

## Max-M12 Series





## ABOUT US

# Amphenol

### Amphenol Industrial Operations

Amphenol Industrial Operations (AIO), a division of the Amphenol Corporation, is a prominent manufacturer of cylindrical connectors known around the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Manufacturing connectors since 1932, we take pride that Amphenol Industrial Operations is the undisputed leader in interconnect systems for harsh environment applications. Innovations like our RADSOK® contact technology can provide roughly 50% more current through the same size pin. Connectors utilizing this RADSOK® technology will outperform similar products in the market hands down.

The Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet. This complex houses over 1000+employees incorporating state-of-the-art manufacturing technologies. The facility is both ISO9001 certified and qualified to MIL-STD-790 requirements.



Sidney Factory

## Amphenol

is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures and markets electrical, electronic and fiber optic connectors, coaxial and flat-ribbon cable, and interconnect systems. Amphenol has long been the accepted leader in providing quality connectors and interconnect systems to the Industrial, Military and Telecommunication markets.



Zhuhai Factory 1

With industry leading engineering, design and manufacturing expertise, Amphenol Technology (Zhuhai) Co., Ltd. has earned more than 30 utility patents on its innovative interconnects. Many of the products produced have been certified by independent standards including UL, IEC/TUV, ATEX, IECEx and MA. The facility is also certified to ISO 9001, ISO 14001 and IATF 16949.

### Amphenol Technology (Zhuhai) Co., Ltd.

Established in 2007, Amphenol Technology (Zhuhai) Co., Ltd. is a manufacturing facility for Amphenol Industrial Operations, which serves a number of industrial markets, included but not limited to Factory Automation, Transportation, Heavy Equipment, Alternative Energy, Energy Storage, Server/Data Comm and Power Distribution.

Amphenol Technology (Zhuhai) Co., Ltd. covers an area of 28470m<sup>2</sup> and is equipped with CNC, plating, injection molding and assembly workshops. This plant specializes in the design and manufacturing of industrial connectors featuring high power, high density, medium to high voltage electrical properties, and harsh environment applications.



Zhuhai Factory 2

# Max-M12 Series

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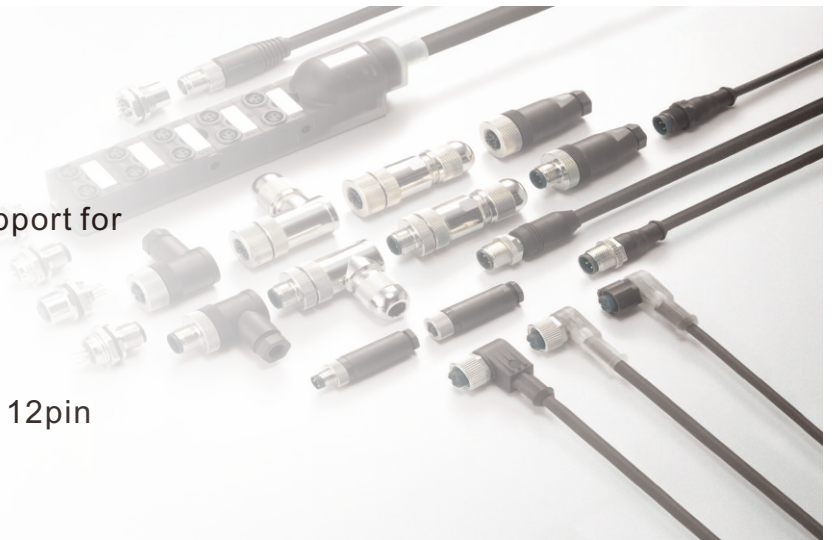
## Product Introduction

Amphenol Industrial Operations offers standard Max-M12 series (A/B/D/X Code) which are based on IEC 61076-2-101 & SAE J2839. In order to save assembly time, we also provide several different mounting options (front or back lock/flange) and wire termination styles (Solder/crimp/screw).

To ensure high performance in harsh environments, Amphenol has plating solutions which can meet salt spray protection from 48 to 240 hours. Featuring resistance to High Vibration/Mechanical Shock with an IP67 rating makes Max-M12 a perfect solution for signal & data transmission.

