

SACC-DSI-M12FSL-4FE-M16XL/1,5X - Device connector rear mounting



1238580

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Device connector rear mounting, Power, 5-position, Socket, straight, M12, L-coding, on free cable end, Individual wires, cable length: 1.5 m, 2.50 mm², PEX litz 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	1238580
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHB
GTIN	4063151386290
Weight per piece (including packing)	235.8 g
Weight per piece (excluding packing)	233.513 g
Customs tariff number	85444290
Country of origin	DE

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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
Order information:	Lock nut is included in the scope of delivery

Mounting

Mounting type	Rear mounting (M16 x 1.5, XL version, with flat nut, tightening limitation)
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Product properties

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

Electrical properties

Rated voltage in acc. with IEC 61076-2-101	63 V
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Rated surge voltage	1.5 kV
Rated surge voltage	1.5 kV AC/DC
Nominal voltage U_N	63 V DC
Nominal current I_N	16 A
Test voltage	1.5 kV
Test voltage Core/Core	6 kV

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross-section	2.5 mm ²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

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

Connection 2

Head design	free cable end
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Cable/line

Cable length	1.5 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	brown 1, white 2, blue 3, black 4, gray FE
Cable cross section	2.5 mm ²
AWG signal line	14
Test voltage Core/Core	6 kV
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

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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

Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

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Drawings

Schematic diagram



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

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Approvals

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 cULus Recognized Approval ID: E468743-20180113		Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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		63 V	16 A	14	-

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Classifications

ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

ETIM

ETIM 10.0	EC003570
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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