

M12 Circular Connector

Part Number:

M12-04-A-S-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: | Female |
| Orientation: | Straight |
| Connector Coding: | A Coded |
| Number of Contacts: | 4 Socket |

Materials and Plating

| | |
|-----------------------------|-------------------|
| Shell Material: | Brass |
| Shell Plating: | Nickel-plated |
| Insulation Material: | Polyamide 66 GF25 |
| Contact Material: | CuSn |
| Contact Plating: | Au |

Electrical Performance

| | |
|-------------------------------|--------------------|
| Rated Voltage: | 250V |
| Rated Current: | 4A |
| Insulation Resistance: | $\geq 100 M\Omega$ |
| Contact Resistance: | $< 10 m\Omega$ |
| Standard: | IEC 61076-2-101 |
| Shielding Performance: | Unshielded |

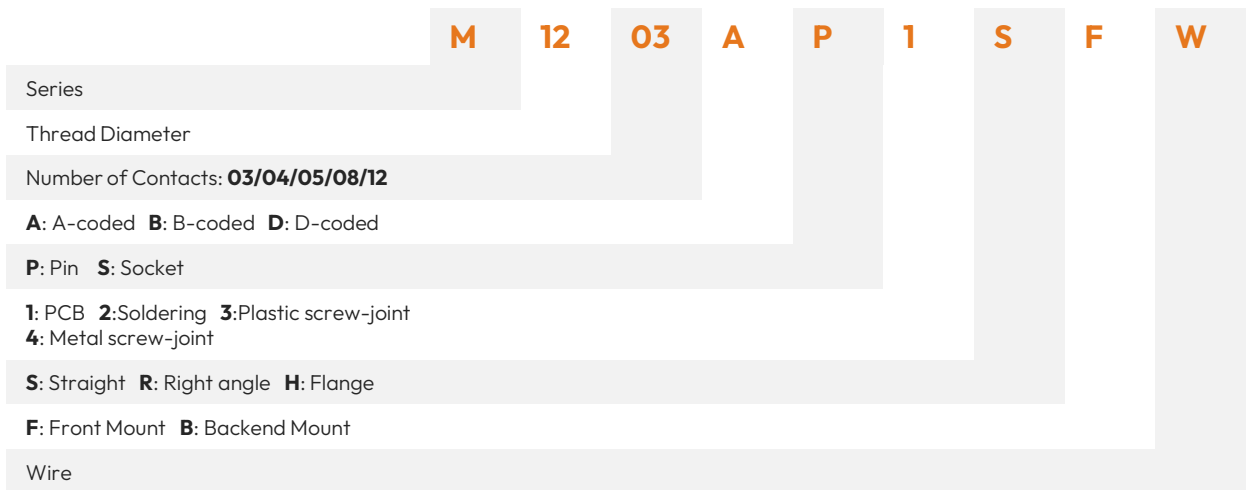
Mechanical Performance

| | |
|----------------------------|---|
| 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 |

