

M12 Circular Connector

Part Number :

M12-05-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: | 5 Pin |

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: | 60V |
| Rated Current: | 4A |
| Insulation Resistance: | $\geq 100 \text{ M}\Omega$ |
| Contact Resistance: | $< 10 \text{ m}\Omega$ |
| Standard: | IEC 61076-2-101 |
| Shielding Performance: | Shielded |

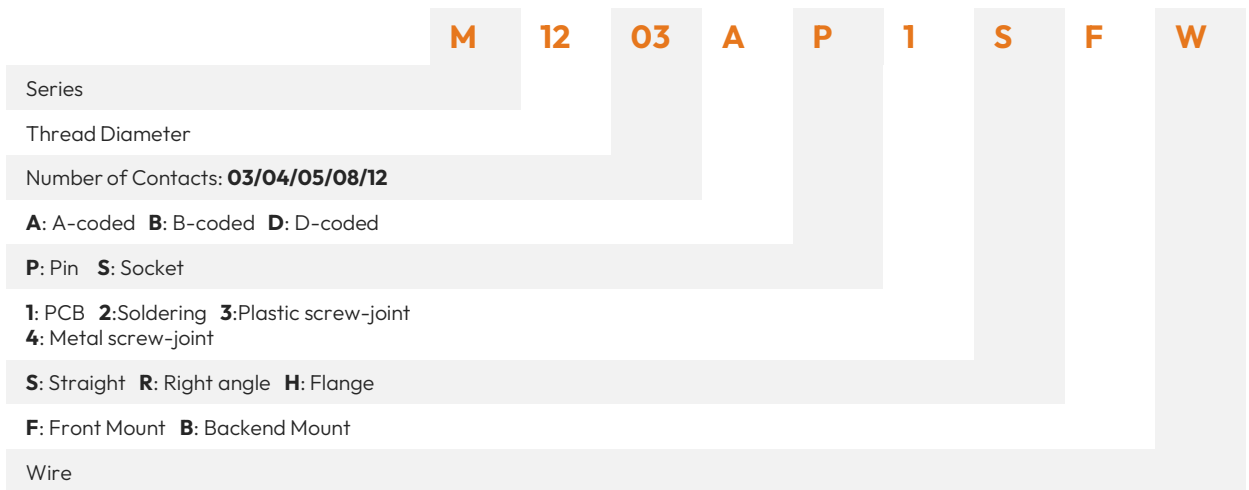
Mechanical Performance

| | |
|----------------------------|---|
| 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](#).

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.



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