

1456417

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Device connector front mounting, Universal, 4-position, Pin, straight, M12-SPEEDCON, Acoding, Wave soldering, 0.34 mm², 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

- Easy PCB assembly: one-piece connectors for wave soldering
- · Standard pin assignments for signal and power transmission with a uniform design-in design
- · SPEEDCON fast locking system reduces cabling times

Commercial data

Item number	1456417
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB26
Product key	ABQEGK
GTIN	4046356617024
Weight per piece (including packing)	11.57 g
Weight per piece (excluding packing)	8.08 g
Customs tariff number	85366990
Country of origin	DE



1456417

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Technical data

Notes

col is u col Inf	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 list be taken into consideration.
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Mounting

Mounting type	Front mounting/square flange (20 mm side length)
Tightening torque	Installation-side

Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material Housing	GD-Zn
Material Housing surface	Ni
Material Insulating body	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V
Nominal current I _N	4 A
Max. conductor resistance	57.6 mΩ/m



1456417

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Connection data

Conductor connection

Connection method	Wave soldering
Contact connection type	Pin
Conductor cross-section	0.34 mm²
Tightening torque	Installation-side

Mechanical properties

Mechanical data

Connector

Connection 1

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

Cable/line

Signal type/category	Universal
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Cable cross section	0.34 mm²
Conductor structure signal line	7x 0.25 mm
Thickness, insulation	0.21 mm
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

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

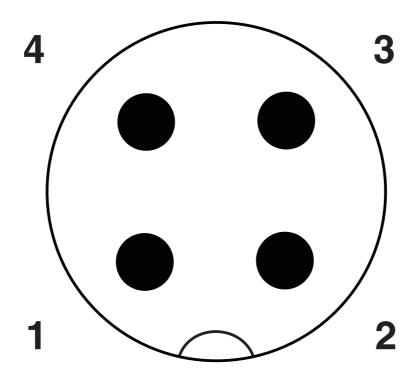


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Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side



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Approvals

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. 91	cUL Recognized Approval ID: E118976-20100522				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	4 A	22	-

UL Recognized Approval ID: E118976-20100522					
	Non	ninal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
	250	V	4 A	22	-

c 91 0s	cULus Recognized Approval ID: E221474-20140616				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		250 V	4 A	-	-



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Classifications

ECLASS

	ECLASS-13.0	27440110	
	ECLASS-15.0	27440110	
ΕI	ГІМ		
	ETIM 9.0	EC003568	
UNSPSC			
	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	48c21c53-4f78-43e9-a303-5e131950bdab

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