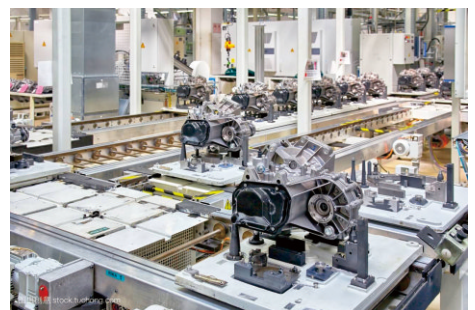
## Features & Benefits

- X coding High Speed connector with support for 10Gb/s data transmission
- Quick and secure wire termination
- Wide range of pin positions from 3pin to 12pin
- Alternative mounting styles
- Ingress Protection rating of IP67
- Vibration/Shock resistance
- EMI shielding



## Market & Application

- Rail Mass Transit
- Industrial Automation
- Robotics



# Max-M12 series

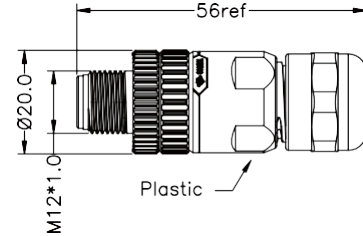
## Screw Termination Max-M12

### Male Assembly Connector

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

4pins

5pins

8pins

12pins

5pins

4pins

A

A

A

A

A

B

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12
Termination/接线方式	Screw Clamp				Solder
Wire Gauge/线规	0.14/0.25/0.34/0.55mm <sup>2</sup> /(26/24/22/20AWG)				
Cable OD/线材直径	3~8mm				
Operating Temperature/工作温度	-25°C~+85°C				
Mechanical Operation/插拔次数	>500 mating cycles				
Rated Voltage/额定电压	250V		60V	30V	
Rated Current(40°C)/额定电流	4A			2A	1.5A
Ingress Progress/防护等级	IP67/IP68				
Contact Resistance/接触阻抗	<10mΩ				
Insulation Resistance/绝缘阻抗	≥100mΩ				
Pin Contact/插针材料	CuZn				
Socket Contact/插孔材料	CuSn				
Contact Plating/针孔镀层材料	Au				

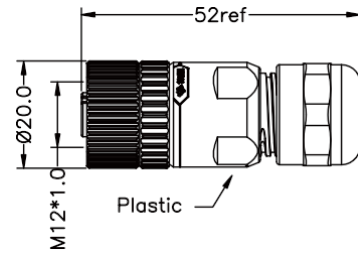
## Screw Termination Max-M12

### Female Assembly Connector

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



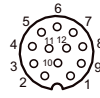
8pins

A



12pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12
Termination/接线方式	Screw Clamp				Solder
Wire Gauge/线规	0.14/0.25/0.34/0.55mm <sup>2</sup> /(26/24/22/20AWG)				
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Contact Resistance/接触阻抗	< 10mΩ				
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Contact Plating/针孔镀层材料	Au				

# Max-M12 Series

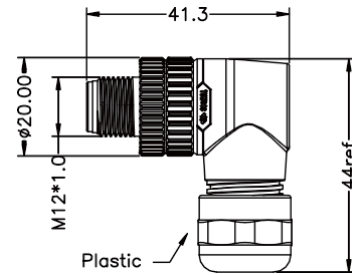
## Screw Termination Max-M12

### Male Assembly Connector

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12
Termination/接线方式	Screw Clamp				Solder
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)				
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Ingress Progress/防护等级	IP67/IP68				
Contact Resistance/接触阻抗	< 10mΩ				
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Pin Contact/插针材料	CuZn				
Socket Contact/插孔材料	CuSn				
Contact Plating/针孔镀层材料	Au				



