



Introduction to circular connector









roduct introduction

Product Classification Characteristic

Industry and Application

Industry an

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Introduction to circular connector product

DEGSON has invested in the development of circular connectors since 2016, Now we have launched three series products of circular connectors M5, M8 and M12 in line with IEC-61076 standard. There are a total of thousands of standard models, including assembly, socket, molding cable products.

It is suitable for all kinds of equipment connection in industrial environment to realize different functions such as signal transmission, power supply and data transmission, and to meet the requirements of waterproof and vibration resistance for the connection between equipment.

Switched Cabiet

IP67/IP68/IP69K



Pin



Socket

Connecting system: interconnection, conversion, conduction

IP67/IP68/IP69K







Pin





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Circular connectors product categories

Standard Series (M Series Design Standard IEC 61076-2 Test Standard IEC 61984)

	Panel type	Molding type	Field assembly type
M5 (Specification of mutual thread M5*0.5)			/
M8 (Specification of mutual thread M8*1.0)			
M12 (Specification of mutual thread M12*1.0)			





Product introduction



Performance parameter

Series	Coded	3PIN	4PIN	5PIN	6PIN	8PIN	10PIN	12PIN	17PIN
M5 A-Coded		1A/60V	1A/60V	1	1	1	1	1	1
M8 A-Coded		3A/60V	3A/60V	/	1.5A/30V	1.5A/30V	1	/	1
M8 B-Coded		/	1	3A/30V	1	1	1	1	1
M12 A-Coded	30 04	4A/250V	4A/250V	4A/60V	2A/30V	2A/30V	1.5A/30V	1.5A/30V	1.5A/30V
M12 B-Coded	2	/	1	4A/60V	1	1	1	1	1
M12 D-Coded	20 01	/	4A/250V	1	1	1	1	1	1
M12 X-Coded		/	1	1	1	0.5A/48V	1	1	1
M12 S-Coded	190°53	12A/630V	12A/630V	1	1	/	1	1	1
M12 T-Coded		12A/63V	12A/63V	1	1	1	1	1	1

















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Coded

> M5 Coded





A-coded

M8 Coded





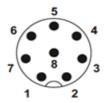






B-coded

> M12 Coded



A-Coded : Sensor /actuator



A-coded

B-Coded: INTERBUS/PROFIBUS



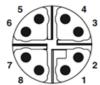
D-Coded : Ethernet/PROFINET



S-Coded: 3+PE AC



T-Coded: 4Pin DC



X-Coded: 10G Ethernet

















Product introduction

Product Classification Characteristics and quality

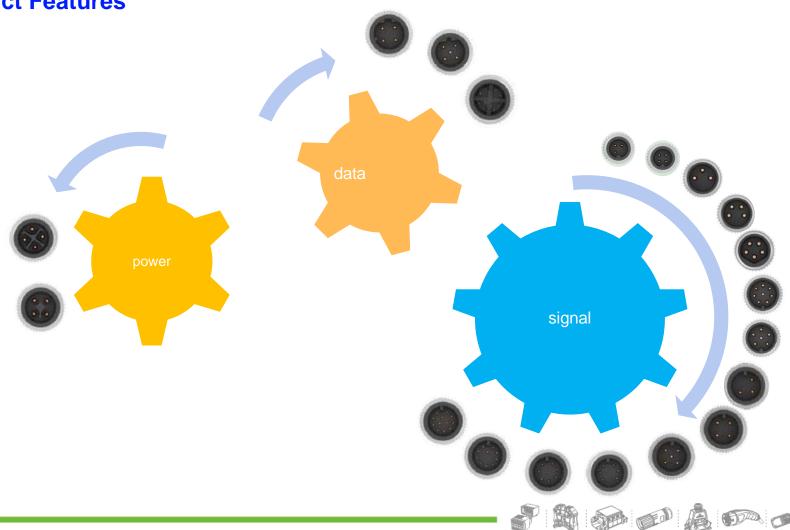
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Product Features







level of protection

IP (Ingress Protection) Definition of protection level (DIN EN 60529-1)

IP69

Prevent	Sundries	or	dust	entry	and	contac	t

	Prevention contact	Prevention sundries intrusion
0	No protection	No protection
1	Body or other area (hand)	Larger sundries (> 50mm)
2	Finger	Middle sundries (> 12mm)
	Tool and wire (>2.5mm)	Small sundries (> 2.5mm)
4	Tool and wire (>2.5mm)	Granular (> 1.2mm)
5	Prevention contact totally	Dust stacking
6	Prevention contact totally	Dust intrusion
7		
8		

