chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

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.



Sensor/actuator flush-type plug, 4-pos., M12, A-coded, front/screw mounting with M20 x 1.5 thread, with 0.5 m TPE litz wire, 4 x 0.34 mm^2, brass housing

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
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial Data

Item number	1408451
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	ABQCDA
Product Key	ABQCDA
Catalog Page	Page 40 (C-2-2019)
GTIN	4046356828505
Weight per Piece (including packing)	34.3 g
Weight per Piece (excluding packing)	34.3 g
Customs tariff number	85444290
Country of origin	DE

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

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.

Safety note

Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	• 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.
	• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	• Assembled products may not be manipulated or improperly opened.
	• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	• When using the product in direct connection with third-party manufacturers, the user is responsible.
	• For operating voltages > 50 V AC, conductive connector housings must be grounded
	• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	• Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	• Only use tools recommended by Phoenix Contact
	• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
	• Ensure that the protective or functional ground has been properly connected.

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

	• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• 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).

Product properties

Product type	Circular connectors (device side)
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Ambient conditions

Degree of protection	IP67
	IP69K
Degree of protection	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 thread type	M12

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	250 V
Nominal current I_N	4 A
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	V0
Sealing material	NBR
Contact material	CuZn
Contact surface material	Au

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

Contact carrier material	PA 6.6
Cable gland material	Brass

Connection data

Conductor connection

Connection method	Individual wires

Mounting

Mounting type	Front mounting M20 x 1,5

Standards and regulations

M12

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	7x 0.25 mm
AWG signal line	22
Material wire insulation	TPE
Thickness, insulation	0.21 mm
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Single wire, color	brown, white, blue, black

Electrical properties

Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Conductor resistance	≤ 57.6 mΩ/m
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)

chanhvinh.com

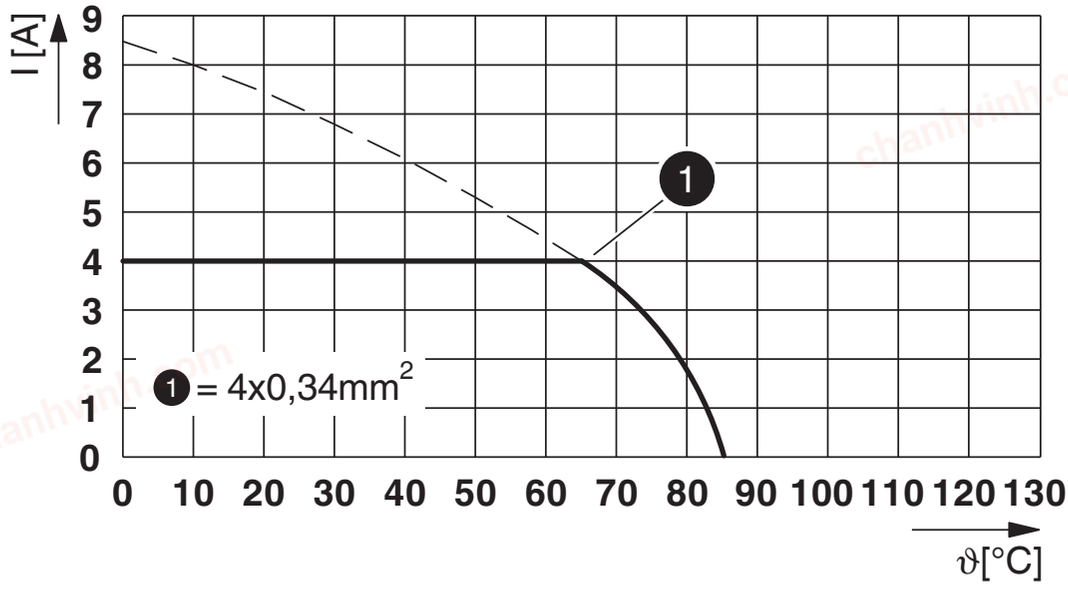
Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

