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Flush-type connector - SACC-E-M12FS-8CON-M16/0,5 VA

1458842

https://www.phoenixcontact.com/gb/products/1458842

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Sensor/actuator flush-type socket, 8-pos., stainless steel, front/screw mounting with M16 thread, with 0.5 m TPE litz wire, 8 x 0.25 mm^2

Your advantages

- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial Data

Item number	1458842
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	ABQCFB
Product Key	ABQCFB
Catalog Page	Page 268 (C-2-2013)
GTIN	4046356655514
Weight per Piece (including packing)	27.6 g
Weight per Piece (excluding packing)	27 g
Customs tariff number	85366990
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.

Product properties

Product type	Circular connectors (device side)
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Ambient conditions

Degree of protection	IP65/IP67/IP69/IP69K
Degree of protection	IP65/IP67/IP69K
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

Connector

Insertion/withdrawal cycles	> 100

Connection 1

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

Head 2

Head design	free cable end

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V (AC)

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	30 V (DC)
Nominal current I_N	2 A

Material specifications

Flammability rating according to UL 94	V0
Sealing material	FKM
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Cable gland material	Stainless steel

Connection data

Conductor connection

Connection method	Individual wires

Mounting

Mounting type	Front mounting

Standards and regulations

Standards/specifications	IEC 61076-2-101

Cable / line

Cable length	0.5 m

Cable structure

Cable type	TPE litz wire
Signal type/category	Universal
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Wire diameter incl. insulation	1.15 mm ±0.07 mm
Single wire, color	Brown, blue, white, gray, pink, green, yellow, red

Electrical properties

Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Conductor resistance	≤ 80 Ω/km
Cable insulation resistance	≥ 20 MΩ*km

Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

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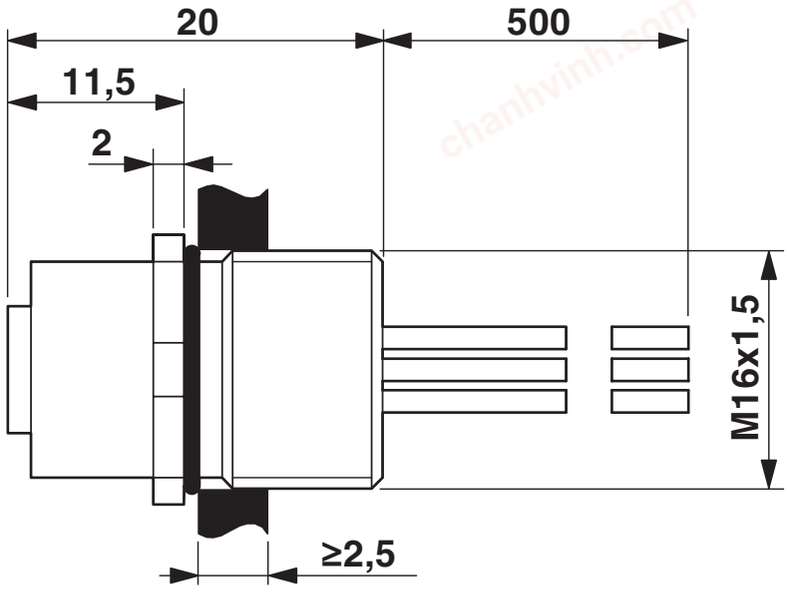
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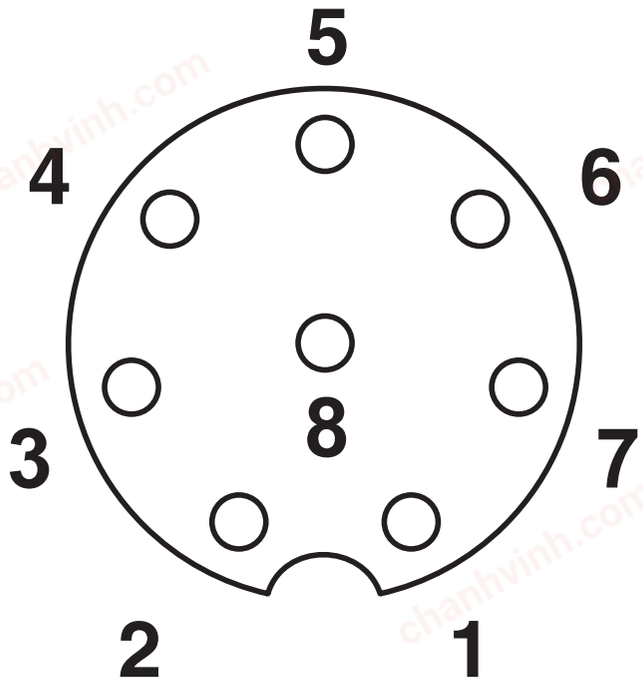
Drawings

