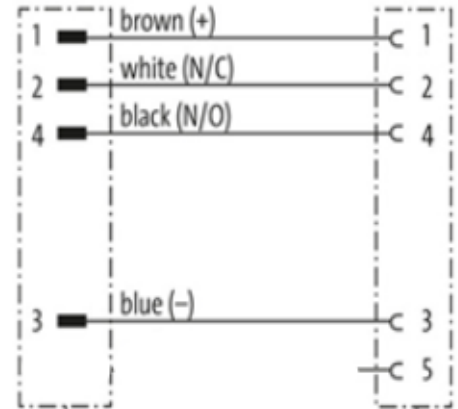


# Product Data Sheet

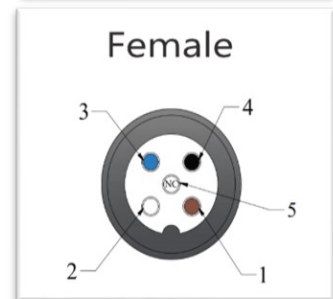
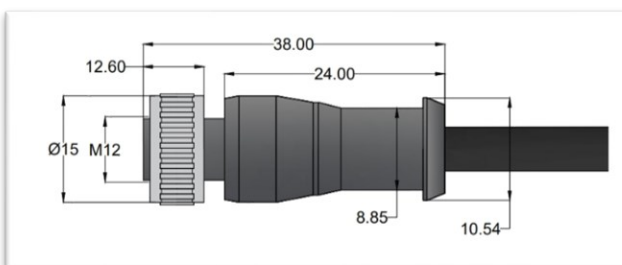
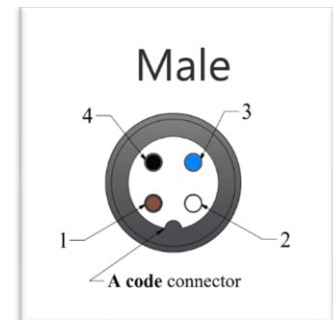
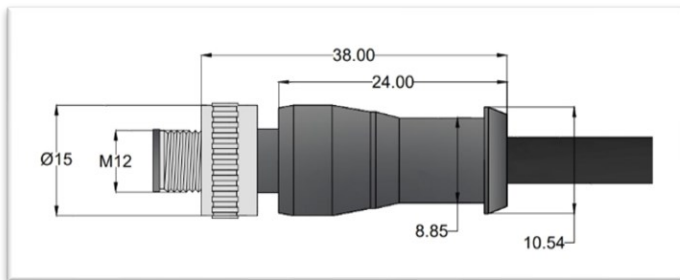
## Sensors and Actuator

- ❖ Product description- M12 Male Straight / M12 Female Straight A Code Pvc Unshielded Black Cable
- ❖ 2412-9666-1645-434-XXXX
- ❖ Series –M12 A coded

### Illustration



-Colour customization available based on MOQ



Product may differ from image



Product Datasheet Rev.No-01 Effective date-21-02-2026

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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	Male connector, M12, 4-pin, 0° Straight, A coded
Connection type head B	Female connector, M12, 5-pin, 0° Straight, A coded
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

<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>	PVC
<b>Cable weight</b>	56 g/m
<b>Diameter (core)</b>	4*0.34 mm <sup>2</sup> .
<b>AWG</b>	similar to AWG 22
<b>Material (wire isolation)</b>	PVC
<b>Material property (wire isolation)</b>	CFC-, cadmium-, silicone- and lead-free
<b>Colour/numbering of wires</b>	Brown, White, Blue, Black
<b>Stranding combination</b>	4 wires twisted
<b>Shield</b>	No
<b>Shielding</b>	NA
<b>Optical shield covering</b>	NA
<b>Material (jacket)</b>	PVC
<b>Outer-Ø (jacket)</b>	5.00 ±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>	5× outer Ø
<b>Bend radius (moving)</b>	10× outer Ø
<b>No. of bending cycles (C-track)</b>	5 Mio. (25 °C)
<b>Acceleration (C-track)</b>	Max. 5 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>2412-9666-1645-434-XXXX</b>	
24	Series
12	M12 connector
96	Male straight 0°
66	Female Straight 0°
1	A code
6	PVC unshielded cable-black
4	4 Pol Connector
5	5 Pole connectors
4	4 Core cable
34	0.34 mm <sup>2</sup> (Core size)
XXXX	Cable length as per customer requirement

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