

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
------------------	--------------------

Approvals:

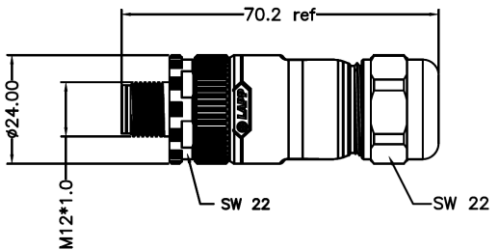
In preparation

Creator: VACH1/BU EPIC Released: JUKL2/BU EPIC	Document: DB381166311EN Version: 00	Page 1 from 3
---	--	---------------

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

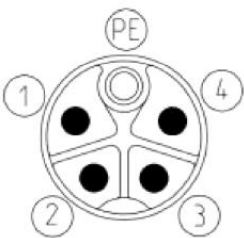
Technical drawings

Technical drawing

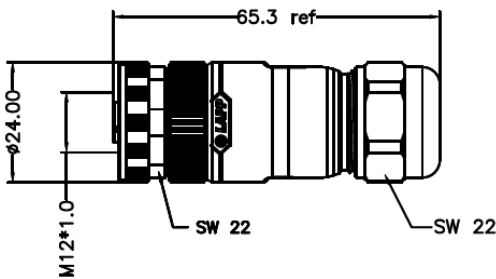


Cable plug F6

Pole image

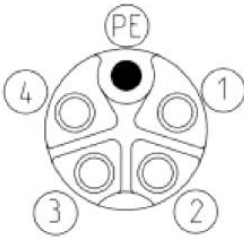


Technical drawing

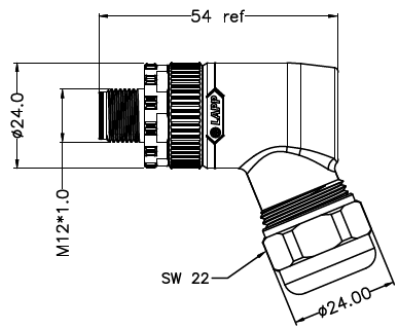


Cable socket D6

Pole image

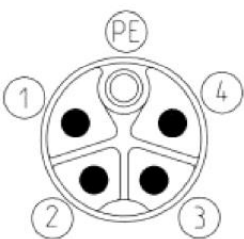


Technical drawing

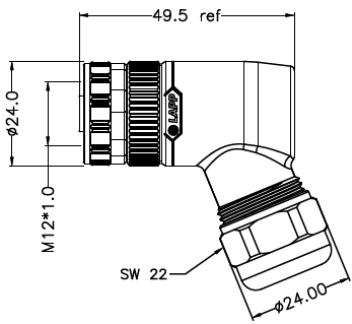


Angled plug F1

Pole image

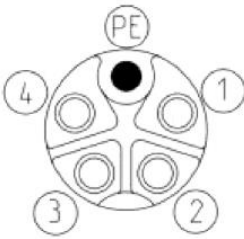


Technical drawing



Angle socket F7

Pole image



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

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.

Creator: VACH1/BU EPIC Released: JUKL2/BU EPIC	Document: DB381166311EN Version: 00	Page 3 from 3
---	--	---------------