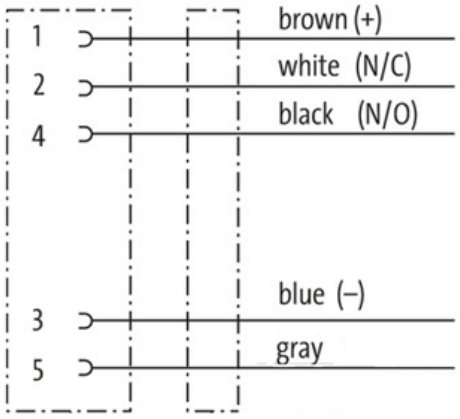
# Product Data Sheet

## Sensors and Actuator

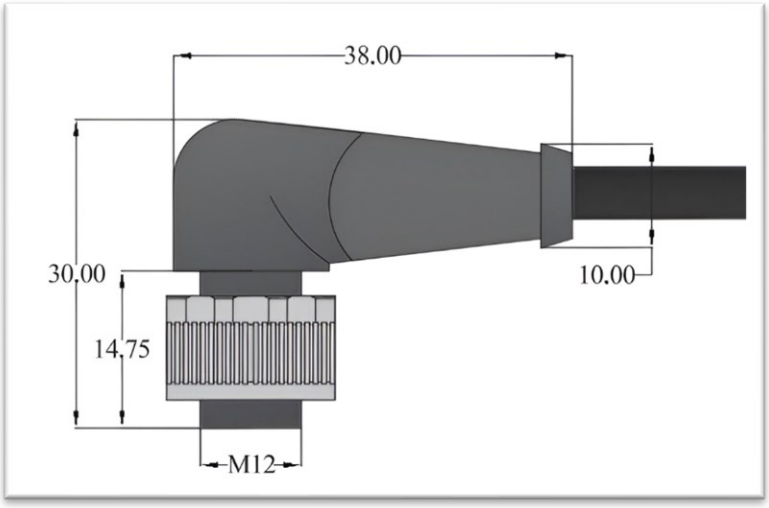
- Product description- M12 Female Angled A code 5 pin Pvc Unshielded 5x0.34 Black
- 2412-67-165-534-XXXX
- Series –M12 A coded

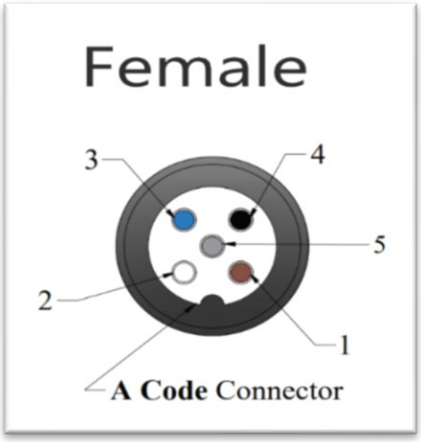
## Illustration






* -Colour customization available based on MOQ




Product may differ from image

Product Datasheet Rev.No-01 Effective date-11-02-2026

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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, Angle, 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** | ≤ 5 mΩ |
| **Insulation resistance** | ≥ 100 mΩ |
| **Test voltage** | ≥ 3000 V |
| **Conductor material** | Bare Cu litz wires |
| **Max. conductor resistance** | Max. 57 Ω/km (at 20 °c) |
| **Nominal voltage** | ≤ 300 v |

| Mechanical Data | |
|---|---|
| **Insertion/withdrawal cycles** | ≥ 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 | |
|---|---|
| **Standards** | IEC-61076-2-101 (M12) |
| **Mounting method** | Inserted, tightened. |
| **Pin Contact** | CuZn |
| **Housing contact** | CuSn |
| **Material (contact surface)** | Au |
| **Pollution Degree** | 3 |
| **Stripping length (jacket)** | 20 mm (If required) |
| **Temperature range** | -25…. +105°C |

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



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# Product Data Sheet

## Sensors and Actuator

| | |
|---|---|
| **Torsion stress** | ±180°/m |
| **No. of torsion cycles** | max.2 Mio(25°c) |
| **Torsion speed** | 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**

| **2412-67-165-534-XXXX** | |
|---|---|
| 24 | Series |
| 12 | M12 connector |
| 6 | Female |
| 7 | Angle |
| 1 | A code |
| 6 | PVC unshielded cable-Black |
| 5 | 5 pole connector |
| 5 | 5 core cable |
| 34 | 0.34 mm² Core size |
| XXXX | Cable length as per customer requirement |



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