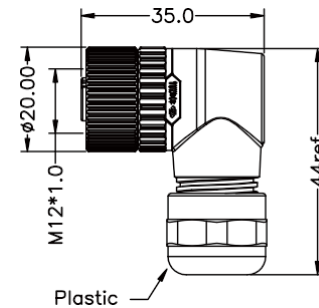
## Screw Termination Max-M12

### Female Assembly Connector

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



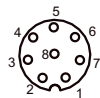
5pins

A



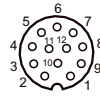
8pins

A



12pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12
Termination/接线方式	Screw Clamp				Solder
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)				
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Mechanical Operation/插拔次数	> 500 mating cycles				
Rated Voltage/额定电压	250V		60V	30V	
Rated Current(40°C)/额定电流	4A			2A	1.5A
Ingress Progress/防护等级	IP67/IP68				
Contact Resistance/接触阻抗	< 10mΩ				
Insulation Resistance/绝缘阻抗	≥100mΩ				
Pin Contact/插针材料	CuZn				
Socket Contact/插孔材料	CuSn				
Contact Plating/针孔镀层材料	Au				

# Max-M12 series

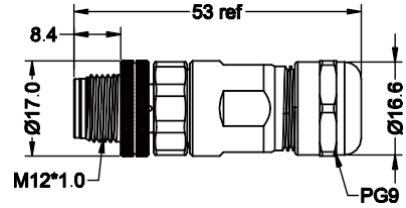
## X Coding High Speed Max-M12

### Male Assembly Connector

Product Image (PG9 with shield)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

8pins

X



### Specifications/技术参数

Number of Contacts/芯数	8
Termination/接线方式	Solder
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)
Cable OD/线材直径	6~8mm
Operating Temperature/工作温度	-40°C~+85°C
Mechanical Operation/插拔次数	> 500 mating cycles
Rated Voltage/额定电压	60V
Rated Current(40°C)/额定电流	0.5A
Ingress Progress/防护等级	IP67/IP68
Contact Resistance/接触阻抗	≤5mΩ
Insulation Resistance/绝缘阻抗	≥100mΩ
Pin Contact/插针材料	CuZn
Socket Contact/插孔材料	CuSn
Contact Plating/针孔镀层材料	Au

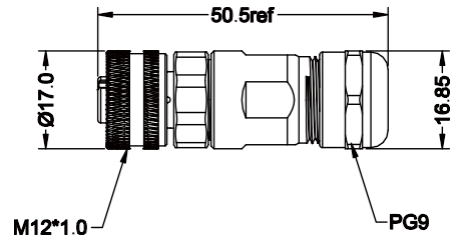
## X Coding High Speed Max-M12

### Female Assembly Connector

Product Image (PG9 with shield)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

8pins

X



### Specifications/技术参数

Number of Contacts/芯数	8
Termination/接线方式	Solder
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)
Cable OD/线材直径	6~8mm
Operating Temperature/工作温度	-40°C~+85°C
Mechanical Operation/插拔次数	> 500 mating cycles
Rated Voltage/额定电压	60V
Rated Current(40°C)/额定电流	0.5A
Ingress Progress/防护等级	IP67/IP68
Contact Resistance/接触阻抗	≤5mΩ
Insulation Resistance/绝缘阻抗	≥100mΩ
Pin Contact/插针材料	CuZn
Socket Contact/插孔材料	CuSn
Contact Plating/针孔镀层材料	Au

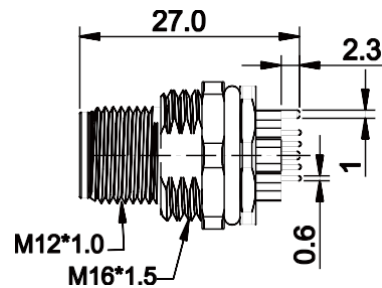
## Standard Solder Max-M12

### Male Panel Connector

Product Image (M16\*1.5 front mount DIP)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

8pins

X



### Specifications/技术参数

Number of Contacts/芯数	8
Termination/接线方式	PCB
Wire Gauge/线规	—
Operating Temperature/工作温度	-40°C~+85°C
Mechanical Operation/插拔次数	> 500 mating cycles
Rated Voltage/额定电压	60V
Rated Current (40°C)/额定电流	0.5A
Ingress Progress/防护等级	IP67/IP68
Contact Resistance/接触阻抗	≤5mΩ
Insulation Resistance/绝缘阻抗	≥100mΩ
Pin Contact/插针材料	CuZn
Socket Contact/插孔材料	CuSn
Contact Plating/针孔镀层材料	Au

