

M12 Circular Connector

Part Number :

M12-05-B-P-4-S

Client Order no.:

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :



Basic Information	
Connector Series:	M12 Field Wireable Connector
Connector Gender:	Male
Orientation:	Straight
Connector Coding:	B Coded
Number of Contacts:	5 Pin

Materials and Plating	
Shell Material:	Brass
Shell Plating:	Nickel-plated
Insulation Material:	Polyamide 66 GF25
Contact Material:	CuZn
Contact Plating:	Au

Electrical Performance	
Rated Voltage:	60V
Rated Current:	4A
Insulation Resistance:	≥100 MΩ
Contact Resistance:	< 10 mΩ
Standard:	IEC 61076-2-101
Shielding Performance:	Unshielded

Mechanical Performance	
Coupling method:	Threaded Coupling
Threaded Size:	M12x1
Mount Method	Cable Type
Mount Feature	Not Applicable
Contact Termination	Screw Joint
Cable Od	Not Applicable
Thread Aperture	Not Applicable
Durability	≥500 cycles
Wire Gauge	0.14/0.25/0.34/0.5mm ² /(26/24/22/20AWG)

Environmental Performance	
Temperature Range:	-25°C to 85°C
Ip Rating:	IP67

M12 Connector Part Number Breakout

	M	12	03	A	P	1	S	F	W
Series									
Thread Diameter									
Number of Contacts: 03/04/05/08/12									
A: A-coded B: B-coded D: D-coded									
P: Pin S: Socket									
1: PCB 2:Soldering 3:Plastic screw-joint 4: Metal screw-joint									
S: Straight R: Right angle H: Flange									
F: Front Mount B: Backend Mount									
Wire									

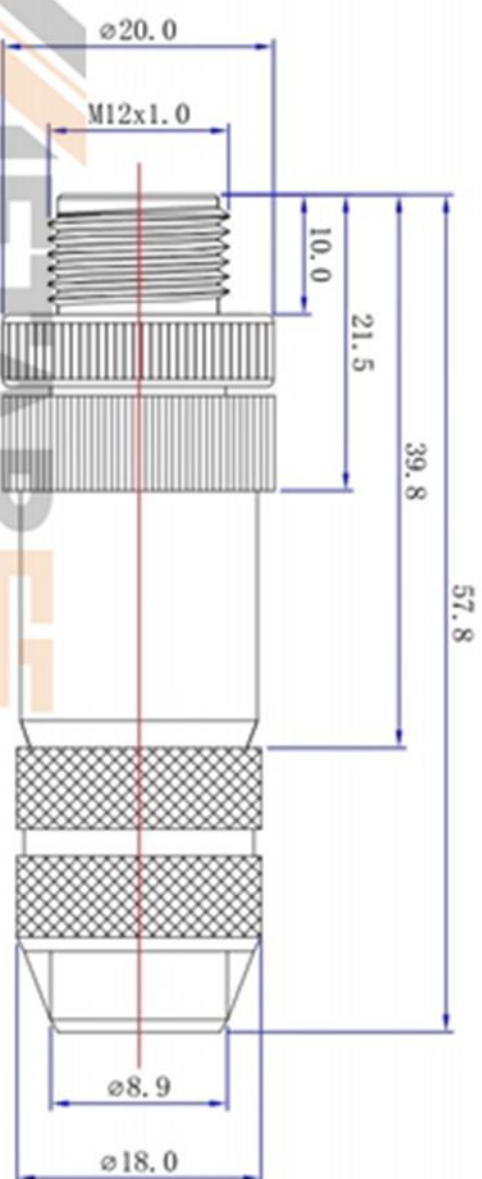
Learn more about this connector on [Metabee's M series connector catalog](#).



Product NO.		M12-05-B-P-4-S			
REV	DESCRIPTION	DRN	DATE	APPROVEN	
A	FIRST ISSUE	GAVIN	2018/05/14	JIM KING	



Pin Assignment



Technical data

General specifications

Number of pins

4

Electrical specifications

Operating voltage

U_g max. 60V

Operating current

I_g 4 A

Volume resistance

$< 3m\Omega$

Ambient conditions

$-40 \dots +85^\circ\text{C}$ ($-40 \dots 185^\circ\text{F}$)

Ambient temperature

3

Pollution Degree

3

Mechanical specifications

Degree of protection

IP67

Connection

Screw terminals for max. 0.75 mm²

Material

CuZn

Contacts

Au

Contact surface

d

Body

Zinc

Slotted nut

de-coating, nickel-plated

Cable

Zinc de-coating, nickel-plated

Shield diameter

$\varnothing 8.9 \pm 0.1$

-TOLERANCES-
UNLESS OTHERWISE
SPECIFIED



PART DESCRIPTION:



M12 8 CODE 8P1N MALE CONNECTORS

Appd: JIM KING

P/N: M12-05-B-P-4-S

Check:

Date Scale Unit Type Page

Draw: Gavin

2018.05.14 Free MM Z 1/1

UNLESS OTHERWISE SPECIFIED,
TOLERANCES FOR MILLIMETERS ARE:
0.5 - 3mm \pm 0.25mm
3 - 25mm \pm 0.25mm
25 - 125mm \pm 0.50mm

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		YE	
2	WH		WH		WH	
3	BU		BU		OG	
4	BK		BK		BU	

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

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

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

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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