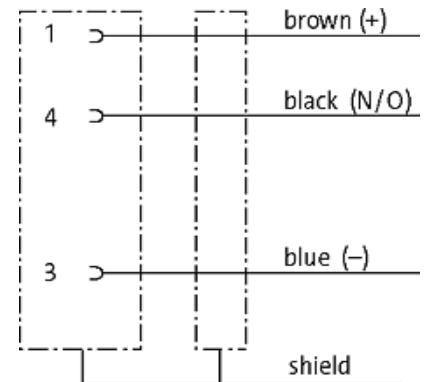


## Product Data sheet

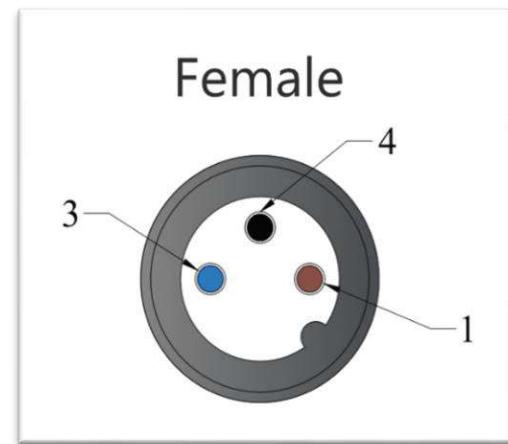
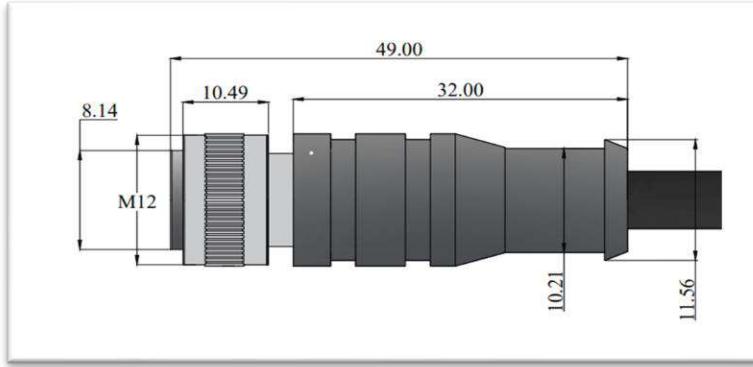
## Sensors and Actuator

- ❖ 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



The information in this product PDF has been complied with the utmost care  
Liability for the correctness completeness and topicality of the information is restricted to gross negligence.

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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	≤ 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
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## 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	53 g/m
Diameter (core)	3*0.34 mm <sup>2</sup> .
AWG	similar to AWG 22
Material (wire isolation)	PVC
Material property (wire isolation)	CFC-, cadmium-, silicone- and lead-free
Colour/numbering of wires	Brown, Blue, Black
Stranding combination	3 wires twisted
Shield	Yes
Shielding	Tin braided
Optical shield covering	Min 85%
Material (jacket)	PVC
Outer-Ø (jacket)	5.00 ±0.2mm/6.20 ±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)	5x outer Ø
Bend radius (moving)	10x 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

<b>Torsion stress</b>	$\pm 180^\circ/\text{m}$
<b>No. of torsion cycles</b>	max.2 Mio( $25^\circ\text{C}$ )
<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 $0^\circ$
1	A code
4	PVC shielded cable-black
3	3 pole connector
3	3 core cable
34	$0.34 \text{ mm}^2$ (Core size)
XXXX	Cable length as per customer requirement

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