

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^2 , 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 note	With flat nut

Product properties

Circular connectors (device side)
3
1
no
A
M8

Data management status

Article revision	03
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	НВ
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	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Max. conductor resistance	80 Ω/km

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket



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Conductor cross section	0.25 mm ²
Tightening torque	1 Nm 1.5 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

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 ±0.1 mm
Single wire, color	brown, blue, black
Cable cross section	0.25 mm²
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	≥ 80 Ω/km
Cable insulation resistance	≥ 20 MΩ*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



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

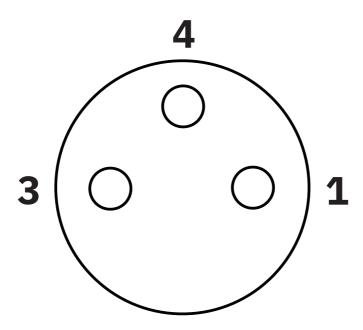


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Drawings

Schematic diagram



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1456080

.71	cUL Recognized Approval ID: E221474-2007030	ized 21474-20070307				
	No	ominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
	30	V	4 A	24 - 24	-	

71	UL Recognized Approval ID: E221474-20070307				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	4 A	24 - 24	-

cULus Recognized



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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ΕΊ	ETIM		
	ETIM 9.0	EC002635	
UNSPSC			

39121400



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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	b13f2508-f05b-4466-807f-aa04cc202b68

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com