Prevent water intrusion

0	No protection
1	prevent water vertical intrusion
2	Prevents the effects of water drops falling vertically
3	Prevent the impact of 60° deviation from the vertical direction
4	Prevent water droplets from splashing in any direction
_	
5	Prevent water column (10l/min)
6	Prevent water column (10l/min) Prevent strong water column (100l/min)
6	Prevent strong water column (100l/min)





产品简介

产品分类

特征与品

_了业及应用

冼型要素

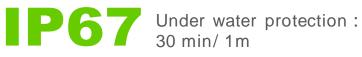
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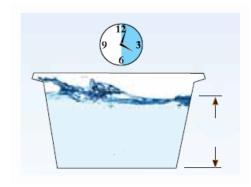




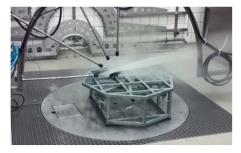
M series IP67/68



Under water protection: (1m; 24 h) > IP67











Product introduction

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Product characteristics and quality of circular connectors

- According to IEC 61076 standard, perfectly compatible with international brands
- Waterproof grade up to IP68
- Flexible wiring, easy insertion, reliable connection
- Suitable for harsh working conditions
- It can meet different certification requirements
- ► Provide customized services and supporting solutions















Product introduction

Product Classification Characteristic

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Main industries and applications of circular connector products



Applications



Servo drive





Small servo motor





M12 Series



Products: M12 A Code Function: Signal control

and power supply

Features: Waterproof and

shock resistant



















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video surveillance





M12 Series



Products: M12 D Code

Function: signal transmission Features: Waterproof and anti-

interference





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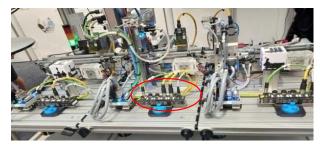


Industrial automation





Industrial automation





M Series



Products: M12 series, M8 distribution box Function: Automatic production line and related control system for signal control Features: Waterproof and shock resistant





Product introduction Product Classification Characteristics and quality





Industrial automation





Encoder



sensor





M Series



Product: M12 A Code

Function: Signal transmission Features: Waterproof, anti-

interference





Industry and Application Competitors Contact Information





Outdoor lighting





Street lamp





M12 Series



产品: M12 S CODE

功能: 电流传输

特点: 高电流, 防水





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Round connector product selection elements

▲ Technology selection

- •Core/Electrical: Select from electrical requirements
- •Functional application: select from the actual application environment
- •Product structure: from the structure of space, customer on-site wiring requirements to select

► Being shown a picture and asked to identify the object

•Identify the product model from the picture or the real thing





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► Technology selection

(1). Technology selection—Core number, electrical selection guidance

A-coded	3 94	3 4	2	2 • 1 3 • •7 4 • 6	2 • • 1 3 • 8 • • 7 4 • • 5	3 • • • 9 4 • 10 • 8 5 • • 6 • 7	3 10 0 1 3 0 11 12 0 9 4 0 0 0 8 5 0 0 7	3 12 11 10 4 13 17 16 9 5 14 15 8 6 7
B-coded	/	/	2	/	/	/	/	/
D-coded	/	30 04	/	/	/	/	/	/
Number of Pins	3	4	5	6	8	10	12	17
Rated current	4A 2A 1.5							
Rated voltage	250V 60V 30V							
Wire range	Different types of products have different cable specifications, please refer to the catalogue or product drawings for details							



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(2). Technology selection—Function application selection guidance

- a. A, B-Coded
 Mainly used in sensor, brake wiring, signal transmission, low voltage power supply, there are two kinds of shielded and non-shielded, current less than 4A.
- b. D. X-Coded
 It is mainly applied to industrial Ethernet with higher protection level, corresponding to the requirements of RJ45 connector. D-coded transmission rate is 100M Ethernet data transmission. X-Coded Transfer Rate 10GB Ethernet Data Transfer.
- c. S_x T-Coded

 Mainly used in current transmission, the maximum current up to 12A.











