

381166323	DATA SHEET	
Valid from: 28.06.2024	EPIC® SENSOR M12B 5-PIN SCREW	

Description:

- Circular connector for signal transmission
- Straight and angled version with cable aperture 4 mm - 8 mm
- High-quality gold-plated contacts



Product variants:

Article number	Type	Pole image	Cable diameter
381166323	Cable plug with male contacts (F6)	B-coded; 5 pole	4 mm - 8 mm
381166330	Cable socket with female contacts (D6)	B-coded; 5 pole	4 mm - 8 mm
381166336	Angled cable plug with male contacts (F1)	B-coded; 5 pole	4 mm - 8 mm
381166342	Angled cable socket with female contacts (D7)	B-coded; 5 pole	4 mm - 8 mm

General characteristic values:

Series	Sensor M12
Coding	B-coded
Execution	Cable plug/cable socket (angled or straight)
Pole image	5-Pin
Rated voltage	60 V
Rated impulse voltage	1.5 kV
Degree of soiling	3
Rated current in A	4 A
Insulation resistance	≥ 100 MΩ
Contact resistance	≤ 10 mΩ
Connection cross-section	Screw terminal contacts up to 1.5 mm ² (AWG 16)
Cable connection	4 mm - 8 mm
Protection class	IP 67 according to IEC 60529
Mating cycles	> 100
Temperature range	-25°C to +85°C
Tightening torque Contact:	0.3 Nm
Cable clamp tightening torque:	0.6 Nm
Tightening torque for connector locking	0.3 Nm

Materials/surface:

Contacts	Copper alloy
Contact surface	Au (gold)
Contact body material	PA

Standards:

Product standard	DIN EN 61076-2-101
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Authorisations:

In preparation

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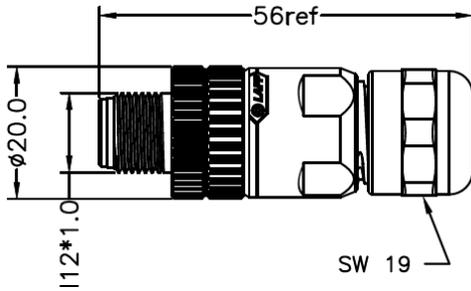
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Technical drawings

Cable plug F6

Technical drawing

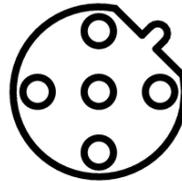
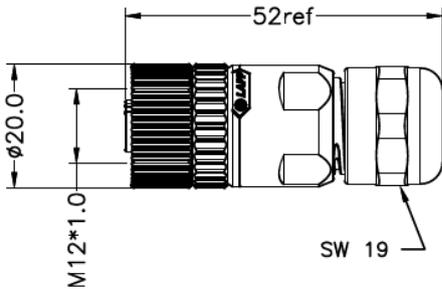
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Cable socket D6

Technical drawing

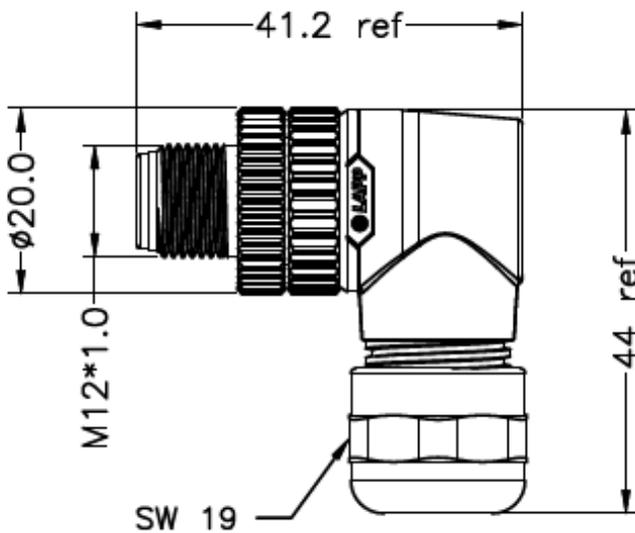
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Angled cable connector F1

Technical drawing

Pole image



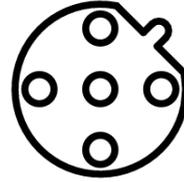
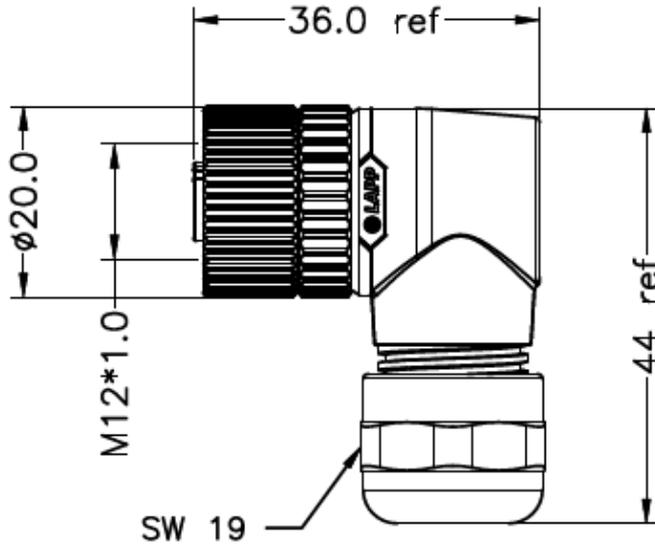
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Angled cable socket D7

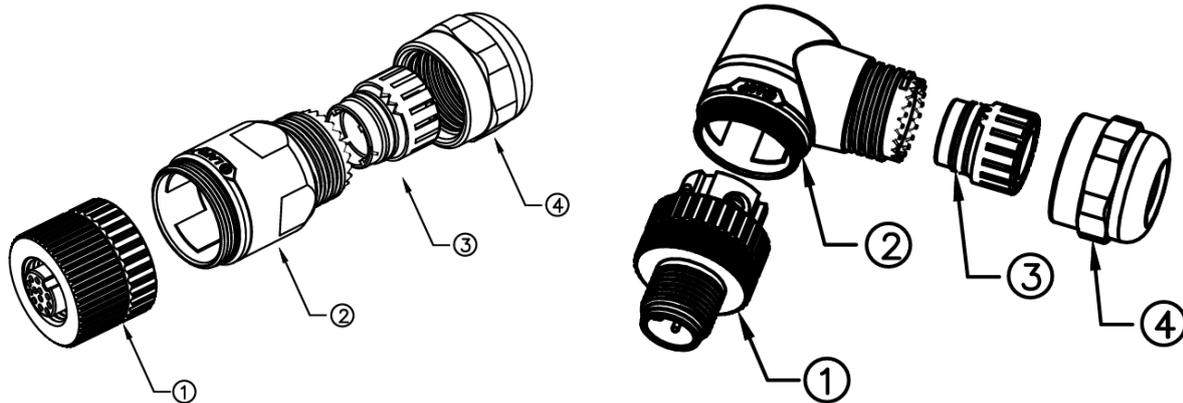
Technical drawing

Pole image



Assembly:

- Sheath length: 22 mm
- Stripping length: 5 mm
- 1 Insulator Tightening torque contacts: 0.2 Nm
- 2 housing Tightening torque to the insulator: 0.3 Nm
- 3 & 4 Cable clamping Tightening torque: 0.6 Nm



Areas of application:

Signal transmission for mechanical and plant engineering and servomotors

Note:

The photographs are not to scale and are not detailed images of the respective products. Further information can be found in the product standard.

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