

1441697

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Device connector front mounting, 8-position, Socket, straight, M12, coding: A, on free cable end, Front mounting, Square flange, Individual wires, cable length: 0.5 m, 0.25 mm^2 , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239728

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
- · SPEEDCON fast locking system reduces cabling times

Commercial data

Item number	1441697	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	31BAB	
Product key	ABQCFD	
Catalog page	Page 42 (C-2-2019)	
GTIN	4046356533034	
Weight per piece (including packing)	25.12 g	
Weight per piece (excluding packing)	25.12 g	
Customs tariff number	85444290	
Country of origin	DE	



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Technical data

Notes

General	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 Square flange 20 mm side length
Assembly instructions	20 mm side length

Product properties

Product type	Circular connectors (device side)	
Number of positions	8	
Application	Signal	
Shielded	no	
Coding	A	
	A	
Thread type	M12	
Insulation characteristics		
Overvoltage category	II	

3

Material specifications

Degree of pollution

Flammability rating according to UL 94	V0	
Seal material	FKM	
Material of grip body	Zinc die-cast, nickel-plated	
Contact material	CuZn	
Contact surface material	Ni/Au	
Contact carrier material	PA 6.6	
Material for screw connection	Zinc die-cast, nickel-plated	
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



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	57.6 mΩ/m		
nnection 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)		
echanical properties			
Mechanical data			
Insertion/withdrawal cycles	> 100		
nnector			
Connection 1	Socket		
Head design Head cable outlet	Socket		
	straight		
Head thread type	M12		
Coding	A		
Connection 2			
Head design	free cable end		
5			
ble/line	1.00 020.0 5.12		
	0.5 m		
ble/line			
ble/line Cable length	0.5 m		
ble/line Cable length Cable type	0.5 m TPE litz wire		
ble/line Cable length Cable type Wire diameter incl. insulation	0.5 m TPE litz wire 1.15 mm ±0.07 mm		
ble/line Cable length Cable type Wire diameter incl. insulation Single wire, color	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red		
ble/line Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm²		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires		
ble/line Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm 24 TPE		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm 24 TPE 0.21 mm (Core insulation)		
ble/line Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm 24 TPE 0.21 mm (Core insulation) 300 V		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable Test voltage, cable	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm 24 TPE 0.21 mm (Core insulation) 300 V 2000 V AC		
Cable length Cable type Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable Test voltage, cable Cable resistance	0.5 m TPE litz wire 1.15 mm ±0.07 mm brown, blue, white, gray, pink, green, yellow, red 0.25 mm² Tin-plated Cu litz wires 14x 0.15 mm 24 TPE 0.21 mm (Core insulation) 300 V 2000 V AC ≤ 57.6 mΩ/m		

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP67
	IP67
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

M12

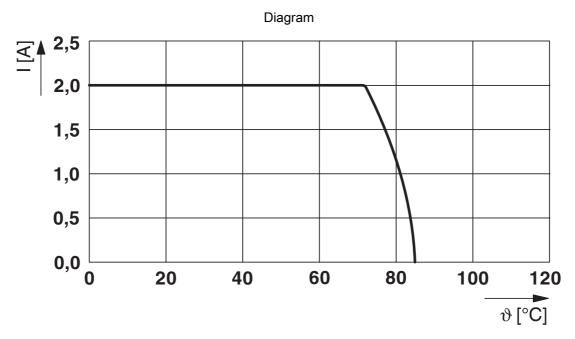
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	



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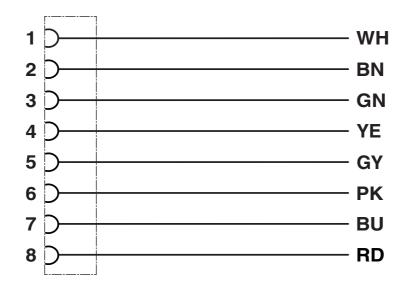
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Drawings



I = current strength, T = ambient temperature

Circuit diagram

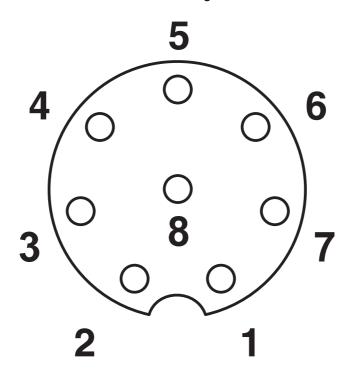




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Schematic diagram



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



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Approvals

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71	UL Recognized Approval ID: E118976-2	0100522			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	2 A	24 - 24	-

c 911 us	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	-



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Classifications

UNSPSC 21.0

ECLASS

27440102
27440116
27440116
EC002635

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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PHOENIX CONTACT AS Strømsveien 344 N-1081 Oslo +47 22 07 68 00 norge@phoenixcontact.com