

381166311	DATA SHEET	
Valid from: 05.11.2024	EPIC® POWER M12K SCREW 4+PE	

Description:

- Circular connectors for power transmission
- Straight version with cable aperture 8 mm - 12 mm
- High-quality gold-plated screw contacts



Product variants:

Article number	Type	Pole image	Cable diameter
381166315	Cable plug with male contacts (F6)	K-coded; 4+PE	8 mm - 12 mm
381166314	Cable socket with female contacts (D6)	K-coded; 4+PE	8 mm - 12 mm
381166311	Angled cable plug with male contacts (F1)	K-coded; 4+PE	8 mm - 12 mm
381166312	Angled cable socket with female contacts (D7)	K-coded; 4+PE	8 mm - 12 mm

General characteristic:

Series	Power M12
Coding	K-coded
Type	Cable plug/cable socket (angled or straight)
Pole image	4+PE
Rated voltage	630 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated current	12 A
Contact resistance	≤ 10 mΩ
Connection cross-section	Screw contacts 0.5 - 2.5 mm²
Cable diameter	8 mm - 12 mm
Protection class	IP 67 according to IEC 60529
Mating cycles	>100
Temperature range	-25°C up to +85°C
Tightening torque Contact	0.3 Nm
Tightening torque cable clamp	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 61076-2-111
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Approvals:

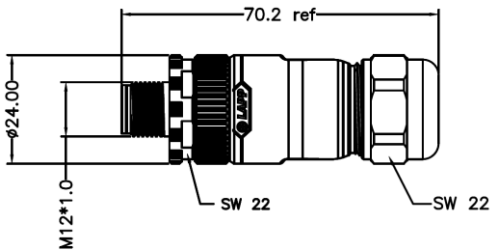
In preparation

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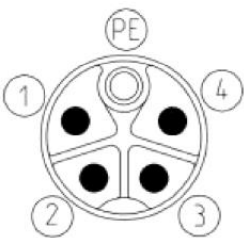
Technical drawings

Technical drawing

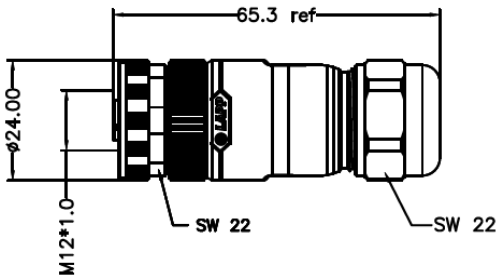


Cable plug F6

Pole image

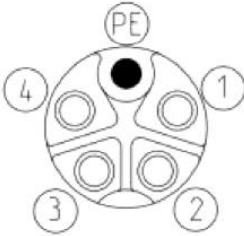


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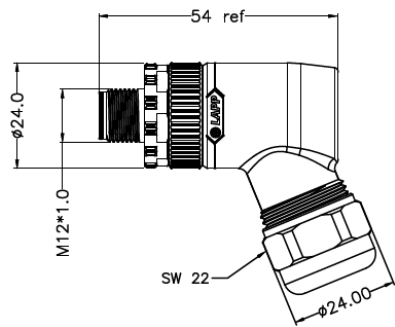


Cable socket D6

Pole image

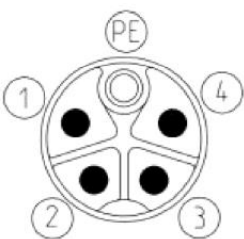


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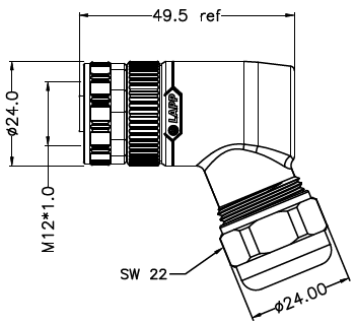


Angled plug F1

Pole image

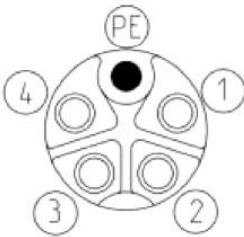



Technical drawing



Angle socket F7

Pole image



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Assembly:

Sheath length:	25 - 30 mm
Stripping length:	4 - 5 mm
Tightening torque Contact:	0.3 Nm
Tightening torque cable clamp:	0.6 Nm

Areas of application:

Power 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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