZJD308XMERJ45M12	8	49	31	19.8

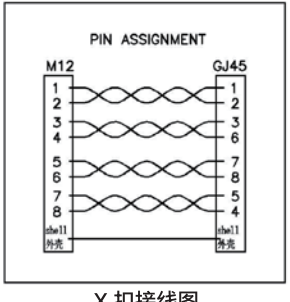
标准配线表



4pin 接线图



8pin 接线图

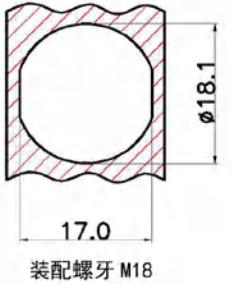


X 扣接线图

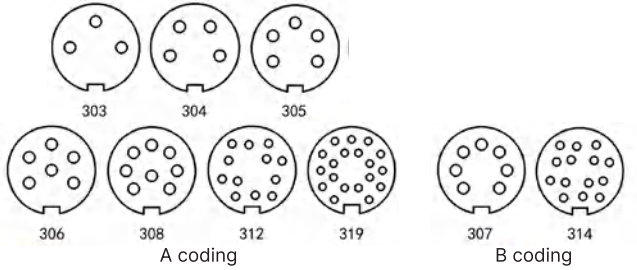

M16
CONNECTOR
信号+数据+电流

M16 简介（M16 Introduction)

1.装配螺牙和安装孔关系（Assembly thread type）

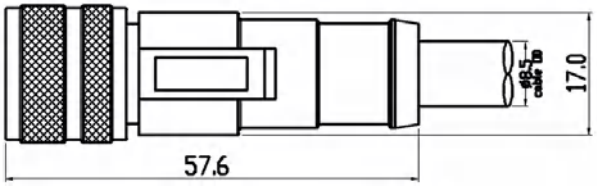


2.胶芯类型及芯数-M16(Insulator type-M16)