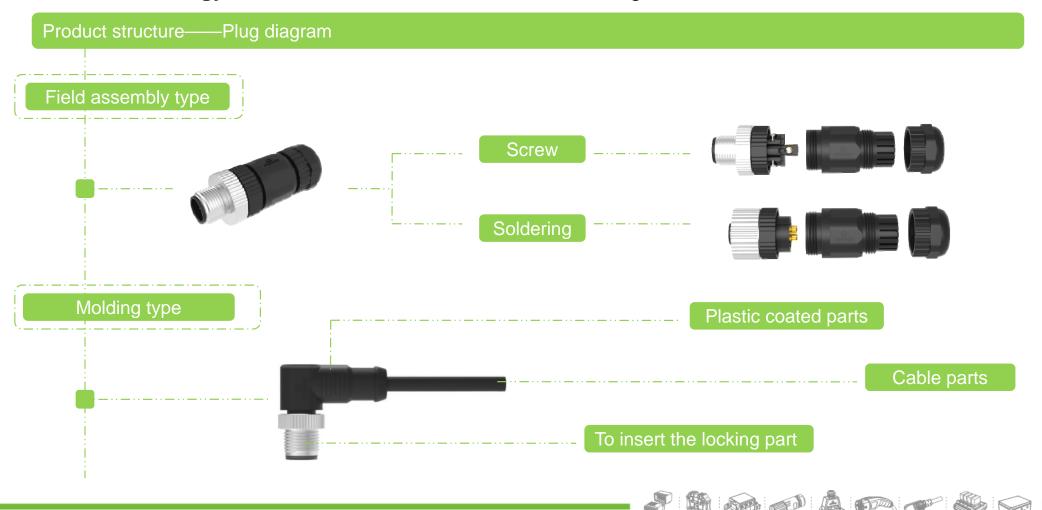
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(3). Technology selection——Product structure selection guidance





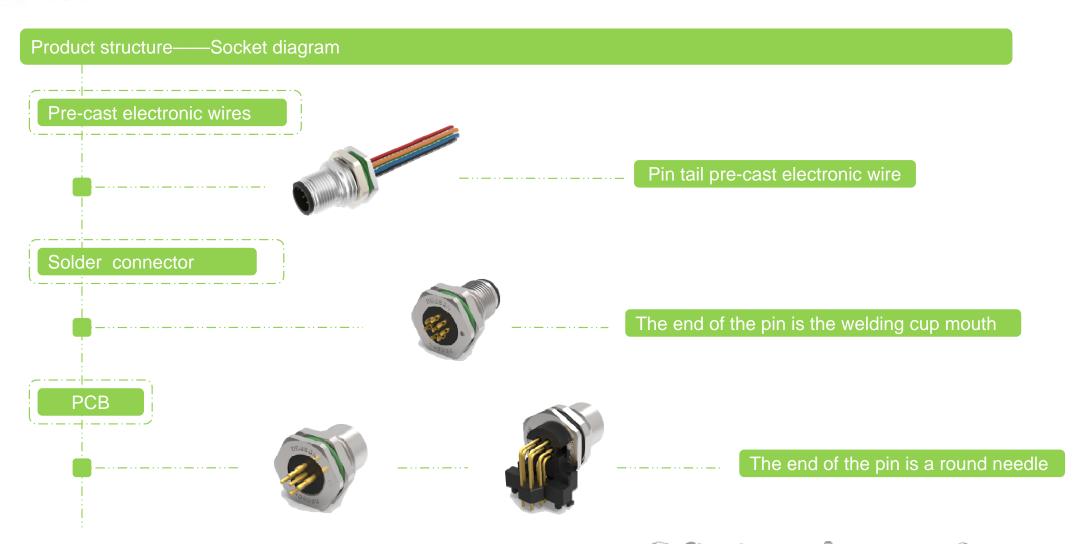
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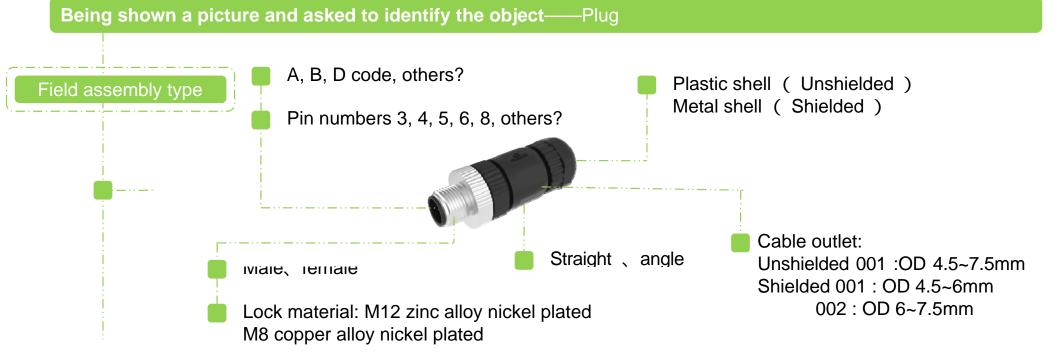


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Being shown a picture and asked to identify the object (Discover the type information hidden in the physical object)

See an object or picture, how to decompose the specific model of the product from a picture?

