

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

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 rear mounting, 3-position, Socket, straight, M12, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.75 mm², potted, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Commercial data

Item number	1020174
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHB
GTIN	4055626516240
Weight per piece (including packing)	42.4 g
Weight per piece (excluding packing)	30.252 g
Customs tariff number	85444290
Country of origin	DE

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

Technical data

Notes

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

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.
	<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.
	<ul style="list-style-type: none">• 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.
	<ul style="list-style-type: none">• The products are suitable for applications in plant, controller, and electrical device engineering.
	<ul style="list-style-type: none">• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
	<ul style="list-style-type: none">• Assembled products may not be manipulated or improperly opened.
	<ul style="list-style-type: none">• 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).
	<ul style="list-style-type: none">• When using the product in direct connection with third-party manufacturers, the user is responsible.
	<ul style="list-style-type: none">• For operating voltages > 50 V AC, conductive connector housings must be grounded
	<ul style="list-style-type: none">• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• Only use tools recommended by Phoenix Contact
	<ul style="list-style-type: none">• 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
	<ul style="list-style-type: none">• Ensure that the protective or functional ground has been properly connected.
<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	

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

• 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).

Mounting

Mounting type	Rear mounting (M16 x 1,5)
---------------	---------------------------

Product properties

Product type	Circular connectors (device side)
Application	Signal
Number of positions	3
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material Molding compound	PUR (potted)
---------------------------	--------------

Electrical properties

Rated surge voltage	2.5 kV AC
Nominal voltage U_N	250 V
Nominal current I_N	4 A

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross-section	0.75 mm ²

Mechanical properties

Mechanical data

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

Connector

Connection 1

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

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

Connection 2

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

Cable/line

Cable length	0.5 m
Cable cross section	0.75 mm ²

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-101

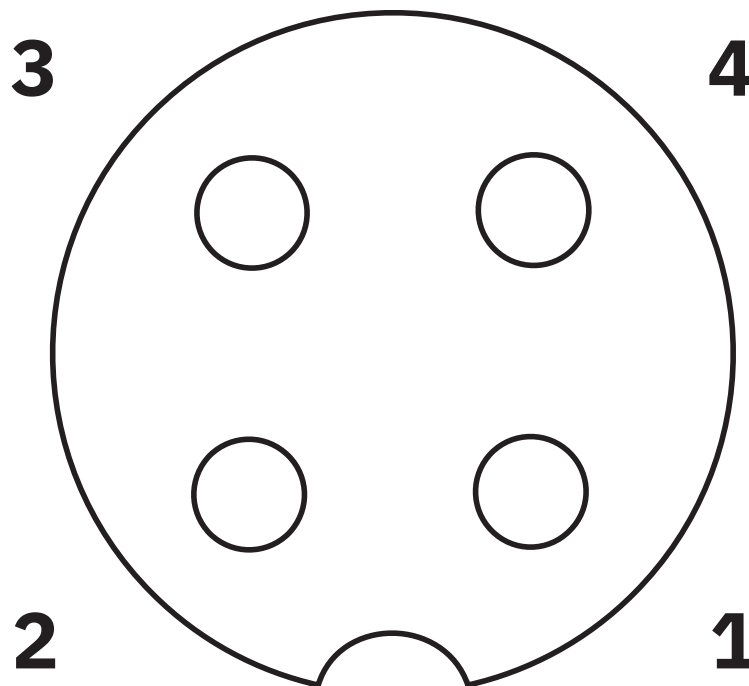
SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting

1020174

<https://www.phoenixcontact.com/us/products/1020174>

Drawings

Schematic diagram



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

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

Classifications

ECLASS

ECLASS-13.0	27440103
ECLASS-15.0	27440103

ETIM

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

UNSPSC

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

SACC-DSI-FS-3CON-M16/0,5-18AWG - Device connector rear mounting



1020174

<https://www.phoenixcontact.com/us/products/1020174>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	7654a713-e212-4ed1-86d5-566ecd968f6a

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