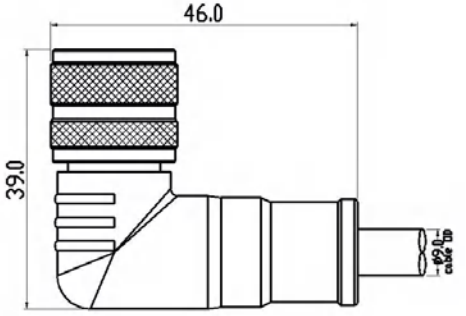


3.包胶外模

3.1直头（电线 OD 不超过 8.5mm）



3.2 弯头（电线 OD 不超过 9.0mm）



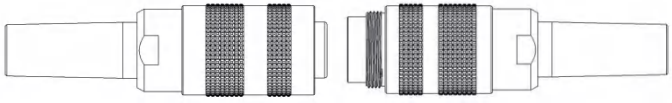
M16 常规插头系列 M16 plug serie

M16I1



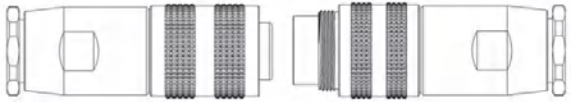
M16I1

M16G1



M16G1

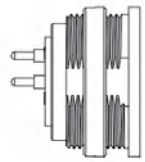
M16K1

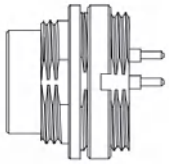


M16K1

M16 常规插座系列 M16 Socket series

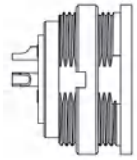
M16E0

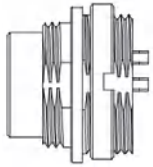




M16E0

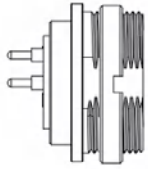
M16E0

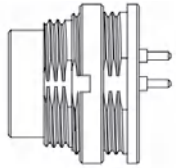




M16E0

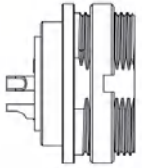
M16F0

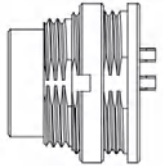




M16F0

M16F0





M16F0

M16I1 Female 半屏蔽壳包胶式插头 母胶芯

Half-shielded shell rubber-coated plug female rubber core



料号:WHI13***FLBG1M16

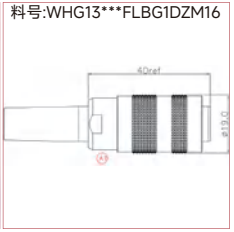


M16G1 Female 装配式带屏蔽插头 母胶芯

Assembled with shielded plug and masterbatch



料号:WHG13***FLBG1DZM16

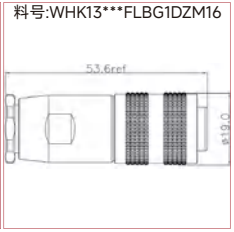


M16K1 Female 装配式带屏蔽防水插头 母胶芯

Assembled shielded waterproof plug with masterbatch core



料号:WHK13***FLBG1DZM16

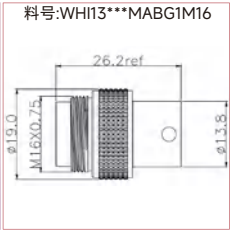


M16I1 Male 半屏蔽壳包胶式插头 公胶芯

Semi-shielded shell covered plug with male rubber core



料号:WHI13***MABG1M16

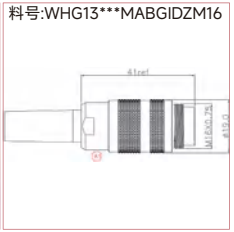


M16G1 Male 装配式带屏蔽插头 公胶芯

Assembled with shielded plug and male rubber core



料号:WHG13***MABGIDZM16

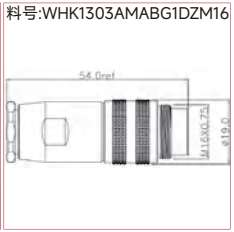


M16K1 Male 装配式带屏蔽防水插头 公胶芯

Fabricated shielded waterproof plug with male rubber core



料号:WHK1303AMABG1DZM16

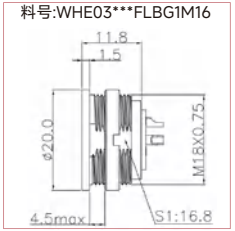


M16E0 Female 内锁插座焊接(板后安装) 母胶芯

Inner lock socket welding (rear board installation) Masterbatch core



料号:WHE03***FLBG1M16

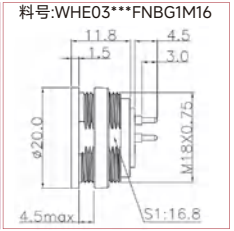


M16E0 Female 内锁插座PCB(板后安装) 母胶芯

Inner locking socket PCB (rear mounting) Master rubber core



料号:WHE03***FNBG1M16

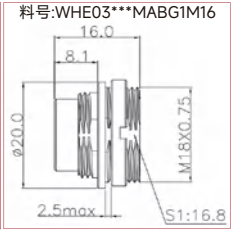


M16E0 Male 内锁插座焊接(板后安装) 公胶芯

Inner lock socket welding (rear board mounting) male rubber core



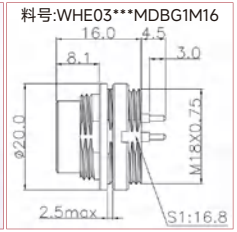