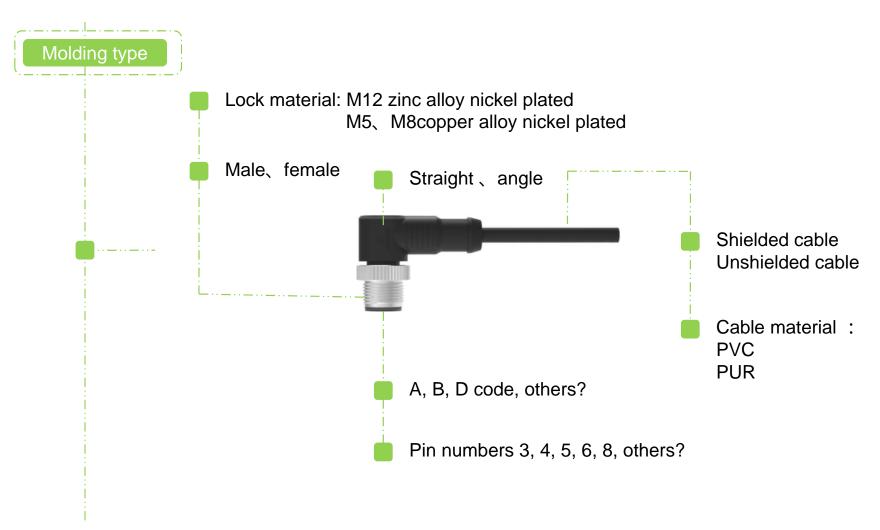
What are the components of an M12 connector? Which parts need to be confirmed to get the specific model?







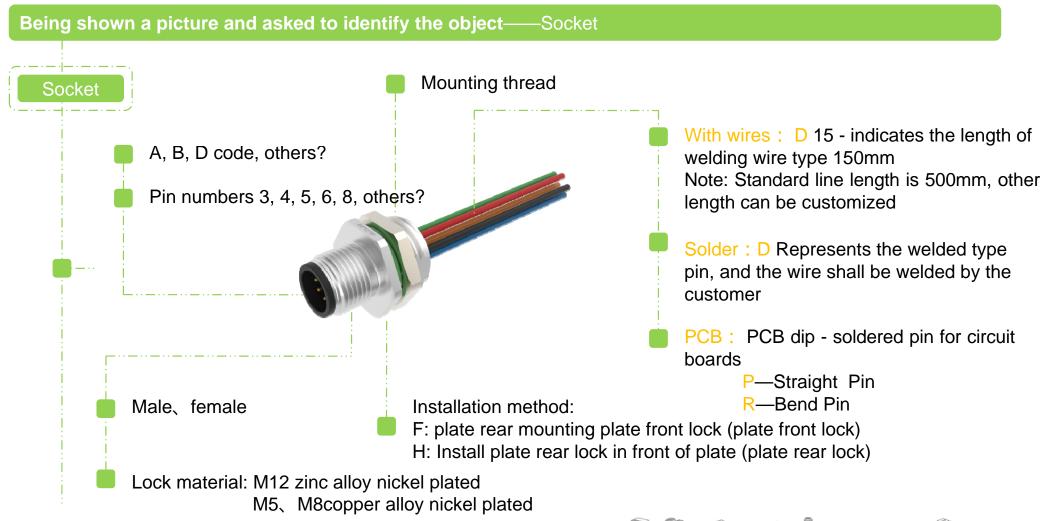
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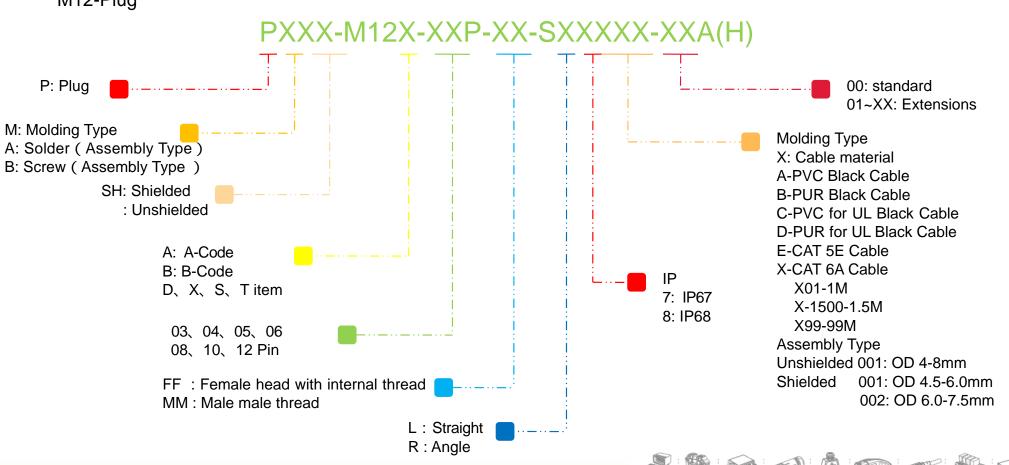
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Circular Connectors Part Number Reference

