

# SACC-DSI-M8FS-3CON-M10/0,5 - Device connector rear mounting



1456080

<https://www.phoenixcontact.com/us/products/1456080>

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Device connector rear mounting, 3-position, Socket, straight, M8, Rear mounting, M10, Individual wires, cable length: 0.5 m, 0.25 mm<sup>2</sup>, PVC litz wire

## 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
- Standard pin assignments and codings for signal transmission with a uniform design-in design

## Commercial data

Item number	1456080
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB22
Product key	ABQIDB
Catalog page	Page 34 (C-2-2019)
GTIN	4046356605908
Weight per piece (including packing)	12.8 g
Weight per piece (excluding packing)	9.7 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Mounting

Mounting type	Rear mounting M10 With flat nut
Assembly instructions	With flat nut

### Product properties

Product type	Circular connectors (device side)
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M8

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	HB
Seal material	FKM
Contact material	Cu alloy
Contact surface material	Au
Contact carrier material	PUR/PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires

### Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A
Max. conductor resistance	80 $\Omega/\text{km}$

### Connection data

#### Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.25 mm <sup>2</sup>
Tightening torque	1 Nm ... 1.5 Nm (Installation-side)

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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M8

## Cable/line

Cable length	0.5 m
Cable type	PVC litz wire
Wire diameter incl. insulation	1.5 mm $\pm$ 0.1 mm
Single wire, color	brown, blue, black
Cable cross section	0.25 mm <sup>2</sup>
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.20 mm
AWG signal line	24
Material wire insulation	PVC / UL
Thickness, insulation	0.21 mm
Nominal voltage, cable	450 V
Test voltage, cable	2500 V (Test duration: 1 minute)
Cable resistance	$\geq 80 \Omega/\text{km}$
Cable insulation resistance	$\geq 20 \text{ M}\Omega \cdot \text{km}$
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-10 °C ... 105 °C

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Socket)
	-40 °C ... 105 °C (cable, fixed installation)
	-10 °C ... 105 °C

## Standards and regulations

### M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

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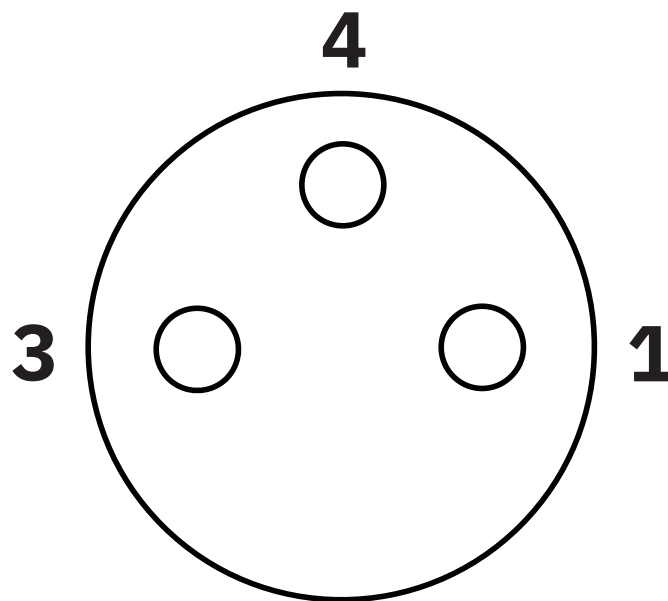


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## Drawings

Schematic diagram





Pin assignment M8 socket, 3-pos., view female side

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Approvals

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<div> <b>cUL Recognized</b> Approval ID: E221474-20070307</div>				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	30 V	4 A	24 - 24	-

<div> <b>UL Recognized</b> Approval ID: E221474-20070307</div>				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	30 V	4 A	24 - 24	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002635
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### 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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