

SACC-MCI-M12MS-4CON - Contact carrier

1440931

<https://www.phoenixcontact.com/us/products/1440931>



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.



Contact carrier, 4-position, Pin, straight, M12, A-coding, Crimp connection, 0.34 mm²

Your advantages

- Convenient field assembly: device connectors for fast on-site mounting
- Contact carriers that are designed for assembly or available with preassembled litz wires
- Standard pin assignments for signal and power transmission with a uniform design-in design

Commercial data

Item number	1440931
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB24
Product key	ABQCED
GTIN	4046356533775
Weight per piece (including packing)	2.41 g
Weight per piece (excluding packing)	0.725 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Notes on operation	<p>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.</p>
Safety note	<p>Safety note</p> <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none">• 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:<ul style="list-style-type: none">o On the producto On the packing labelo In the supplied documentationo 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.

SACC-MCI-M12MS-4CON - Contact carrier

1440931

<https://www.phoenixcontact.com/us/products/1440931>



	<ul style="list-style-type: none">• 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	Contact insert
Number of positions	4
No. of cable outlets	1
Seal present	no
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V
Nominal current I_N	4 A

Connection data

Connection method	Crimp connection
-------------------	------------------

Signaling

Status display	no
Status display present	no

Material specifications

Material Contact carrier	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Flammability rating according to UL 94	V0

Connector

Connection 1	
Head design	Pin
Head cable outlet	straight
Head thread type	M12

SACC-MCI-M12MS-4CON - Contact carrier

1440931

<https://www.phoenixcontact.com/us/products/1440931>



Coding

A

Cable/line

Cable cross section

0.34 mm²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles

> 100

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standard designation

M12 circular connector

Standards/specifications

according to IEC 61076-2-101

Mounting

Mounting type

Front/square flange mounting (25 mm side length)