料号:WHE03***MABG1M16



M16E0 Male 内锁插座PCB(板后安装) 公胶芯

Inner locking socket PCB (rear mounting) Male rubber core

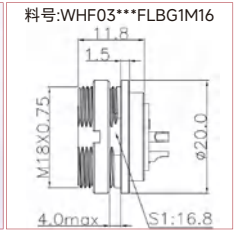




M16F0 Female 外锁插座焊接(板前安装) 母胶芯

Outer lock socket welding (board front mounting) Master rubber core

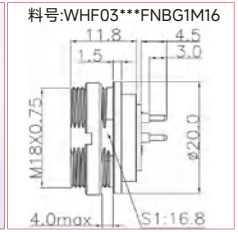




M16F0 Female 外锁插座PCB(板前安装) 母胶芯

External locking socket PCB (front mounting) Master rubber core

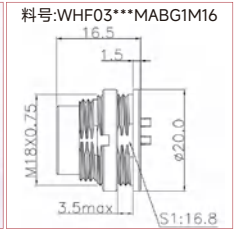




M16F0 Female 外锁插座焊接(板前安装) 母胶芯

Outer lock socket welding (board front mounting) Master rubber core

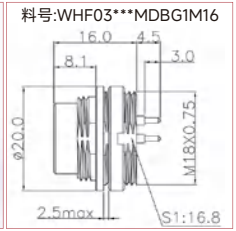




M16F0 Male 外锁插座PCB(板前安装) 公胶芯

External locking socket PCB (front mounting) male rubber core

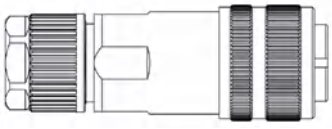




标准产品基础参数表 (注：此表为产品常规性能技术参数表，非常规产品支持定制)

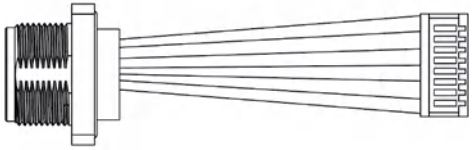
303A	304A	305A	306A	307B	308A	312A	314B	319A	芯数/Number of cores
7A	6A		5A			3A			额定电流/Rated current
250V				125V	60V				额定电压/Rated voltage
1.5mm						1.0mm			导体直径/Conductor diameter
0.75mm^2						0.25mm^2			适配线缆/Adaptable cable
＞500 mate/unmate cycles									寿命/Durability
≤10mΩ									Pin接触电阻/Pin contact resistance
-25° C，＋80°C									温度等级/Temperature grade
IP40									防水等级/Waterproof
＞48h									盐雾/ Salt spray test

M22 常规插头系列 M22 plug serie

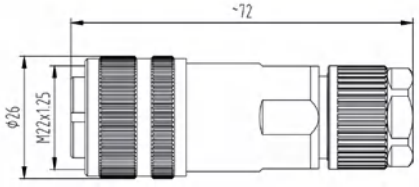




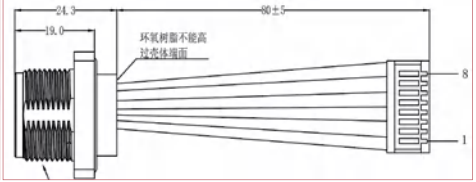
M22 常规插座系列 M22 Socket series



M22 Female 直式装配螺纹插头 7Pin Straight assembly threaded plug 7Pin

图例/legend	尺寸图/Dimensional drawing
	料号:WHRTZKA007015 

M22 Male 直式装配螺纹插头 7Pin Straight assembly threaded plug 2Pin

图例/legend	尺寸图/Dimensional drawing
	料号:WHRTZKA007002 

M22 CONNECTOR	
芯数/Number of cores	7
寿命/Durability	＞500 mate/unmate cycles
Pin接触电阻/Pin contact resistance	≤10mΩ
绝缘电阻/Nsulation Resistance	≥ 100 MΩ
温度等级/Temperature grade	-25° C，＋85°C
防水等级/Waterproof	IP67



M17 CONNECTOR

芯数/Number of cores	2	8
寿命/Durability	＞100 mate/unmate cycles	
Pin接触电阻/Pin contact resistance	≤10mΩ	
绝缘电阻/Nsulation Resistance	≥ 100 MΩ	
温度等级/Temperature grade	-25° C，+80°C	
防水等级/Waterproof	IP66/IP67	
盐雾/ Salt spray test	＞48h	



