

M12 Circular Connector

Part Number :

M12-05-A-P-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:	Male
Orientation:	Straight
Connector Coding:	A 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:	CuZn
Contact Plating:	Au

Electrical Performance	
Rated Voltage:	250V
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	4~6mm / 6~8mm
Thread Aperture	PG7 / PG9
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									

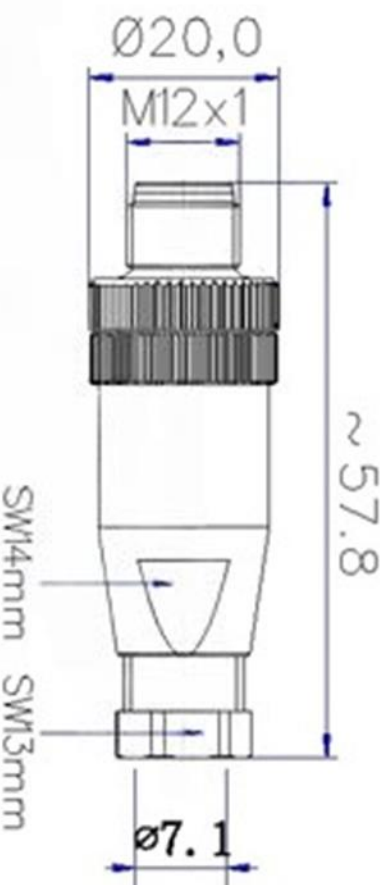
Learn more about this connector on [Metabee's M series connector catalog](#).



Product NO.

M12-05-A-P-3-S

ISSUE	DESCRIPTION	DEN	DATE	APPROVEN
First	First Issue	Carlin	2018/05/02	JTK KING



PERFORMANCE

1) MECHANICAL

POLARIZING METHOD: SEN MIN.

CONTACT INSERTION FORCE: 110N/PIN MAX.
CONTACT WITHDRAWAL FORCE: 115N/PIN MAX.

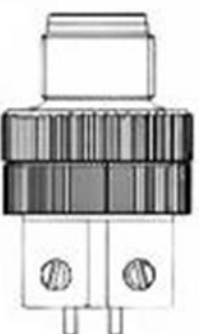
WATERPROOF: IP69 (IN WATER 1mm DEPTH, 24H)

2) ELECTRICAL

CURRENT RATING: 4.0A

VOLTAGE RATING: 250VDC

WITHSTANDING VOLTAGE: 1000VAC/75ms

INSULATION RESISTANCE: $\geq 10^9 \Omega$ @ 500VDCCONTACT RESISTANCE:
TO WITH 1.0m AT INITIAL CONDITION
DELTA R IS WITH 0.04m MAX. AFTER
EVALUATION TEST BASED ON 78-5102-0151-63) ENVIRONMENTAL
TEMPERATURE RATING: -25°C TO 85°CNOTE:
FOR LOW TEMPERATURE LIMIT,
EXCLUDING CABLE PERFORMANCE NO DEW CONDITION
FOR HIGH TEMPERATURE LIMIT,
INCLUDING TEMPERATURE RISING BY CURRENT-TOLERANCES-
UNLESS OTHERWISE
SPECIFIED

PART DESCRIPTION:

M12 MALE WIRE MOUNT FOR A CODE

Appr: JTK KING

P/N:

M12-05-A-P-3-S

Check:

Date

Scale

Unit

Type

Page

Draw:

Date

Free






































MM

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1/1

UNLESS OTHERWISE SPECIFIED
TOLERANCES FOR MILLIMETERS ARE:
0.5 - 3mm ± 0.15mm
3 - 30mm ± 0.15mm
30 - 150mm ± 0.25mm

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	

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)	
1	BN
2	WH
3	BU
4	BK
5	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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