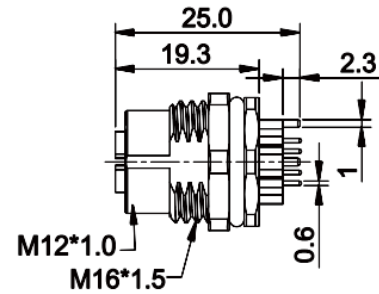
## Standard Solder Max-M12

### Female Panel Connector

Product Image(M16\*1.5 front mount DIP)



Scale Diagram



Contact Layouts/针孔排布(Front View/前视图)

8pins

X



Specifications/技术参数

Number of Contacts/芯数	8
Termination/接线方式	PCB
Wire Gauge/线规	—
Operating Temperature/工作温度	-40 °C~+85 °C
Mechanical Operation/插拔次数	> 500 mating cycles
Rated Voltage/额定电压	60V
Rated Current(40°C)/额定电流	0.5A
Ingress Progress/防护等级	IP67/IP68
Contact Resistance/接触阻抗	≤5mΩ
Insulation Resistance/绝缘阻抗	≥100mΩ
Pin Contact/插针材料	CuZn
Socket Contact/插孔材料	CuSn
Contact Plating/针孔镀层材料	Au

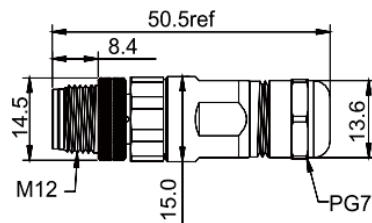
## Standard Solder Max-M12

### Male Assembly Connector

Product Image (PG7with shield)



Scale Diagram



### Contact Layouts 针孔排布 (Front View/前视图)

3pins

A



4pins

A



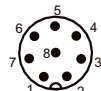
5pins

A



8pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)					
Cable OD/线材直径	4~6mm					
Operating Temperature/工作温度	-25 °C ~ +85 °C					
Mechanical Operation/插拔次数	> 500 mating cycles					
Rated Voltage/额定电压	250V		60V		30V	
Rated Current(40°C)/额定电流	4A			2A		1.5A
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥ 100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

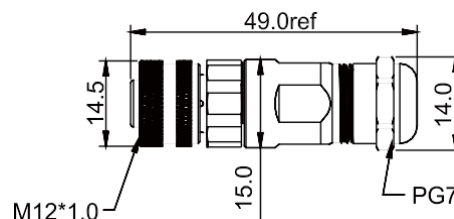
## Standard Solder Max-M12

### Female Assembly Connector

Product Image (PG7 with shield)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)					
Cable OD/线材直径	4~6mm					
Operating Temperature/工作温度	-25°C~+85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
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Rated Current (40°C)/额定电流	4A			2A		1.5A
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

# Max-M12 Series

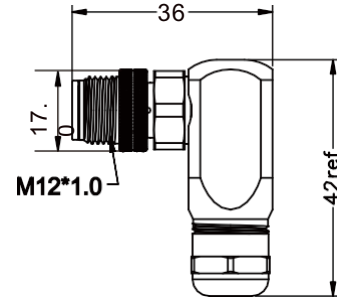
## Standard Solder Max-M12

### Male Assembly Connector (90°)

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

4pins

A



5pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	4	5	12	17
Termination/接线方式	Solder			
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)			
Cable OD/线材直径	4~6mm			
Operating Temperature/工作温度	-25°C~+85°C			
Mechanical Operation/插拔次数	> 500 mating cycles			
Rated Voltage/额定电压	250V	60V	30V	
Rated Current(40°C)/额定电流	4A		1.5A	
Ingress Progress/防护等级	IP67/IP68			
Contact Resistance/接触阻抗	< 10mΩ			
Insulation Resistance/绝缘阻抗	≥100mΩ			
Pin Contact/插针材料	CuZn			
Socket Contact/插孔材料	CuSn			
Contact Plating/针孔镀层材料	Au			