M23 CONNECTOR

芯数/Number of cores	310	510	314	315	315B
额定电流/Rated current	30A		30A/7A		
额定电压/Rated voltage	630V		630V/250V		
导体直径/Conductor diameter	2.0mm		2.0mm/1.0mm		
适配线缆/Adaptable cable	2.5mm²		2.5mm²/1.0mm²		
寿命/Durability	＞500 mate/unmate cycles				
Pin接触电阻/Pin contact resistance	≤10mΩ				
温度等级/Temperature grade	-25° C，+80°C				
防水等级/Waterproof	IP66/IP67				
盐雾/ Salt spray test	＞48h				

M23编码原则 M23 part Numbering system

WH	P	510	F	25	00	G	K	12	M23K
WH	S	315	F	25	10	G	K	12	M23K

品牌代码/Brand Code

链接方式/Locking Types:
P:Threaded/螺纹
S:Quick lock/快速锁定

胶芯针数/Housing number:
310[4*Ø2(3+PE)]
510[6*Ø2(5+PE)]
314[4*Ø2(3+PE)+4*Ø1]
315[4*Ø2(3+PE)+5*Ø1]
315B[4*Ø2(3+PE)+5*Ø1]芯

Housing type胶芯:F-female 母胶芯

压线范围/Crimping range:
Ø2.0:25=0.35--2.5mm² 40=2.5--4.0mm²

主型号/Type:Power

线缆范围/Cable clamping range:
10--Cable 0D 8~10.5mm
12--Cable OD 11~12.5mm
15--Cable 0D 13~15.5mm

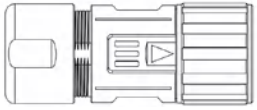
线夹 Cable clamp

"PE" Pin与壳体标示点的相对角度Angle between "PE" Pin and shell mark:
G=0° A=90°

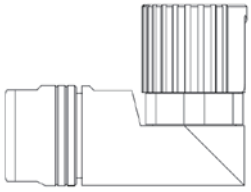
压线范围/Crimping range:
ø1.0: 05=0.2--0.5mm² 10=0.5--1.0mm²
Vacancy=00

M17 常规插头系列 M17 plug serie

M17直头

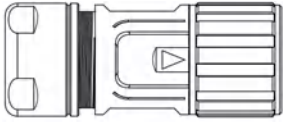


M17弯头

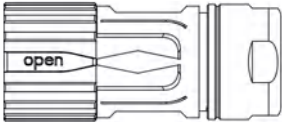


M23 常规插头系列 M23 plug serie

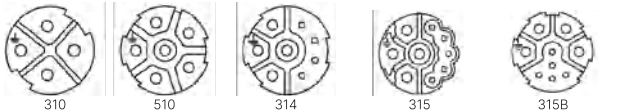
M23KP



M23KS



胶芯类型及芯数-M23(Insulator type-M23)



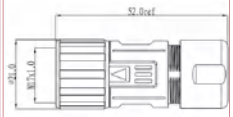
310	510	314	315	315B
[4xø2(3+PE)]	[6xø2(5+PE)]	[4xø2(3+PE)+4xø1]	[4xø2(3+PE)+5xø1]	[4xø2(3+PE)+5xø1]

M17 Female 直式装配螺纹插头　2Pin

Straight assembly threaded plug 2Pin



料号:WHD271001

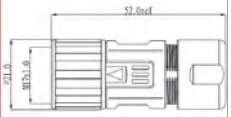


M17 Female 直式装配螺纹插头　8Pin

Straight assembly threaded plug 2Pin



料号:WHD271002



M17 Female 弯角装配插头　8Pin

Angled assembly plug 8Pin



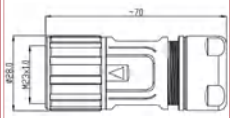
料号:WHD271003

M23KP Female 直式装配螺纹插头　母胶芯

Straight assembly threaded plugs female rubber core



料号:WHKP***F2500GK12M23

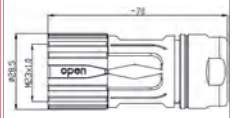


M23KS Female 直式装配快锁插头　母胶芯

Straight assembly quick lock plug female rubber core



料号:WHKS***F2510GK12M23



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