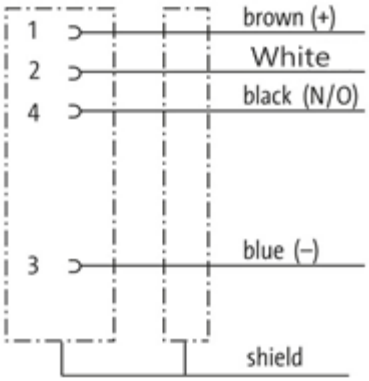
# Product Data Sheet

## Sensors and Actuator

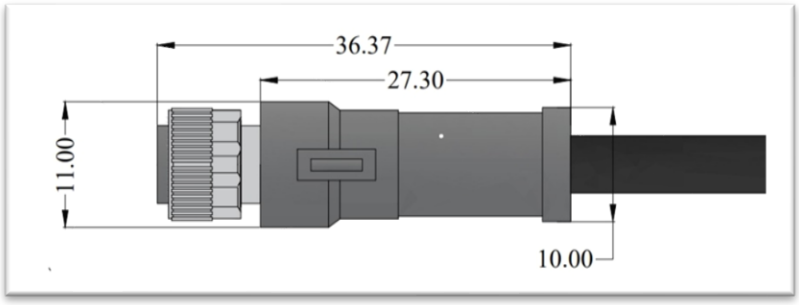
- Product description- M8 Female Straight A code 4 pin Pur Shielded 4x0.34 Black
- 248-66-154-434-XXXX
- Series –M8 A coded

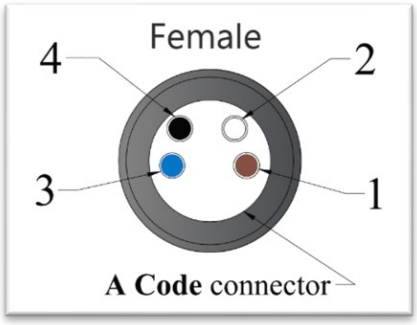
## Illustration




**-Colour customization available based on MOQ**




Product may differ from image



The information in this product PDF has been complied with the utmost care
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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** | 1.5 kV |
| **Operating current per contact AMP** | Max. 4 A |
| **Connection type head A** | Female connector, M8, 4-pin, 0° Straight, 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** | 0.4 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. 78 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** | PUR |
| **Cable weight** | 50 g/m |
| **Diameter (core)** | 4*0.34 mm². |
| **AWG** | similar to AWG 22 |
| **Material (wire isolation)** | PP |
| **Material property (wire isolation)** | Halogen-, CFC-, cadmium-, silicone- and lead-free |
| **Colour/numbering of wires** | Brown, White, Blue, Black |
| **Stranding combination** | 4 wires twisted |
| **Shield** | Yes |
| **Shielding** | Tin braided |
| **Optical shield covering** | Min. 85% |
| **Material (jacket)** | PUR |
| **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)** | 8× outer Ø |
| **Bend radius (moving)** | 12× outer Ø |
| **No. of bending cycles (C-track)** | 10 Mio. (25 °C) |
| **Acceleration (C-track)** | Max. 10 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**

| **248-66-154-434-XXXX** | |
|---|---|
| 24 | Series |
| 8 | M8 connector |
| 6 | Female |
| 6 | Straight 0° |
| 1 | A code |
| 5 | PUR shielded cable-black |
| 4 | 4 pole connector |
| 4 | 4 core cable |
| 34 | 0.34 mm² (Core size) |
| XXXX | Cable length as per customer requirement |



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