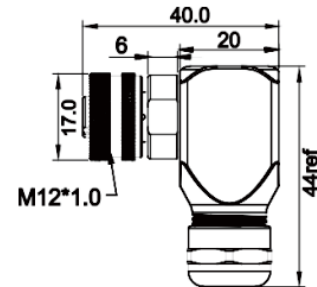
## Standard Solder Max-M12

### Female Assembly Connector (90°)

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

4pins

A



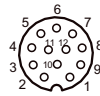
5pins

A



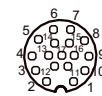
12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	4	5	12	17
Termination/接线方式	Solder			
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)			
Cable OD/线材直径	4~6mm			
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Rated Current(40°C)/额定电流	4A		1.5A	
Ingress Progress/防护等级	IP67/IP68			
Contact Resistance/接触电阻	< 10mΩ			
Insulation Resistance/绝缘电阻	≥100mΩ			
Pin Contact/插针材料	CuZn			
Socket Contact/插孔材料	CuSn			
Contact Plating/针孔镀层材料	Au			

# Max-M12 Series

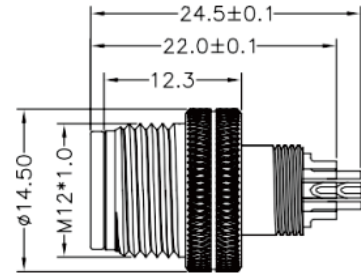
## Standard Solder Max-M12

### Male Connector for Molding

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)					
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Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥ 100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

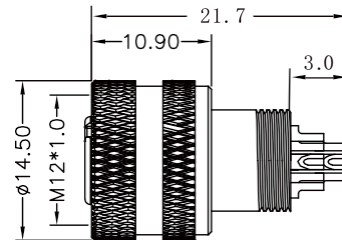
## Standard Solder Max-M12

### Female Connector for Molding

Product Image



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



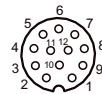
8pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)					
Operating Temperature/工作温度	-25°C~+85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
Rated Voltage/额定电压	250V		60V		30V	
Rated Current (40°C)/额定电流	4A			2A		1.5A
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

# Max-M12 series

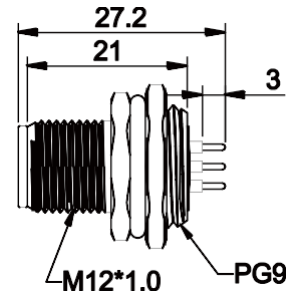
## Coupling/Flange Max-M12

### Male Panel Connector

Product Image (PG9 rear mount DIP)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	PCB					
Wire Gauge/线规	—					
Operating Temperature/工作温度	-25°C~+85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
Rated Voltage/额定电压	250V		60V		30V	
Rated Current (40°C)/额定电流	4A			2A	1.5A	
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

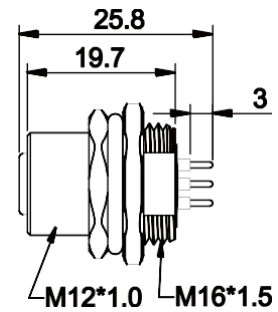
## Coupling/Flange Max-M12

### Female Panel Connector

Product Image (M16\*1.5 rear mount DIP)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



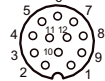
8pins

A



12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	PCB					
Wire Gauge/线规	—					
Operating Temperature/工作温度	-25°C~+85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
Rated Voltage/额定电压	250V		60V		30V	
Rated Current (40°C)/额定电流	4A			2A		1.5A
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

# Max-M12 series

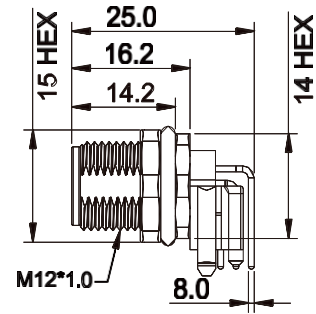
## Coupling/Flange Max-M12

### Male Panel Connector

Product Image (M12\*1.0 90° front mount DIP)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



