SACC-DSI-M12FSK-4PE-M16XL/0,5 - Device connector rear mounting

1162464

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Device connector rear mounting, Power, 5-position, Socket, straight, M12, K-coding, on free cable end, Individual wires, cable length: 0.5 m, 2.50 mm^2, PEX litz wire, potted, this item is expected to be lead-free from Q3 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket
- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1162464
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHG
GTIN	4063151172749
Weight per piece (including packing)	104.3 g
Weight per piece (excluding packing)	93.181 g
Customs tariff number	85444290
Country of origin	DE

Technical data

Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Order information:	Lock nut is included in the scope of delivery
General	Contact connection method: Crimp connection

Safety note

Safety note	• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• Assembled products may not be manipulated or improperly opened.
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Only use tools recommended by Phoenix Contact
	• Ensure that the protective or functional ground has been properly connected.
	• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Mounting type	Rear mounting (M16 x 1.5, XL version, with flat nut, tightening limitation)
Tightening torque	1.5 Nm ... 2 Nm

Product properties

Product type	Circular connectors (device side)
Application	Power
Number of positions	5
Connection profile	4+PE
No. of cable outlets	1
No. of power contacts	4
Shielded	no
Coding	K

Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Molding compound	PUR (potted)
Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated voltage in acc. with IEC 61076-2-101	690 V
Rated surge voltage	6 kV
Rated surge voltage	6 kV
Nominal voltage U_N	690 V
Nominal current I_N	16 A
Test voltage	6 kV
Test voltage Core/Core	6 kV

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross-section	2.5 mm²
Tightening torque	1.5 Nm ... 2 Nm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Interfaces

Signal type/category	Power

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	K

Connection 2

Head design	free cable end

Cable/line

Cable length	0.5 m
Cable type	PEX litz wire
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Cable cross section	2.5 mm²
Conductor material	Tin-plated Cu litz wires
AWG signal line	14
Material wire insulation	PE-X
Test voltage Core/Core	6 kV
Halogen-free	according to IEC 60754-1
Flame resistance	in acc. with UL FT-2
Other resistance	Hydrolysis-resistant
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-25 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

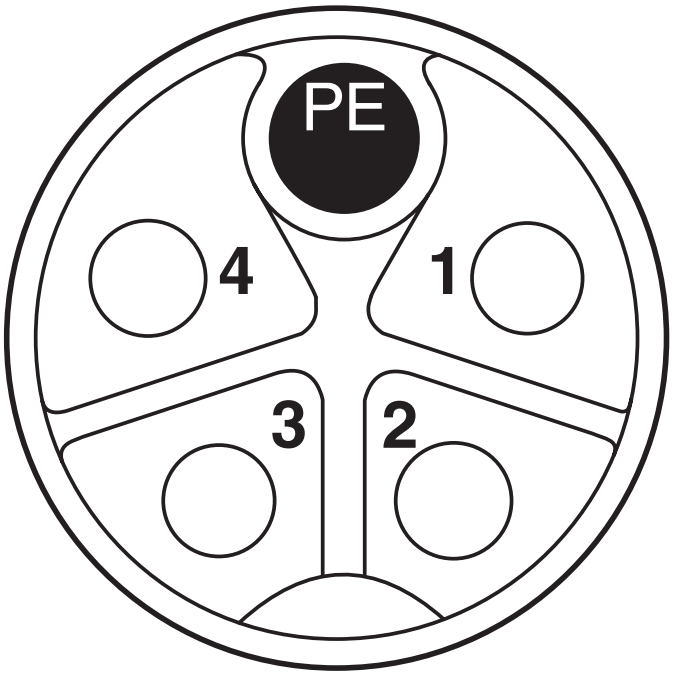
Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
Ambient temperature (operation) (Cable, flexible installation)	-25 °C ... 105 °C (Cable, flexible installation)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 105 °C (cable, fixed installation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

Flame resistance	in acc. with UL FT-2
Other resistance	Hydrolysis-resistant
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

Drawings

Schematic diagram



Pin assignment of M12 socket, 5-pos., K-coded, socket side view

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1162464

cULus Recognized
Approval ID: E468743-20180113

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	16 A	14	-

Classifications

ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

ETIM

ETIM 10.0	EC003570

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	7b3b3029-e98b-4111-b2ba-0fa3941e8127

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