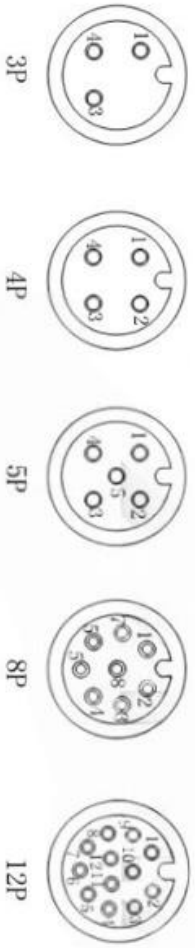
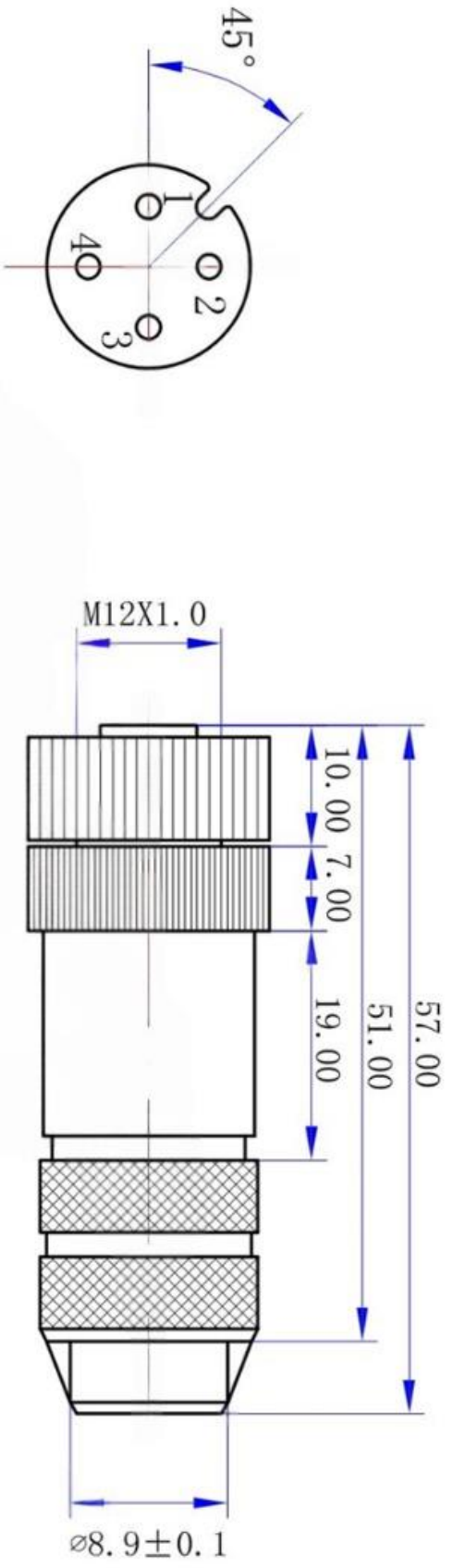
M12 Connector Part Number Breakout



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



| | | | |
|-------------|-------------|----------------|------------|
| Product NO. | | M12-04-A-S-4-S | |
| ISSUE | DESCRIPTION | DRN | DATE |
| First | First issue | Gavin | 2018/11/30 |
| | | | APPROVEN |
| | | | JIM.KING |



Technical data

Ambient conditions
 Ambient temperature -40 85 ° C (-40 . 185 F)
 Pollution Degree 3
 Mechanical specifications
 Degree of protection IP67
 Connection Screw terminals for max. 0.75 mm²

Material CuZn
 Contacts Au
 Contact surface Zinc
 Body Zinc
 Slotted nut Zinc die-casting, nickel-plated

| Technology parameter | 3 | 4 | 5 | 8 | 12 |
|-----------------------------------|-----|-----|-----|----|----|
| NO. of contacts | 3 | 4 | 4 | 5 | 8 |
| Rated current (A) | 4 | 4 | 4 | 4 | 2 |
| Operation limit voltage(AC.V.rms) | 250 | 250 | 250 | 60 | 30 |
| Operation limit voltage(DC.V.rms) | 250 | 250 | 250 | 60 | 30 |

-TOLERANCES-
 UNLESS OTHERWISE
 SPECIFIED



PART DESCRIPTION:
 M12 Female solder screw terminal

| | | | | | |
|----------------|---------------------|-------|------|------|------|
| Appr: JIM.KING | P/N: M12-04-A-S-4-S | Scale | Unit | Type | Page |
| Check: | Date | Free | MM | Z | 1/1 |
| Draw: Gavin | 2018.11.30 | | | | |

UNLESS OTHERWISE SPECIFIED
 TOLERANCES FOR MILLIMETERS ARE:
 0.5 - 8mm ± 0.10mm
 8 - 30mm ± 0.15mm
 30 - 120mm ± 0.20mm

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

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