8pins

A



12pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12
Termination/接线方式	PCB				
Wire Gauge/线规	—				
Operating Temperature/工作温度	-25°C~+85°C				
Mechanical Operation/插拔次数	> 500 mating cycles				
Rated Voltage/额定电压	250V		60V	30V	
Rated Current (40°C)/额定电流	4A			2A	1.5A
Ingress Progress /防护等级	IP67/IP68				
Contact Resistance/接触阻抗	< 10mΩ				
Insulation Resistance/绝缘阻抗	≥ 100mΩ				
Pin Contact/插针材料	CuZn				
Socket Contact/插孔材料	CuSn				
Contact Plating/针孔镀层材料	Au				

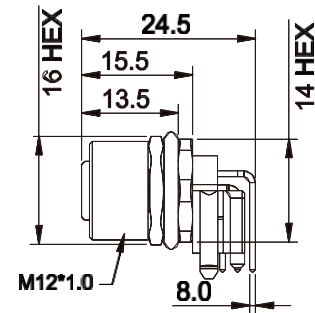
## Coupling/Flange Max-M12

### Male Panel Connector

Product Image(M12\*1.0 90° front mount DIP)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



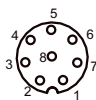
5pins

A



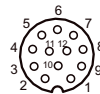
8pins

A



12pins

A



5pins

B



4pins

D



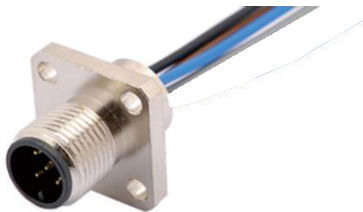
### Specifications/技术参数

Number of contacts/芯数	3	4	5	8	12
Termination/接线方式	PCB				
Wire Gauge/线规	—				
Operating Temperature/工作温度	-25°C~+85°C				
Mechanical Operation/插拔次数	> 500 mating cycles				
Rated Voltage/额定电压	250V		60V	30V	
Rated Current (40°C)/额定电流	4A			2A	1.5A
Ingress Progress/防护等级	IP67/IP68				
Contact Resistance/接触阻抗	< 10mΩ				
Insulation Resistance/绝缘阻抗	≥ 100mΩ				
Pin Contact/插针材料	CuZn				
Socket Contact/插孔材料	CuSn				
Contact Plating/针孔镀层材料	Au				

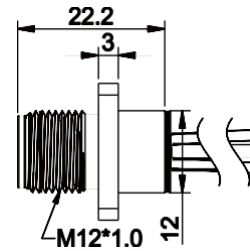
## Coupling/Flange Max-M12

### Male Panel Connector

Product Image (flanged fixed)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



5pins

A



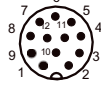
8pins

A



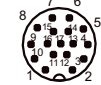
12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)					
Operating Temperature/工作温度	-25°C~+85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
Rated Voltage/额定电压	250V		60V		30V	
Rated Current (40°C)/额定电流	4A			2A	1.5A	
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					



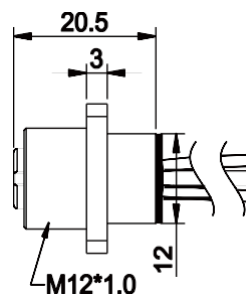
## Coupling/Flange Max-M12

### Female Panel Connector

Product Image (flanged fixed)



Scale Diagram



### Contact Layouts/针孔排布(Front View/前视图)

3pins

A



4pins

A



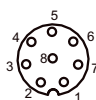
5pins

A



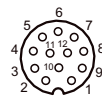
8pins

A



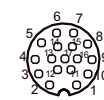
12pins

A



17pins

A



5pins

B



4pins

D



### Specifications/技术参数

Number of Contacts/芯数	3	4	5	8	12	17
Termination/接线方式	Solder					
Wire Gauge/线规	0.14/0.25/0.34/0.55mm <sup>2</sup> /(26/24/22/20AWG)					
Operating Temperature/工作温度	-25°C ~ +85°C					
Mechanical Operation/插拔次数	> 500 mating cycles					
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Rated Current (40°C)/额定电流	4A			2A		1.5A
Ingress Progress/防护等级	IP67/IP68					
Contact Resistance/接触阻抗	< 10mΩ					
Insulation Resistance/绝缘阻抗	≥ 100mΩ					
Pin Contact/插针材料	CuZn					
Socket Contact/插孔材料	CuSn					
Contact Plating/针孔镀层材料	Au					

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