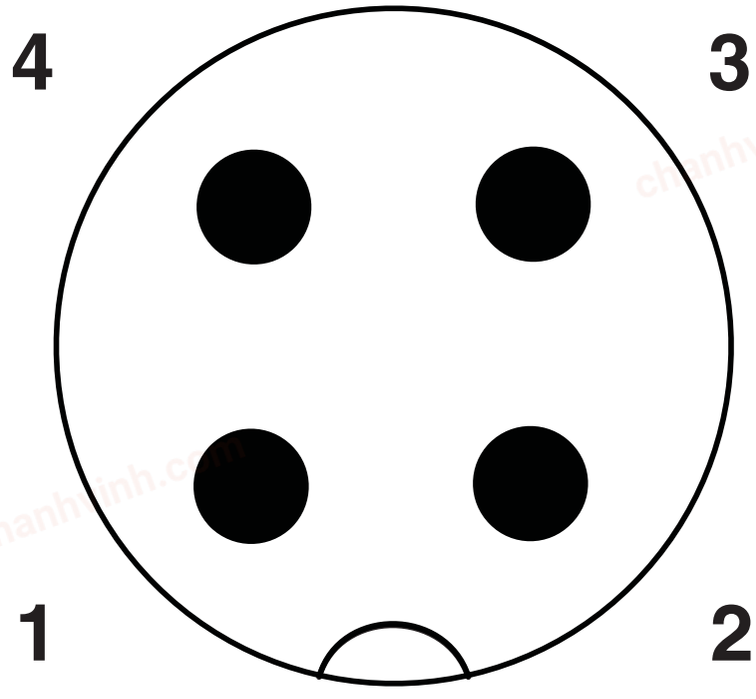
Drawings

Diagram



I = current strength, T = ambient temperature

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

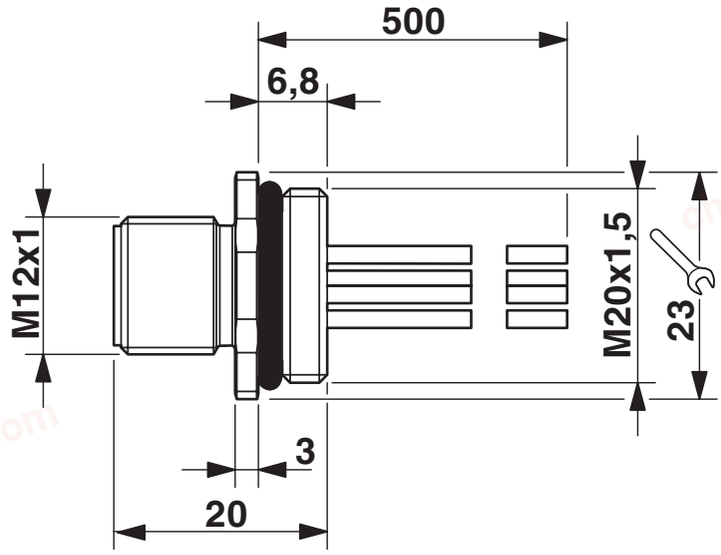
chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

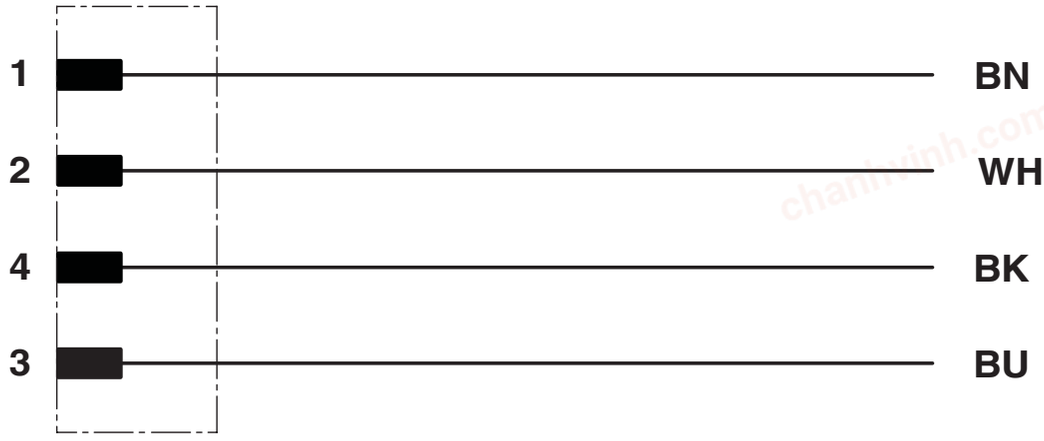
https://www.phoenixcontact.com/gb/products/1408451

Dimensional drawing



M12 flush-type plug

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

Approvals

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	- 22	-

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
	250 V	4 A	22 - 20	-

cUL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	250 V	4 A	- 22	-

cULus Recognized

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

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

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

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”

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

Accessories

Sealing cap

Sealing cap - PROT-M12 FS - 1560251

https://www.phoenixcontact.com/gb/products/1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

Sealing cap

Sealing cap - PROT-M12 FS-M - 1430488

https://www.phoenixcontact.com/gb/products/1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

chanhvinh.com

Panel feed-through - SACC-E-M12MS-4CON-M20/0,5

1408451

https://www.phoenixcontact.com/gb/products/1408451

Sealing cap

Sealing cap - PROT-M12 FS-M-CHAIN - 1430491

https://www.phoenixcontact.com/gb/products/1430491

M12 sealing cap made of metal with fixing chain, for free M12 plugs with chain and 16.0 mm fastening eye



Counter nut

Counter nut - A-INL-M20-N-S - 1411242

https://www.phoenixcontact.com/gb/products/1411242

Counter nut, material: Brass, nickel-plated, for threads M20 x 1.5, color: silver



Phoenix Contact 2022 © - all rights reserved
https://www.phoenixcontact.com

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk