

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector front mounting, Power, 5-position, Socket, straight, M12-Standard, L-coding, on free cable end, Individual wires, cable length: 0.2 m, 1.31 mm², UL/cUL stranded hook-up wire, potted, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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	1239542
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCFG
GTIN	4063151393359
Weight per piece (including packing)	32.4 g
Weight per piece (excluding packing)	29.695 g
Customs tariff number	85444290
Country of origin	DE

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

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.
Notes on operation	FE not connected to metal parts that can be touched, no protective function

Mounting

Mounting type	Front mounting (M16 x 1.5, XL variant, tightening limitation)
Tightening torque	1.5 Nm ... 2 Nm

Product properties

Product type	Circular connectors (device side)
Application	Power
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	L
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

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
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Bare Cu litz wires

Electrical properties

Rated voltage in acc. with IEC 61076-2-101	63 V
Rated surge voltage	1.5 kV
Rated surge voltage	1.5 kV AC/DC
Nominal voltage U_N	63 V DC

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

Nominal current I_N	12 A
Test voltage	1.5 kV
Test voltage Core/Core	3 kV

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross-section	1.31 mm ²
Tightening torque	1.5 Nm ... 2 Nm

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	L

Connection 2

Head design	free cable end
-------------	----------------

Cable/line

Cable length	0.2 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	brown 1, white 2, blue 3, black 4, pink FE
Cable cross section	1.31 mm ²
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE
Test voltage Core/Core	3 kV
Halogen-free	yes
Flame resistance	in acc. to UL 1581 VW1
Ambient temperature (operation)	-40 °C ... 85 °C (without mechanical actuation) -40 °C ... 85 °C (without mechanical actuation) -25 °C ... 105 °C (Cable, flexible installation)

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

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)
Ambient temperature (operation) (Cable, fixed installation)	-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. to UL 1581 VW1
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting

1239542

<https://www.phoenixcontact.com/us/products/1239542>

Drawings

Schematic diagram



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

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting




1239542

<https://www.phoenixcontact.com/us/products/1239542>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1239542>

 cULus Recognized Approval ID: E468743-20180113				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	63 V	12 A	16	-

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

Classifications

ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

ETIM

ETIM 10.0	EC003570
-----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5X - Device connector front mounting



1239542

<https://www.phoenixcontact.com/us/products/1239542>

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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com