M12-Plug





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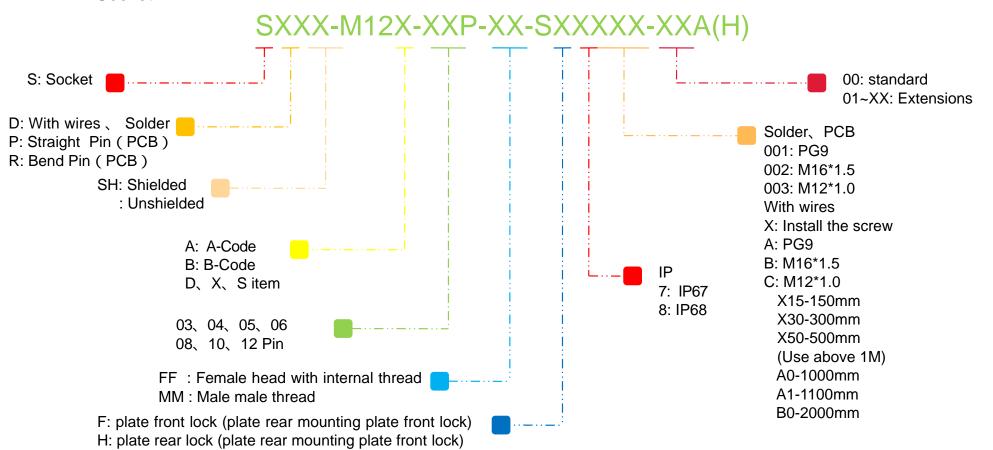
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M12-Socket







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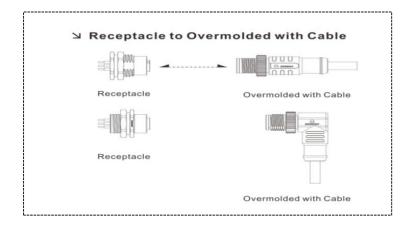
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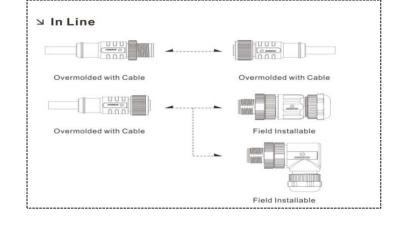
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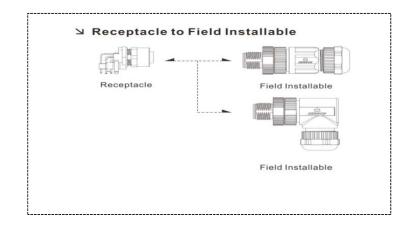
Competitors

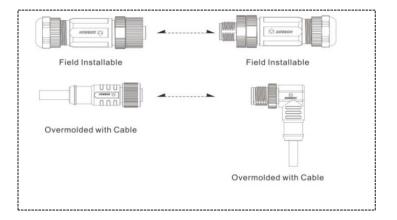
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Major competitors

Competitors	Products	DEGSON Products	Applicable Industry	Characteristic
PHŒNIX	M5-M58 full series, photovoltaic circular large current	M5,M8,M12,M23	Sensors, Industrial Automation, Motor, Motion Control	The product line is complete and the price is high
Amphenol Industrial	M series, push-pull, power waterproof connector, D- SUB,RJ45,USB,DVI waterproof, SSL	M5,M8,M12,M23	Sensors, Industrial Automation, Motor, Motion Control, LED, New Energy, Rail Transportation, Military	The price is high, the series is complete, the application industry is wide
C. LEMD.	PUSH-PULL the whole series	\	Medical, military, aerospace	Push-pull has a complete product line and a high price
binder	Snap- in,Bayonet,M5/8/9/12/18/23/25	M5,M8,M12,M23	Sensors, Industrial Automation, Motor, Motion Control, Medical	M series complete, product price and Phoenix low
CONEC TECHNOLOGY IN CONNECTORS.	M8,M12,7/8, distributor box, agricultural machinery, D-SUB, power connector, USB3.0, adapter	M5,M8,M12,M23 , 7/8 , Junction box	Automation, communications and energy technology, mechanical engineering, agricultural and medical technology, transportation and aviation industries	



















THANK YOU!