

M12 Circular Connector

Part Number:

M12-05-B-S-3-S

Client Order no.: Item no.:

Order no.: Consignment no.:

Offer no.: Project:

Remarks:



Basic Information

Connector Series: M12 Field Wireable Connector

Connector Gender: Female

Orientation: Straight

Connector Coding: B Coded

Number of Contacts: 5 Pin

Materials and Plating

Shell Material: Brass, Plastic (for shell base)

Shell Plating: Nickel-plated, None (for shell base)

Insulation Material: Polyamide 66 GF25

Contact Material: CuSn

Contact Plating: Au

Electrical Performance

Rated Voltage: 60V

Rated Current: 4A

Insulation Resistance: \geqslant 100 M Ω

Contact Resistance: $< 10 \text{ m}\Omega$

Standard: IEC 61076-2-101

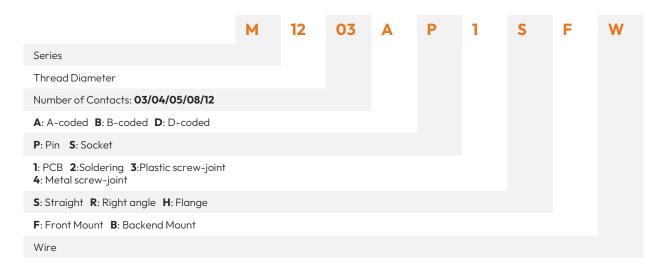
Shielding Performance: Unshielded

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Mechanical Performance		
Coupling method:	Threaded Coupling	
Threaded Size:	M12x1	
Mount Method	Cable Type	
Mount Feature	Not Applicable	
Contact Termination	Screw Joint	
Cable Od	4~6mm / 6~8mm	
Thread Aperture	PG7 / PG9	
Durability	≥500 cycles	
Wire Gauge	0.14/0.25/0.34/0.5mm²/(26/24/22/20AWG)	
Environmental Performance		
Temperature Range:	-25°C to 85°C	
Ip Rating:	IP67	

M12 Connector Part Number Breakout



Learn more about this connector on Metabee's M series connector catalog.

Page 2 <u>sales@metabeeai.com</u>



M12 Connector Pinout and Wiring Diagram

3 3 pe 3	PE PE PE PE 4		
3 3 PE 1 PE 2 PE 2 PE 3 PE 3	2 4 PE		
5 2 5 1 2 5 1 4 5 1 1 PE 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	PE		
6 3 2 0 1 7 8 PE 1 8 S 1 1 S 6 1 S 6 1	1 PE 5 2 4		
8 3 4 5 6 7 7 8 6 7 7 8 6 7 7			
12			
17			
芯位 线芯颜色 芯位 线芯颜色 芯位 线芯颜色 Pins Wire core color Pins Wire core color Pins Wire core color			
2芯(Pins) 3芯(Pins) 4芯A編码(4 Pins A-Code) 4芯B編码(4 Pins B-Code) 4芯			
2 - 2 - 2 WH WH	YE WH		
	OG BU		
芯位 线芯颜色 芯位 线芯颜色 Pins Wire core color Pins Wire core color Pins			
5芯A编码(5 Pins A-Code) 5芯B编码(5 Pins B-Code) 12芯(Pins)	17芯(Pins)		
1 BN BN 1 BN 1 BN 2 BU 2 BU 2 BU			
3 BU BU 3 WH 3 WH 4 GN 4 GN 4 GN 5 CV 5 C			
5 GY GY 5 PK 5 PK 芯位 线芯颜色 芯位 线芯颜色 7 BK 7 BK			
Pins Wire core color Pins Wire core color 8 GY 8 GY 6 ***(Disc) 9 **RD 9 **RD 9 **RD 9 **RD			
1 BN 1 WH 11 OG 11 OG			
2 WH 2 BN 12 LTGN 12 LTGN 13 LTBU			
4 BK 4 YE 14 BKWH 5 - 5 GY 15 BNWH 6 GY 6 PK 16 RDWH			
6 GY 7 RD 7 BU 16 RDWH 17 BUWH			

 $\underline{\text{The Ultimate Guide to M12 Connector Pinout, Color Code, and Wiring Diagram - Metabee Al (PDF Format, 33 pages, 4.5 MB)}$

Page 3 sales@metabeeai.com

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.



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