

1441600

https://www.phoenixcontact.com/us/products/1441600

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Device connector front mounting, 17-position, Pin, straight, M12-SPEEDCON, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.14 mm², TPE litz wire, potted, this item is expected to be lead-free from Q4 2025 in accordance with RoHS II without exception 6c (Pb < 0. 1%), a lead-free alternative is possible on request in advance

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	1441600
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCED
GTIN	4046356533911
Weight per piece (including packing)	36.2 g
Weight per piece (excluding packing)	34.915 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

Notes on operation	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 (25 mm side length)
Tightening torque	3 Nm 4 Nm (Installation-side)

Product properties

Product type	Circular connectors (device side)
Application	Signal
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 Seal material FKM Material of grip body Contact material Contact surface material Contact carrier material PA 6.6 Material for screw connection V0 FKM Zinc die-cast, nickel-plated CuZn Ni/Au Contact surface material PA 6.6 Zinc die-cast, nickel-plated	Material Molding compound	PUR (potted)
Material of grip body Zinc die-cast, nickel-plated CuZn Contact surface material Contact carrier material PA 6.6 Material for screw connection Zinc die-cast, nickel-plated	Flammability rating according to UL 94	V0
Contact material Contact surface material Contact carrier material PA 6.6 Material for screw connection CuZn Ni/Au PA 6.6 Zinc die-cast, nickel-plated	Seal material	FKM
Contact surface material Contact carrier material PA 6.6 Material for screw connection Zinc die-cast, nickel-plated	Material of grip body	Zinc die-cast, nickel-plated
Contact carrier material PA 6.6 Material for screw connection Zinc die-cast, nickel-plated	Contact material	CuZn
Material for screw connection Zinc die-cast, nickel-plated	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	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



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Nominal current I _N	1.5 A
Max. conductor resistance	142 mΩ/m

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross-section	0.14 mm²
Tightening torque	3 Nm 4 Nm (Installation-side)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

Connection 2

Head design	free cable end	

Cable/line

Cable length	0.5 m
Cable type	TPE litz wire
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
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	3000 V AC (Spark test)
Cable resistance	≤ 142 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)



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Standards/specifications

-25 °C 85 °C (Cable, flexible installation)
IP67
-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)
M12 circular connector

according to IEC 61076-2-101



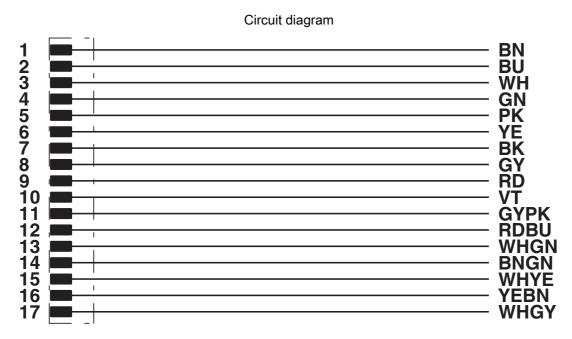
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Drawings

13 3 2 12 4 17 5 14 6 15 7 8 16

Pin assignment M12 male connector, 17-pos., male side view



Contact assignment of the M12 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1441600

e 911 us	cULus Recogniz Approval ID: E221474	ognized 221474-20140616			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		30 V	1.5 A	26	-

7/	UL Recognized Approval ID: E118976-20100522				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		30 V	1.5 A	26	-



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Classifications

ECLASS

	ECLASS-13.0	27440103
	ECLASS-15.0	27440103
E٦	TIM CONTRACTOR OF THE PROPERTY	
	ETIM 9.0	EC003570
	JORGO	
Uľ	NSPSC	
	UNSPSC 21.0	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	de559e98-0731-4bfd-8343-2fdc23347400

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