SACC-MCI-M12MS-4CON - Contact carrier

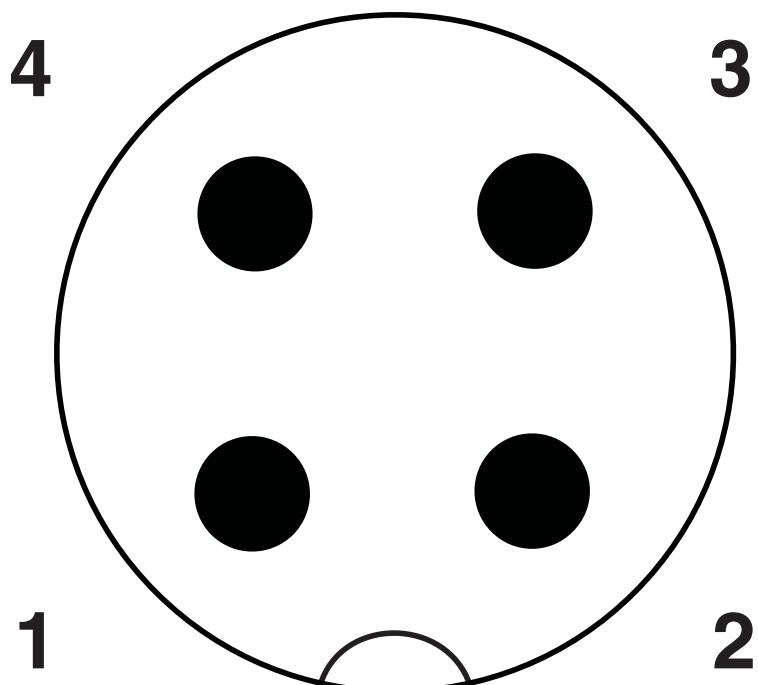
1440931

<https://www.phoenixcontact.com/us/products/1440931>



Drawings

Schematic diagram



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

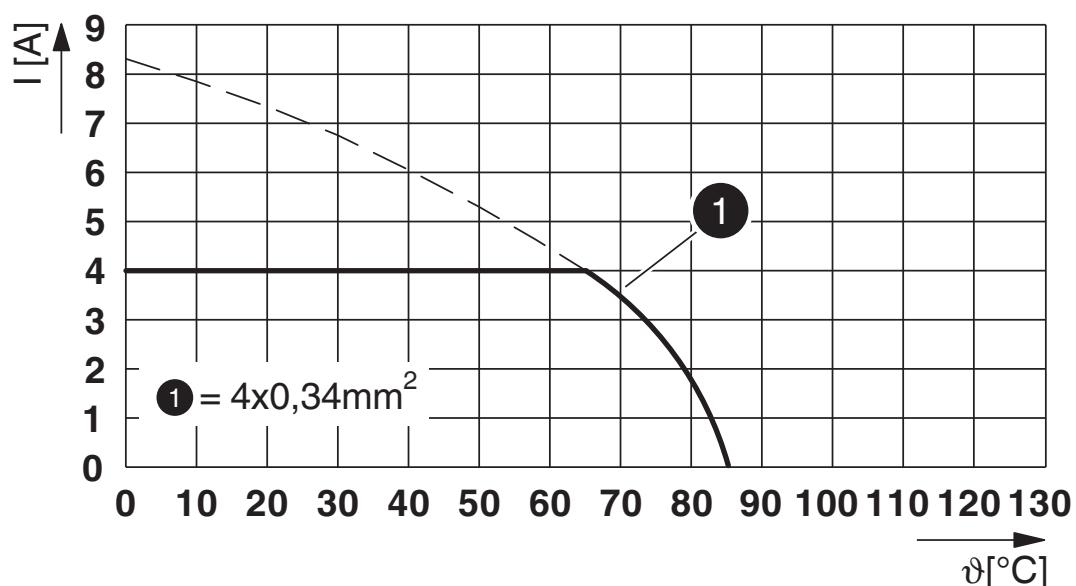
SACC-MCI-M12MS-4CON - Contact carrier

1440931

<https://www.phoenixcontact.com/us/products/1440931>

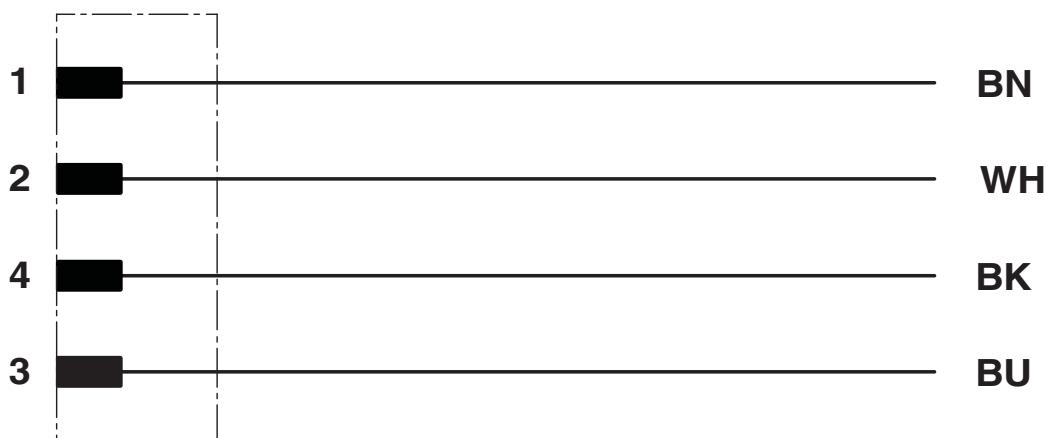


Diagram



I = current strength, T = ambient temperature

Circuit diagram



Contact assignment of the M12 plug

SACC-MCI-M12MS-4CON - Contact carrier

1440931

<https://www.phoenixcontact.com/us/products/1440931>



Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 9.0	EC003557
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

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 2025 © - 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