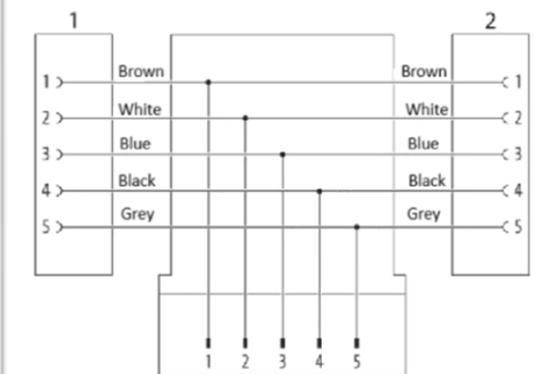


Product Data sheet

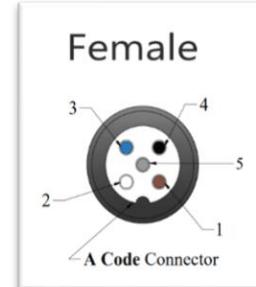
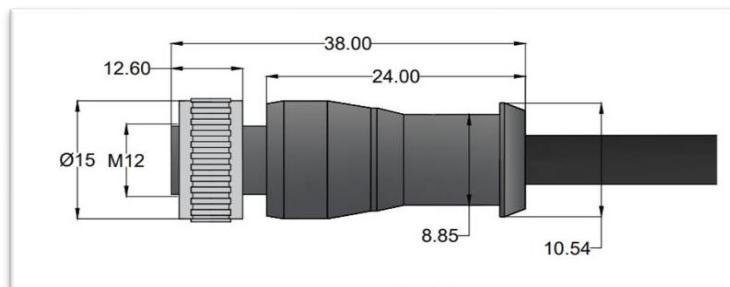
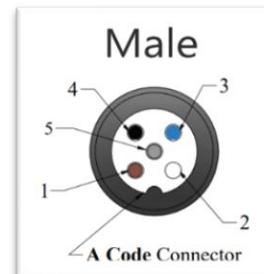
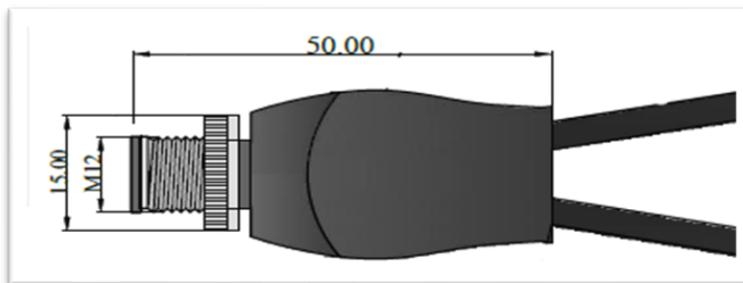
Sensors and Actuator

- ❖ Product description- Y-Distributor M12 Male / M12 Female Straight A Code Pur Unshielded Black Cable
- ❖ MPN-2412D-9666-175-534-XXXX
- ❖ Series -M12 A coded

Illustration



-Colour customization available based on MOQ



Product may differ from image



Product Datasheet Rev.No-00 Effective date-26-11-2025

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India. Contact- info@leiindias.com; sales@leiindias.com; www.leiindias.com; +91-7448296005; +91-020-66205306 GST No-27AACL5628E1ZL
Factory Address: 2347/B Wagholi Warehouse, Pune Nagar Road, Wagholi, Pune- 412207, Maharashtra, India.

Product Data sheet

Sensors and Actuator

Technical Data

Operating voltage	250V AC/DC*
Rated Surge Voltage	2.5 kV
Operating current per contact AMP	Max. 4 A
Connection type head A	Male connector, M12 Straight, 5-pin, A coded
Connection type head B	Female connector, M12 Straight, 5-pin, A coded
Connection type head C	Female connector, M12 Straight, 5-pin, 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	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ m}\Omega$
Test voltage	$\geq 3000 \text{ V}$
Conductor material	Bare Cu litz wires
Max. conductor resistance	Max. 57 Ω/km (at 20 °C)
Nominal voltage	$\leq 300 \text{ V}$

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.....+85°C

Cable Data

Cable Type	PUR
Cable weight	64 g/m
Diameter (core)	5*0.34 mm ² .
AWG	similar to AWG 22
Material (wire isolation)	PUR
Material property (wire isolation)	CFC-, cadmium-, silicone- and lead-free
Colour/numbering of wires	Brown, White, Blue, Black, Grey
Stranding combination	5 wires
Shield	No
Shielding	NA
Optical shield covering	NA
Material (jacket)	PUR
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)	-30...+80 °C, (+105 °C. at max. 10 000 operating hours)
Temperature range (mobile)	-5...+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

2412D-9666-175-534-XXXX	
24	Series
12	M12 connector
D	Y- Distributer
96	Male straight
66	Female Straight
1	A code
6	PUR unshielded cable-black
5	5 pole Connector
5	5 core cable
34	0.34 mm ² (Core size)
XXXX	Cable length as per customer requirement

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