


44429471	DATA SHEET	
Valid from: 21.12.2023	EPIC- M12B5MS-M8B5FS	

Description

- Sensor/actuator cable, 5-pin, PVC black
- Straight M8 plug to straight M12 socket



General characteristic

Number of poles	5
Ambient temperature (operation)	-25 to +80 °C (plug/socket) -40 to +105 °C (cable, permanently installed) -20 to +105 °C (cable, moving)
Protection class	IP67
Coding	B-Standard
Tightening torque	0.4 -1.6 Nm (M12 plug connector)
Mating cycles	≥ 100

Variant

Article	Description of the	Length [m]	Design
44429471	EPIC- M12B5MS-M8B5FS-3,0	3.0 (±30 mm)	straight - straight
44429472	EPIC- M12B5MS-M8B5FS-5,0	5.0 (±50 mm)	straight - straight
44429473	EPIC- M12B5MS-M8B5FS-7,5	7.5 (±50 mm)	straight - straight

Supplementary note

Data sheet also valid for other lengths. Alternative lengths available on request.

Electrical properties

Rated voltage	30 V DC
Rated current at 50 °C	3 A (PIN 1 and PIN 3) 1 A (PIN 2, 4 and PIN 5)
Degree of soiling	3

Mechanical properties


Female, male

Contact surface, material	Ni / Au
Knurl, material	Brass, nickel-plated
Handle body, material	PVC
Seal, material	FKM

Cabel

Cable structure	2 x 20AWG + 3 x 26AWG
Core diameter incl. insulation	1.6 mm ±0.1 mm; 1.0 mm ±0.1 mm

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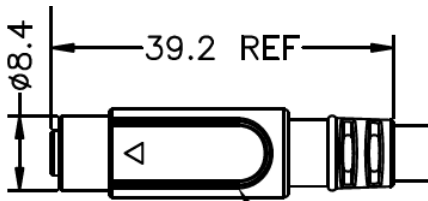
Outer cable diameter	5.5 mm ±0.3 mm
Core labelling	brown, blue, black, grey, white
Coat colour	black
Outer sheath, material	PVC
Core insulation, material	PVC
Insulation resistance	≥ DC-500V 250 MΩ*km (at 20 °C)
Conductor resistance	≤ 150Ω/KM at 20°C MAX.(26AWG), 33.9Ω/KM at 20°C MAX.(20AWG)

Standard

Product standard, M8 plug connector	IEC 61076-2-104
Product standard, M12 plug connector	IEC 61076-2-101

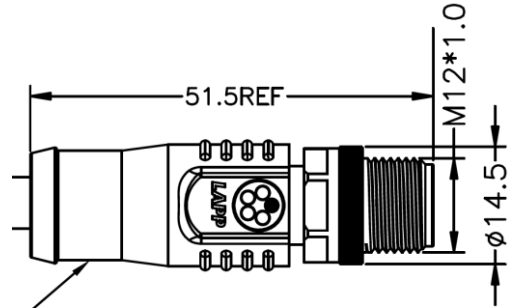
Technical drawings

Dimensioned drawing



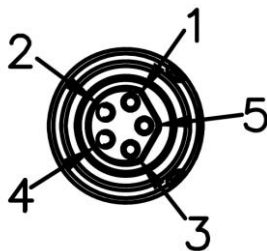
Plug M8 x 1, straight

Dimensioned drawing



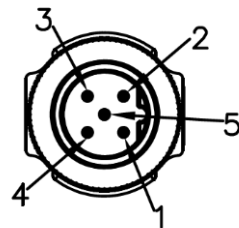
Socket M12 x 1,

Pole mapping




Pole pattern M8 socket, 5-pin, B-coded

Pole mapping

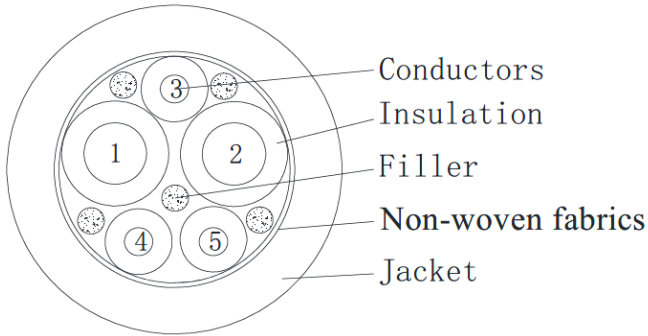


Pin configuration M12 pin, 5-pin, B-coded,

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Cable cross-section



Color Code

Unit A 3C

Unit B 2C

3.White

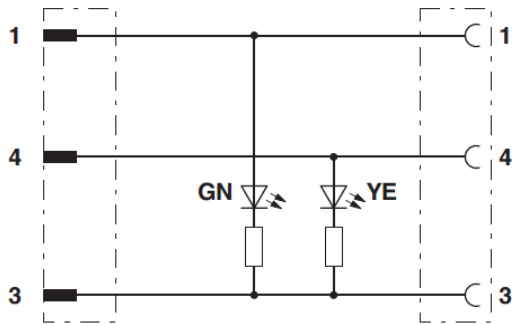
1.Brown

4.Black

2.Blue

5.Gray

Circuit diagram



Contact assignment of the M8 plug and the M12 socket

Areas of application

For increased mechanical stress and harsh operating conditions

Note

The photographs are not to scale and are not detailed images of the respective products.

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