



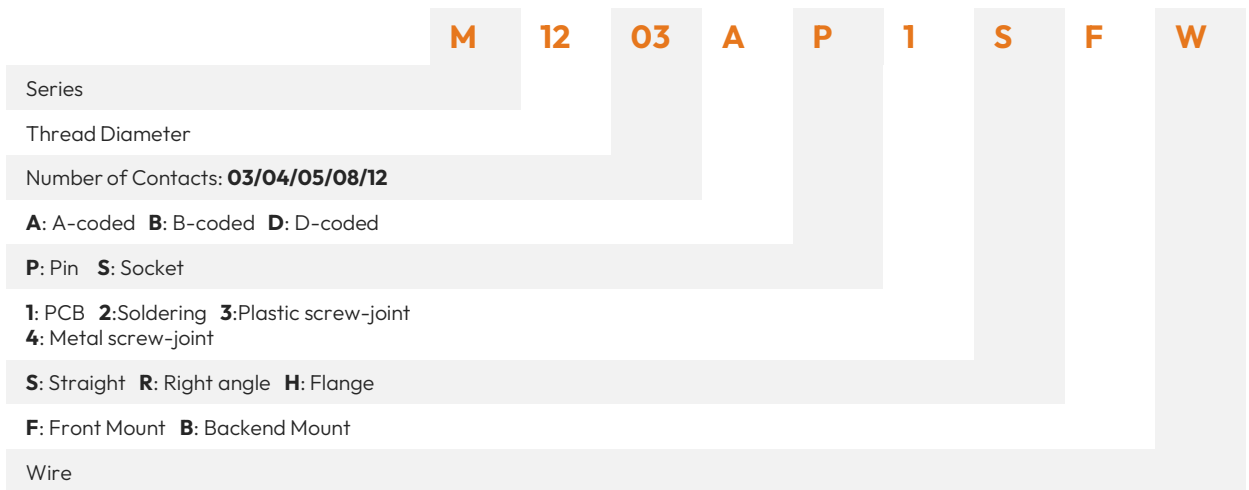
### Mechanical Performance

<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

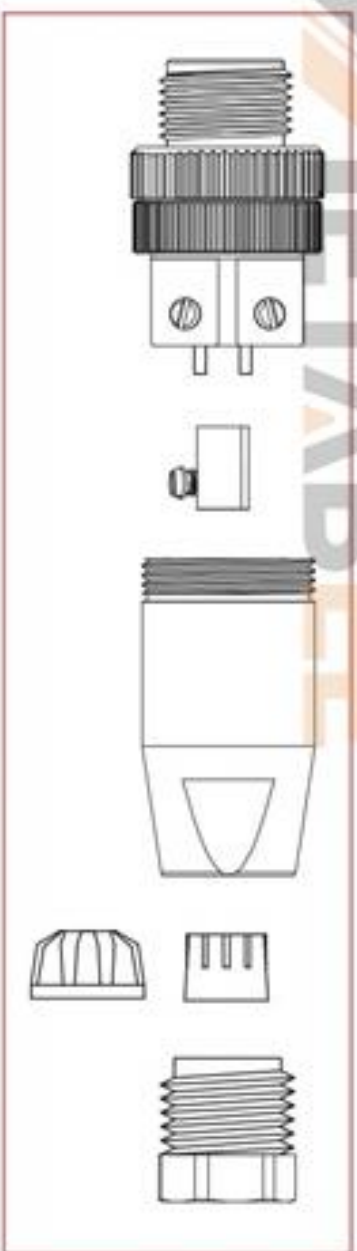
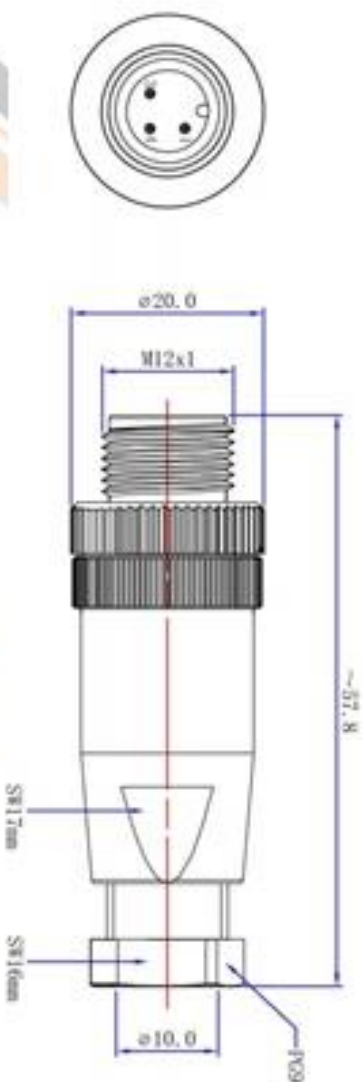
### M12 Connector Part Number Breakout



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



Product NO.		M12-03-A-P-3-S	
REV	DESCRIPTION	ISSN	DATE
A	FIRST ISSUE	GAVLN	2018/05/14
			APPROVEN
			JTL KING



PERFORMANCE

1) MECHANICAL POLARIZING METHOD: 3EN MIN., CONTACT INSERTION FORCE: 1.0N/DIN MAX., CONTACT WITHDRAWAL FORCE: 1.5N/DIN MAX., WATERPROOF: IP68 (IN WATER 1mm DEPTH, 24H)

2) ELECTRICAL CURRENT RATING: 4.0A VOLTAGE RATING: 250VDC WITHSTANDING VOLTAGE: 1000VAC rms INSULATION RESISTANCE:  $1 \times 10^9$  OHMS at 50%VDC CONTACT RESISTANCE: TO WILL BE AT INITIAL CONDITION DELTA T: 0.1S WILL BE 0.0A MAX. AFTER EVALUATION TEST BASED ON 78-5102-0151-B

3) ENVIRONMENTAL TEMPERATURE RATING: -25°C TO 85°C

NOTE FOR LOW TEMPERATURE LIMIT: EXCLUDING CABLE PERFORMANCE NO OTHER CONDITION FOR HIGH TEMPERATURE LIMIT INCLUDING TEMPERATURE RISING BY CURRENT

-TOLERANCES-  
UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS FOR MILLIMETERS ARE:  
0.3 - 3mm ± 0.2mm  
3 - 30mm ± 0.25mm  
30 - 150mm ± 0.35mm



App'd: JTL KING



Check: Gavln



Draw: Gavln

PART DESCRIPTION:

M12 3P MALE MOUNT RIGID SOLDER

P/N: M12-03-A-P-3-S

Date: 2018.05.14 Scale: Unit: Type: Page:

Draw: Gavln Date: 2018.05.14 Free: MM Z 1/1



## 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

**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