SACC-M12MSK-4PECT-CL SH - Power connector

1027474

https://www.phoenixcontact.com/in/products/1027474

Power connector, Power, 5-position, shielded, Plug straight M12, coding: K, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 8 mm ... 13 mm, without crimp contacts

Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: AC connectors for up to 16 A and 690 V AC
- Protection against mismatching, thanks to special K-coding

Commercial data

Item number	1027474
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	AF2CJB
Catalog page	Page 279 (C-2-2019)
GTIN	4055626522197
Weight per piece (including packing)	41.5 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Notes

|	
Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

Product type	Circular connector (cable-side)
Application	Power supply
Sensor type	Power
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	K
Cable outlet	straight

Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Dimensions
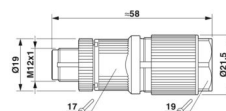
Dimensional drawing	
Length	58 mm

External dimensions	
Outside diameter	8 mm ... 13 mm

Housing	
Diameter housing	21.5 mm

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material	PA
Material for screw connection	Zinc die-cast, tin-plated

Connection data

Conductor connection	
Connection method	Crimp connection

Connection cross section	1.5 mm² ... 2.5 mm² (flexible)
Connection cross section AWG	14 (flexible)
Tightening torque	5 Nm (Pressure nut with coupling sleeve)

Pin assignment	
Contact | Color (signal designation) | Contact (optional)	1 = BK
	2 = BK
	3 = BK
	4 = BK
	PE = GNYE

Electrical properties

Rated surge voltage	6 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	690 V AC
Nominal current I_N	16 A (when using 2.5 mm² conductors)
	16 A (at 40 °C)

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

Connector

Connection 1	
Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	K

Cable/line

Signal type/category	Power

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	based on IEC 61076-2-111

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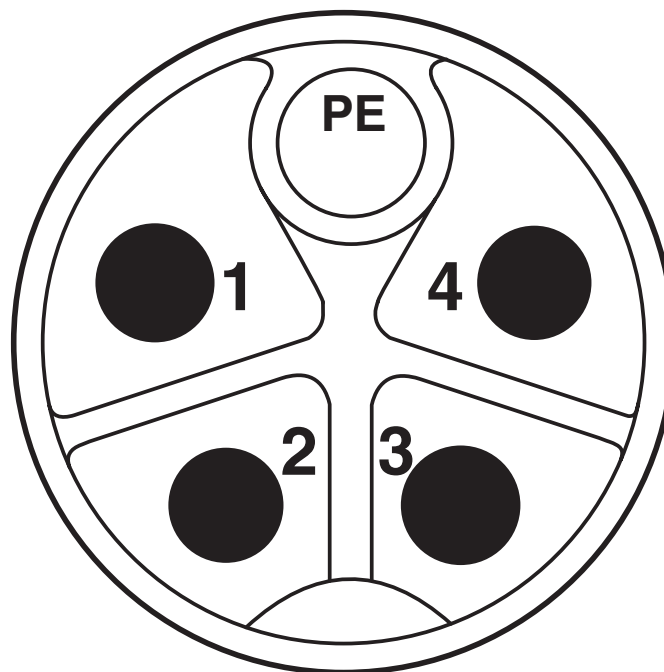https://www.phoenixcontact.com/in/products/1027474

Drawings

Functional drawing
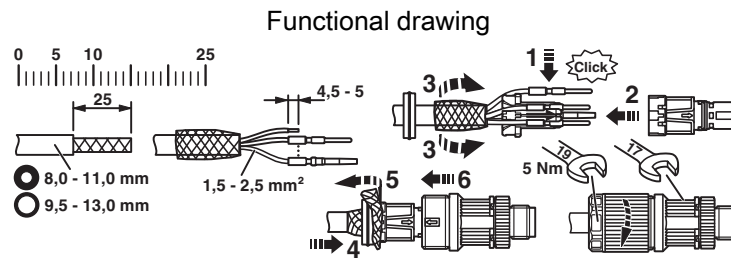
Schematic diagram

Pin assignment of M12 male connector, 4-pos.+PE, K-coded, view of pin side

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Dimensional drawing
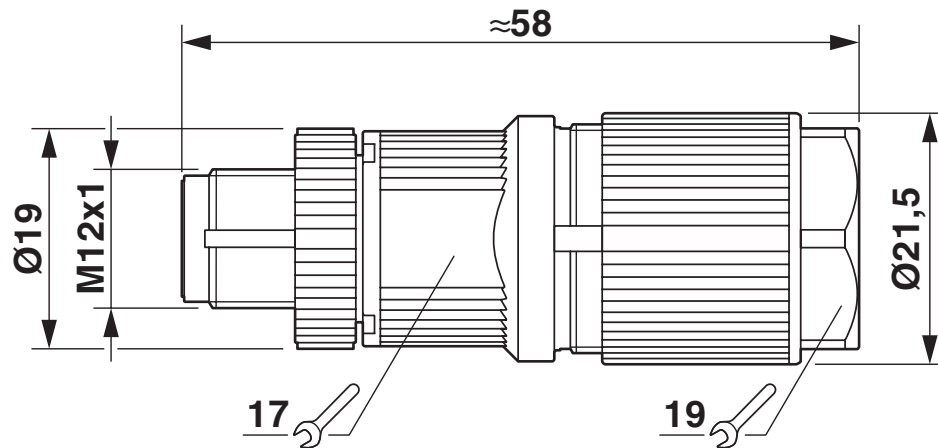
Plug, M12 x 1, straight, shielded

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1027474

cULus Recognized Approval ID: E468743				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	600 V	13 A	- 14	-

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Mandatory accessories

CC1,5-TS-2,10M AU - Crimp contact

1029394

https://www.phoenixcontact.com/in/products/1029394

Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 14 ... 14

CC1,5-TS-2,50M AU - Crimp contact

1029388

https://www.phoenixcontact.com/in/products/1029388

Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

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CC1,5-TS-2,10FPE K/L AU - Crimp contact

1029401

https://www.phoenixcontact.com/in/products/1029401

Crimp contact, contact diameter: 1.5 mm, turned, Socket, contact material: CuZn, contact surface: Ni/Au, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 14, for the PE or functional ground connection

CC1,5-TS-2,50FPE K/L AU - Crimp contact

1029393

https://www.phoenixcontact.com/in/products/1029393

Crimp contact, contact diameter: 1.5 mm, turned, Socket, contact material: CuZn, contact surface: Ni/Au, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14, for the PE or functional ground connection

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CRIMPFOX-TC MP-6 - Crimping pliers with digital display

1202888

https://www.phoenixcontact.com/in/products/1202888

Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm^2, digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

Accessories

CRIMPFOX-TC MP/LOC-1 - Spare locator

1142829

https://www.phoenixcontact.com/in/products/1142829

Locator for CRIMPFOX-TC MP6

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WIREFOX 2,5 - Stripping tool

1212368

https://www.phoenixcontact.com/in/products/1212368

Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm^2 stranded/1.5 mm^2 solid

WIREFOX-D 40 - Stripping tool

1212161

https://www.phoenixcontact.com/in/products/1212161

Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts