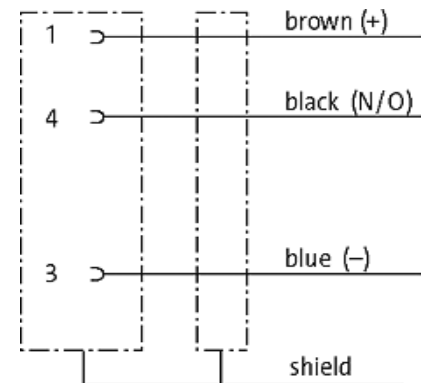


## Product Data sheet

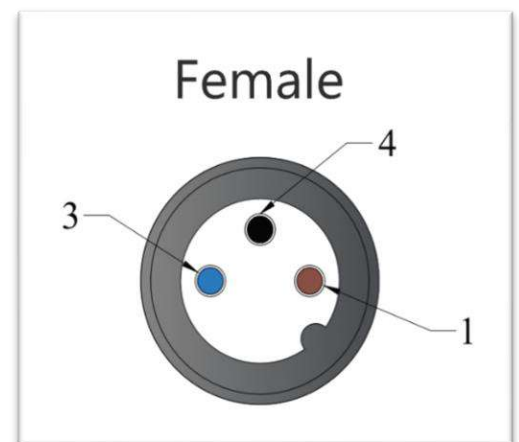
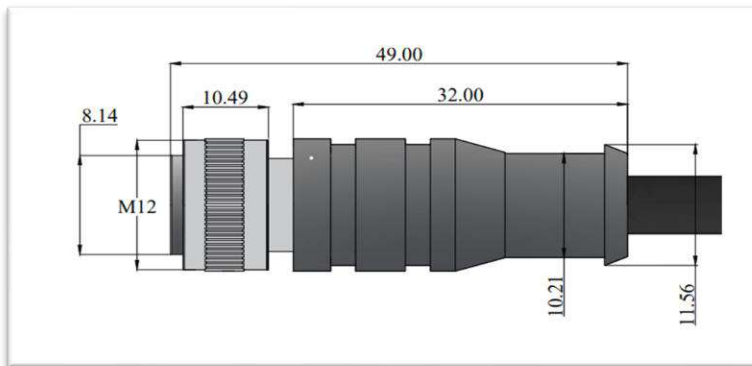
### Sensors and Actuator

- ❖ Product description- M12 A code Female 0° straight 3 pins With PVC Shielded cable 3\*0.34 sqmm black
- ❖ 2412-66-143-334-XXXX
- ❖ Series –M12 A coded

### Illustration



-Colour customization available based on MOQ



Product may differ from image



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Factory Address--- Wagholi Warehousing, Opposite of Reliance Smart, 2347, Pune-Nagar Road, Wagholi, Pune. Maharashtra-412207, 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, 3-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	0.6 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 $\Omega/\text{km}$ (at 20 °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>	PVC
<b>Cable weight</b>	53 g/m
<b>Diameter (core)</b>	3*0.34 mm².
<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, Blue, Black
<b>Stranding combination</b>	3 wires twisted
<b>Shield</b>	Yes
<b>Shielding</b>	Tin braided
<b>Optical shield covering</b>	Min 85%
<b>Material (jacket)</b>	PVC
<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>	5x outer Ø
<b>Bend radius (moving)</b>	10x 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>2412-66-143-334-XXXX</b>	
24	Series
12	M12 connector
6	Female
6	Straight 0°
1	A code
4	PVC shielded cable-black
3	3 pole connector
3	3 core cable
34	0.34 mm <sup>2</sup> (Core size)
XXXX	Cable length as per customer requirement

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