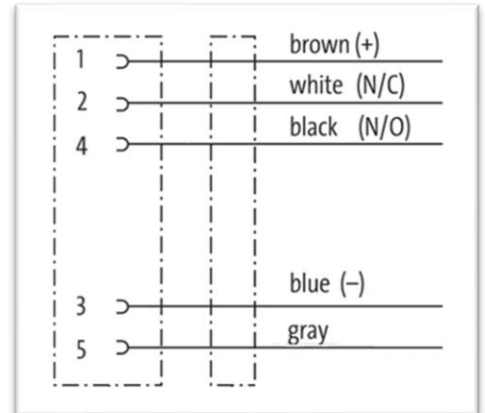


## Product Data sheet

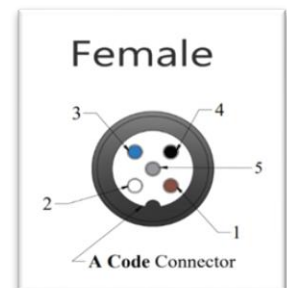
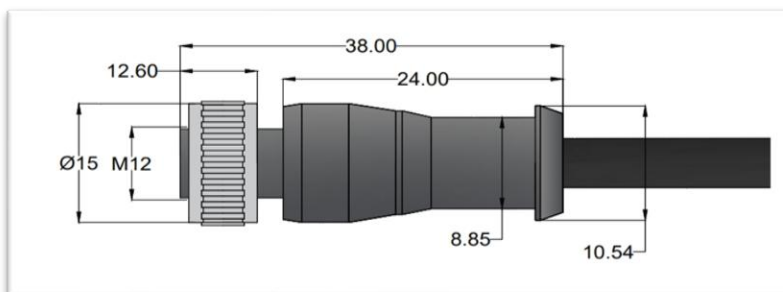
### Sensors and Actuator

- ❖ Product description- M12 Female Straight A code 5 pin Pur Unshielded 5x0.34 Black
- ❖ MPN-2412-66-175-534-XXXX
- ❖ Series-M12 A coded

### Illustration



**-Colour customization available based on MOQ**



Product may differ from image



Product Datasheet Rev.No-01 Effective date-08-12-2025

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Factory Address: 2347/B Wagholi Warehouse, Pune Nagar Road, Wagholi, Pune- 412207, Maharashtra, India.

## Product Data sheet

### Sensors and Actuator

| Technical Data                    |                                                |
|-----------------------------------|------------------------------------------------|
| Operating voltage                 | 300V AC/DC*                                    |
| Rated Surge Voltage               | 2.5 kV                                         |
| Operating current per contact AMP | Max. 4 A                                       |
| Connection type head A            | Female connector, M12 Straight, 5-pin, A coded |
| Connection type head B            | Open end                                       |
| Protection                        | IP67, IP68, IP69                               |
| Housing Material                  | TPU                                            |
| Locking nut material              | Brass, Nickel plated                           |
| LED display                       | No                                             |
| Connector colour                  | Black                                          |
| Tightening torque                 | 0.6 Nm                                         |

| Electrical Data           |                                                                      |
|---------------------------|----------------------------------------------------------------------|
| Overvoltage category      | II                                                                   |
| Contact resistance        | $\leq 5 \text{ m}\Omega$                                             |
| Insulation resistance     | $\geq 100 \text{ m}\Omega$                                           |
| Test voltage              | $\geq 3000 \text{ V}$                                                |
| Conductor material        | Bare Cu litz wires                                                   |
| Max. conductor resistance | Max. $57 \text{ }\Omega/\text{km}$ (at $20 \text{ }^\circ\text{C}$ ) |
| Nominal voltage           | $\leq 300 \text{ v}$                                                 |

| Mechanical Data             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |

| Product properties                     |                                              |
|----------------------------------------|----------------------------------------------|
| Application                            | Actuator-sensor, gigabit ethernet & Profibus |
| Partly UV-resistant                    | in accordance with DIN      EN ISO 4892-2-A  |
| Flammability rating According to UL 94 | HB                                           |

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## Product Data sheet

### Sensors and Actuator

#### General Data

|                                   |                       |
|-----------------------------------|-----------------------|
| <b>Standards</b>                  | IEC-61076-2-101 (M12) |
| <b>Mounting method</b>            | Inserted, tightened.  |
| <b>Pin Contact</b>                | CuZn                  |
| <b>Housing contact</b>            | CuSn                  |
| <b>Material (contact surface)</b> | Au                    |
| <b>Pollution Degree</b>           | 3                     |
| <b>Stripping length (jacket)</b>  | 20 mm (If required)   |
| <b>Temperature range</b>          | -25.....+105°C        |

#### Cable Data

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| <b>Cable Type</b>                         | PUR                                                               |
| <b>Cable weight</b>                       | 40 g/m                                                            |
| <b>Diameter (core)</b>                    | 5*0.34 mm².                                                       |
| <b>AWG</b>                                | similar to AWG 22                                                 |
| <b>Material (wire isolation)</b>          | PP                                                                |
| <b>Material property (wire isolation)</b> | Halogen-, CFC-, cadmium-, silicone- and lead-free                 |
| <b>Colour/numbering of wires</b>          | Brown, White, Blue, Black, Gray                                   |
| <b>Stranding combination</b>              | 5 wires twisted                                                   |
| <b>Shield</b>                             | No                                                                |
| <b>Shielding</b>                          | NA                                                                |
| <b>Optical shield covering</b>            | NA                                                                |
| <b>Material (jacket)</b>                  | PUR                                                               |
| <b>Outer-Ø (jacket)</b>                   | 5.00 ±0.2mm/6.20 ±0.2mm                                           |
| <b>Colour (jacket)</b>                    | Black                                                             |
| <b>Chemical resistance</b>                | good resistance to oil, gasoline and chemicals (EN 60811-404)     |
| <b>Thermal resistance</b>                 | flame retardant UL 1581 Section 1090 (H), CSA FT2 / IEC 60332-2-2 |
| <b>Temperature range (fixed)</b>          | -40...+80 °C, (+105 °C. at max. 10 000 operating hours)           |
| <b>Temperature range (mobile)</b>         | -25...+80 °C, (+105 °C. at max. 10 000 operating hours)           |
| <b>Bend radius (fixed)</b>                | 8× outer Ø                                                        |
| <b>Bend radius (moving)</b>               | 12× outer Ø                                                       |
| <b>No. of bending cycles (C-track)</b>    | 10 Mio. (25 °C)                                                   |
| <b>Acceleration (C-track)</b>             | Max. 10 m/s                                                       |

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## Product Data sheet

### Sensors and Actuator

|                              |                 |
|------------------------------|-----------------|
| <b>Torsion stress</b>        | ±180°/m         |
| <b>No. of torsion cycles</b> | max.2 Mio(25°c) |
| <b>Torsion speed</b>         | 35 cycle/min    |

### Approvals

|       |
|-------|
| UL    |
| CE    |
| cULus |
| RoHS  |

Note: This product has been manufactured by the following Class-I, Class-II and class-III **IPC** standards

To understand the MPN please refer the below Table

| <b>2412-66-175-534-XXXX</b> |                                          |
|-----------------------------|------------------------------------------|
| 24                          | Series                                   |
| 12                          | M12 connector                            |
| 6                           | Female                                   |
| 6                           | Straight                                 |
| 1                           | A code                                   |
| 7                           | PUR unshielded cable-Black               |
| 5                           | 5 pole Connector                         |
| 5                           | 5 core cable                             |
| 34                          | 0.34 mm <sup>2</sup> Core size           |
| XXXX                        | Cable length as per customer requirement |

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