

# M12 Circular Connector

Part Number :

**M12-05-A-P-3-R**

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:	Right Angle
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:	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	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

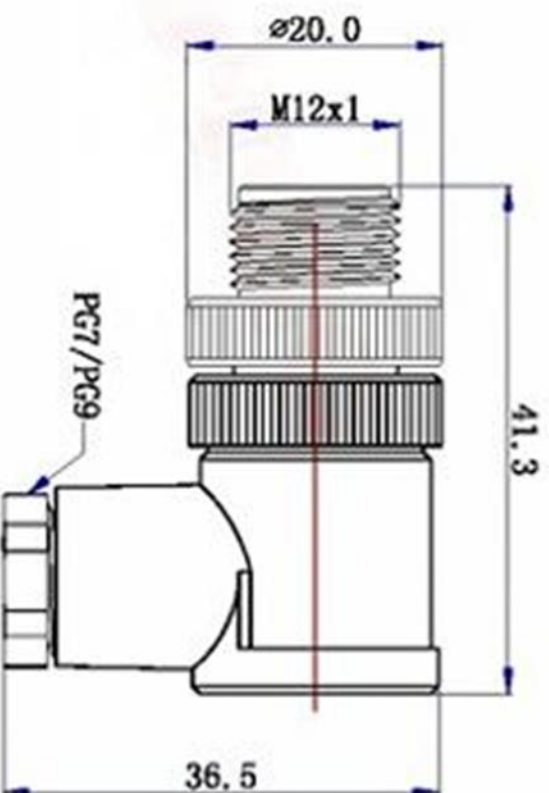
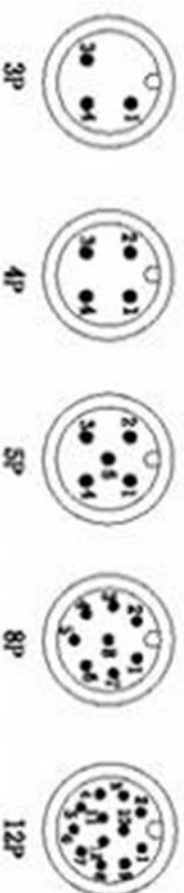
M12 Connector Part Number Breakout

	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-R			
Issue	Description	Rev	Date
First		Rev 1.0	2018/08/06
			JIM KING



## DISCUSSION

## 1) MONOMERIC POLYMERIZATION WITH A

CONTACT (INJECTION FORCE: 150N/DIN MAX.  
CONTACT #1 THORAL. FORCE: 150N/DIN MAX.

WATERPROOF LINOLEUM WATER 1000 DCP™, 2001

## 2.1 Dielectric

WILCOX, INC.  
CURRENT RATING: A, CAY, 5A

VOLTAGE RATING=200V-0.6/220V-AC/100V/20V

STANDARD VOLTAGE 100V AC rms

INSULATION RESISTANCE IN  $10^9$  OHMS AT 50°C/50%

CONTACT RESISTANCE: .....

DELTA 2 IS ONLY 1 DAY AWAY. AFTER

EVALUATION TEST BASED ON 781-5102-0151-0

## 21 ENVIRONMENTAL

TEMPERATURE RATING: -25°C TO 125°C






































NOTE \_\_\_\_\_

FOR LOW TEMPERATURES, WITH  
COLLIMINATING CAPS, THERE IS NO DEGRADATION OF CONDITION

FOR HIGH TEMPERATURES, 500-1100°C  
INCLUDING TEMPERATURE FLUCTUATION BY CURRENT

<p><b>-TOLERANCES- UNLESS OTHERWISE SPECIFIED</b></p> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS AND FRACTIONS ARE IN INCHES 0.5 - 25mm ± 0.13mm 25 - 125mm ± 0.25mm 125 - 400mm ± 0.38mm 400 - 630mm ± 0.51mm</p>			
<p><b>APPROX: JTM KING</b></p>	<p><b>PART DESCRIPTION:</b></p>	<p><b>M12 A 000E KULE CONNECTORS</b></p>	
<p><b>Check:</b></p>	<p><b>P/N:</b></p>	<p><b>M12-05-A-P-3-R</b></p>	
<p><b>Date:</b></p>	<p><b>Scale:</b></p>	<p><b>Unit:</b></p>	<p><b>Type:</b></p>
<p><b>Draw:</b></p>	<p><b>2018.08.06</b></p>	<p><b>Free</b></p>	<p><b>MM</b></p>
<p><b>Carla</b></p>	<p><b>2</b></p>	<p><b>1/1</b></p>	<p><b>Page</b></p>

**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)	
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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