

1405242

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Device connector front mounting, Universal, 12-position, Socket, straight, M12-Standard, coding: A, on free cable end, Front mounting, Individual wires, cable length: 0.5 m, 0.14 mm², TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238715

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	1405242
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCVB
GTIN	4046356748124
Weight per piece (including packing)	29.3 g
Weight per piece (excluding packing)	29.3 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
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Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	12
Application	Signal
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Ni/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 (AC)
	30 V (DC)
Nominal current I _N	1.5 A



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Max. conductor resistance	142 Ω/km
onnection data	
Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.14 mm²
Tightening torque	3 Nm 4 Nm (Installation-side)
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
onnector	
Connection 1	
Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	A
	A
Connection 2	
	A free cable end
Connection 2	
Connection 2 Head design	
Connection 2 Head design able/line	free cable end
Connection 2 Head design able/line Cable length	free cable end 0.5 m
Connection 2 Head design able/line Cable length Cable type	free cable end 0.5 m TPE litz wire
Connection 2 Head design able/line Cable length Cable type Signal type/category	free cable end 0.5 m TPE litz wire Universal
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet,
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm²
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section Conductor material	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm 26
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm 26 TPE
Connection 2 Head design able/line Cable length Cable type Signal type/category Wire diameter incl. insulation Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm 26 TPE 0.21 mm (Core insulation)
Connection 2 Head design able/line Cable length Cable type Signal type/category 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	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm 26 TPE 0.21 mm (Core insulation) 300 V
Connection 2 Head design able/line Cable length Cable type Signal type/category 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	free cable end 0.5 m TPE litz wire Universal 1.1 mm ±0.05 mm brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue 0.14 mm² Tin-plated Cu litz wires 7x 0.16 mm 26 TPE 0.21 mm (Core insulation) 300 V 2000 V AC



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	-25 °C 85 °C (Cable, flexible installation)	
nvironmental and real-life conditions		
nbient 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)	
ndards and regulations		
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	



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Classifications

ECLASS

	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ΕT	ETIM				
	ETIM 9.0	EC002635			
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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