

# M12 Circular Connector

**Part Number :**

**M12-05-A-S-3-S**

Client Order no.:

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :



## Basic Information

<b>Connector Series:</b>	M12 Field Wireable Connector
<b>Connector Gender:</b>	Female
<b>Orientation:</b>	Straight
<b>Connector Coding:</b>	A Coded
<b>Number of Contacts:</b>	5 Pin

## Materials and Plating

<b>Shell Material:</b>	Brass, Plastic (for shell base)
<b>Shell Plating:</b>	Nickel-plated, None (for shell base)
<b>Insulation Material:</b>	Polyamide 66 GF25
<b>Contact Material:</b>	CuZn
<b>Contact Plating:</b>	Au

## Electrical Performance

<b>Rated Voltage:</b>	60V
<b>Rated Current:</b>	4A
<b>Insulation Resistance:</b>	$\geq 100 \text{ M}\Omega$
<b>Contact Resistance:</b>	$< 10 \text{ m}\Omega$
<b>Standard:</b>	IEC 61076-2-101
<b>Shielding Performance:</b>	Unshielded

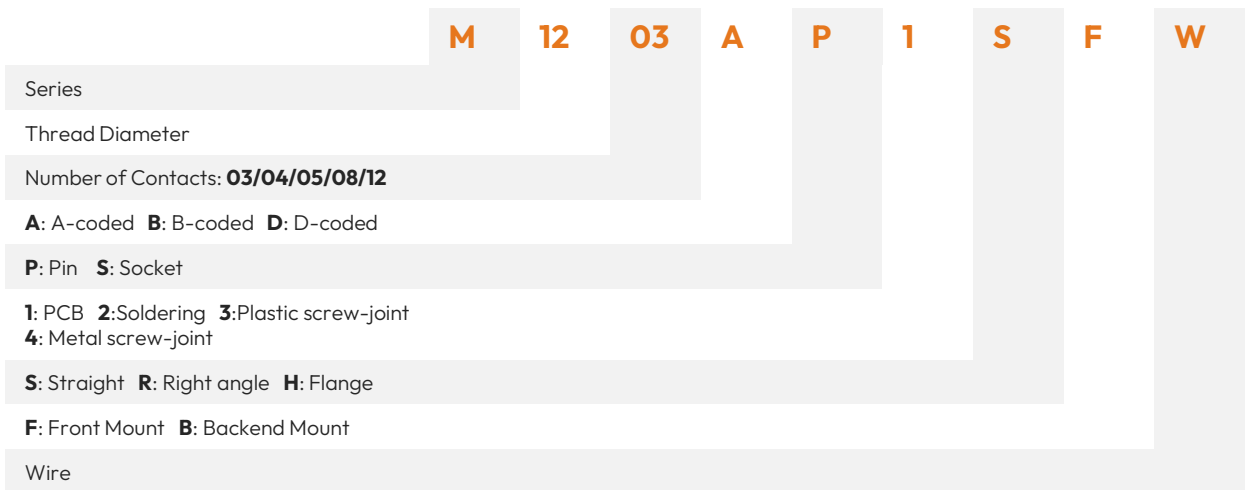
### Mechanical Performance

<b>Coupling method:</b>	Threaded Coupling
<b>Threaded Size:</b>	M12x1
<b>Mount Method</b>	Cable Type
<b>Mount Feature</b>	Not Applicable
<b>Contact Termination</b>	Screw Joint
<b>Cable Od</b>	4~6mm / 6~8mm
<b>Thread Aperture</b>	PG7 / PG9
<b>Durability</b>	≥500 cycles
<b>Wire Gauge</b>	0.14/0.25/0.34/0.5mm <sup>2</sup> /(26/24/22/20AWG)

### Environmental Performance

<b>Temperature Range:</b>	-25°C to 85°C
<b>Ip Rating:</b>	IP67

### M12 Connector Part Number Breakout



Learn more about this connector on [Metabee's M series connector catalog](#).

## M12 Connector Pinout and Wiring Diagram

Pins	A	B	C	D	X	Y	S	T	K	L	M	
2												
3												
4												
5												
6												
8												
12												
17												

芯位 Pins	线芯颜色 Wire core color
2芯(Pins)	
1	BN
2	-
3	BU

芯位 Pins	线芯颜色 Wire core color
3芯(Pins)	
1	BN
2	-
3	BU
4	BK

芯位 Pins	线芯颜色 Wire core color				
4芯A编码(4 Pins A-Code)		4芯B编码(4 Pins B-Code)		4芯D编码(4 Pins D-Code)	
1	BN	BN	BN	YE	
2	WH	WH	WH	WH	
3	BU	BU	BU	OG	
4	BK	BK	BK	BU	

芯位 Pins	线芯颜色 Wire core color		
5芯A编码(5 Pins A-Code)		5芯B编码(5 Pins B-Code)	
1	BN	BN	
2	WH	WH	
3	BU	BU	
4	BK	BK	
5	GY	GY	

芯位 Pins	线芯颜色 Wire core color
12芯(Pins)	
1	BN
2	BU
3	WH
4	GN
5	PK
6	YE
7	BK
8	GY
9	RD
10	VT
11	OG
12	LTGN

芯位 Pins	线芯颜色 Wire core color
17芯(Pins)	
1	BN
2	BU
3	WH
4	GN
5	PK
6	YE
7	BK
8	GY
9	RD
10	VT
11	OG
12	LTGN
13	LTBU
14	BKWH
15	BNWH
16	RDWH
17	BUWH

芯位 Pins	线芯颜色 Wire core color
6芯(Pins)	
1	BN
2	WH
3	BU
4	BK
5	-
6	GY
7	RD

芯位 Pins	线芯颜色 Wire core color
8芯(Pins)	
1	WH
2	BN
3	GN
4	YE
5	GY
6	PK
7	BU
8	RD

The Ultimate Guide to M12 Connector Pinout, Color Code, and Wiring Diagram – MetabeeAI (PDF Format, 33 pages, 4.5MB)

# Thanks!

Our team of passionate experts brings a wealth of experience to the table, ready to collaborate with you and unlock your full potential. By joining forces, we can create innovative solutions and achieve remarkable things.



## CONTACT US

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**Phone:** +86 159 2624 1606

**E-mail:** [sales@metabeeai.com](mailto:sales@metabeeai.com)

**Web:** [metabeeai.com](http://metabeeai.com) & [metabee.com](http://metabee.com)

**Address:** Room 708, 7th Floor, Building 2, No. 489, Guanghuadong Third Road,  
Qinyang District, Chengdu, Sichuan, China