

1405244

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Device connector front mounting, Universal, 17-position, Socket, straight, M12-Standard, coding: A, on free cable end, Front mounting, Individual wires, cable length: 0.5 m, 0.14 mm^2 , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238717

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	1405244
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCVB
GTIN	4046356748070
Weight per piece (including packing)	35.7 g
Weight per piece (excluding packing)	35 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)
Application	Signal
Sensor type	Universal
Number of positions	17
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

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

142 Ω/km



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	-25 °C 85 °C (Cable, flexible installation)
Environmental and real-life conditions	
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

IEC 61076-2-101

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Standards/specifications

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