

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

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 front mounting, 8-position, Socket, straight, M12, coding: A, on free cable end, Front mounting, M20 x 1,5, Individual wires, cable length: 0.5 m, 0.25 mm², TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239797

Your advantages

- 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
- 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	1452110
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQCVC
Catalog page	Page 269 (C-2-2013)
GTIN	4046356529198
Weight per piece (including packing)	38.8 g
Weight per piece (excluding packing)	38.8 g
Customs tariff number	85444290
Country of origin	DE

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

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.
General	Contact connection method: Crimp connection

Mounting

Mounting type	Front mounting M20 x 1,5
---------------	--------------------------

Product properties

Product type	Circular connectors (device side)
Application	Signal
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

Data management status

Article revision	06
------------------	----

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Stainless steel
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V
Nominal current I_N	2 A

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

Max. conductor resistance	80 mΩ/m
---------------------------	---------

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.25 mm ²
Tightening torque	3 Nm ... 4 Nm (Installation-side)

Mechanical properties

Mechanical data

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

Connector

Connection 1

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

Connection 2

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

Cable/line

Cable length	0.5 m
Cable type	TPE litz wire
Wire diameter incl. insulation	1.15 mm ±0.07 mm
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Cable cross section	0.25 mm ²
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
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 80 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation) -25 °C ... 85 °C (Cable, flexible installation)

Environmental and real-life conditions

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

Ambient conditions

Degree of protection	IP65/IP67/IP69/IP69K
	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)

Standards and regulations

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

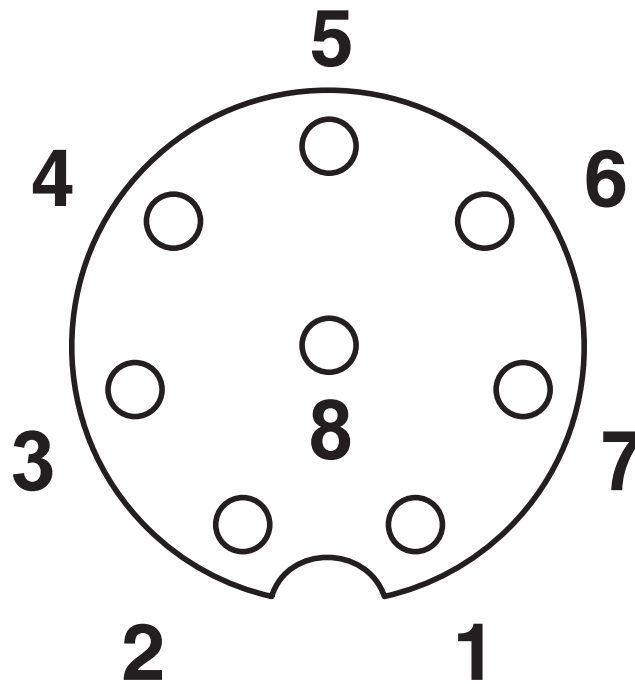
SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting

1452110

<https://www.phoenixcontact.com/pc/products/1452110>

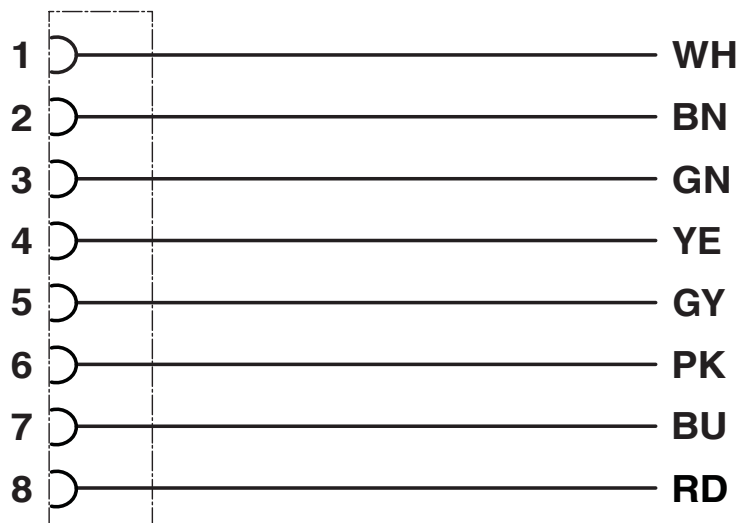
Drawings

Schematic diagram



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

Circuit diagram



SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting





1452110

<https://www.phoenixcontact.com/pc/products/1452110>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1452110>

 UL Recognized Approval ID: E118976-20100522				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	2 A	24 - 24	-

 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	-

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
----------	----------

UNSPSC

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

SACC-E-M12FS-8CON-M20/0,5 VA - Device connector front mounting



1452110

<https://www.phoenixcontact.com/pc/products/1452110>

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	73671f71-9e81-4b3e-b184-cb041186db6f

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com