Dimensional drawing



M12 flush-type plug

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

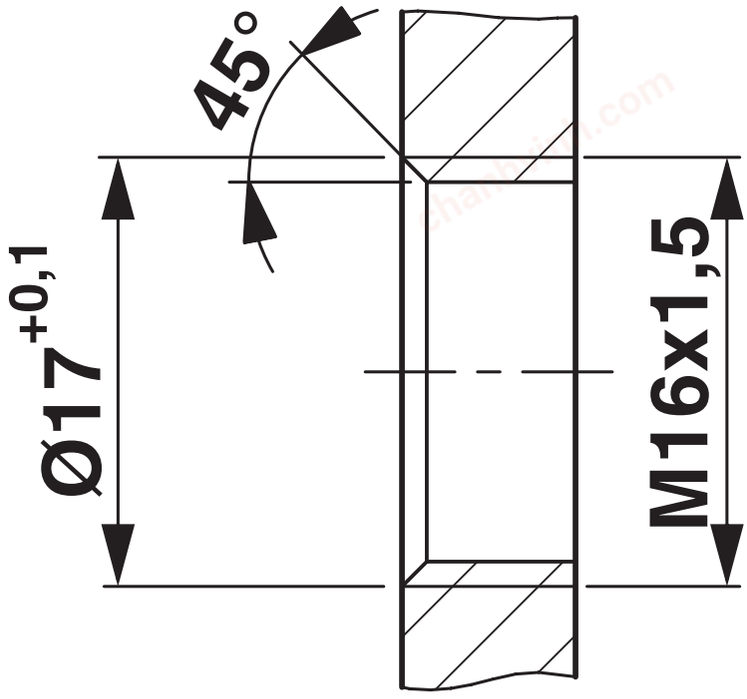
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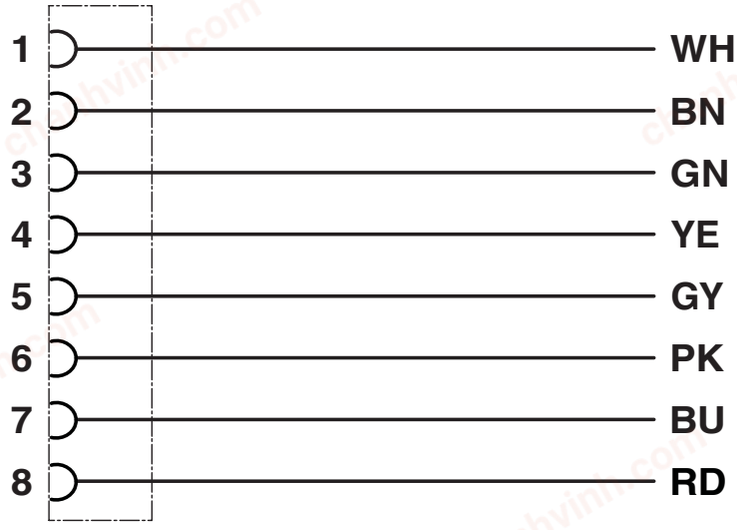
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Dimensional drawing



Housing cutout for M16 fastening thread, mounting panel with thread

Circuit diagram



Contact assignment of the M12 socket

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Approvals

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	2 A	- 24	-

EAC
Approval ID: B.01687

cULus Recognized
Approval ID: E221474-20140616

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	30 V	2 A	24 - 22	-

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

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Accessories

Flat gasket

Flat gasket - SACC-M16-SEAL CLM - 1430394

https://www.phoenixcontact.com/gb/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread



Screw plug

Screw plug - PROT-M12 - 1680539

https://www.phoenixcontact.com/gb/products/1680539

An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors



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Screw plug

Screw plug - PROT-M12 SH - 1503302

https://www.phoenixcontact.com/gb/products/1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

Screw plug

Screw plug - PROT-M12 FB - 1555538

https://www.phoenixcontact.com/gb/products/1555538



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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Flat nut

Flat nut - SACC-M16-NUT-VA - 1404983

https://www.phoenixcontact.com/gb/products/1404983

Flat nut with M16 thread



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