

1521591

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Connector, Universal, 4-position, Plug straight M12 SPEEDCON, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

### Your advantages

- · Safe use in the field, thanks to a high degree of protection
- · Save time, thanks to installation with SPEEDCON fast locking system
- · Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

#### Commercial data

Item number	1521591
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CCA
GTIN	4017918953065
Weight per piece (including packing)	15.1 g
Weight per piece (excluding packing)	14.8 g
Customs tariff number	85366990
Country of origin	DE



1521591

https://www.phoenixcontact.com/us/products/1521591

### Technical data

#### Notes

Assembly note	NOTE: Observe the permissible bending radii when routing
	cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream
	of the connector, e.g., by using cable ties.

#### Mounting

Assembly note	AWG 18 wire cross section upon request

### Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

#### **Dimensions**

Dimensional drawing	Ca. 55	
Length	55 mm	
Wrench size, union nut	15 mm	
Wrench size, counter nut	15 mm	
External dimensions		
Outside diameter	4 mm 8 mm	
Housing		
Diameter housing	18.4 mm	
laterial specifications		

## Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA 6
Contact material	CuSn



1521591

https://www.phoenixcontact.com/us/products/1521591

Contact surface material	Ni/Au
Contact carrier material	TPU
Material for screw connection	Zinc die-cast, nickel-plated
Wire insulation material	PVC / PE / PP / rubber

#### Connection data

#### Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.34 mm² 0.75 mm²
Connection cross section AWG	22 18
ightening torque	0.4 Nm (M12 knurl)
	1.5 Nm (Pressure nut)

#### Connection assignment

Contact   Color (signal designation)   Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK

### Electrical properties

Rated surge voltage	4 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

### Mechanical data

	Insertion/withdrawal cycles	≥ 100

### Connector

### Connection 1

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

### Cable/line

Signal type/category	Universal	
External cable diameter	4 mm 8 mm	

#### Environmental and real-life conditions



1521591

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#### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 80 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C 50 °C (During assembly)

### Standards and regulations

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

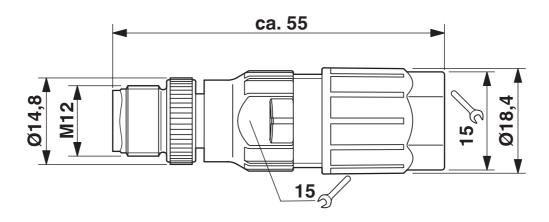


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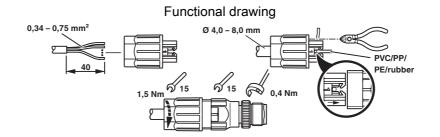


## Drawings

### Dimensional drawing



Plug, M12 x 1, straight

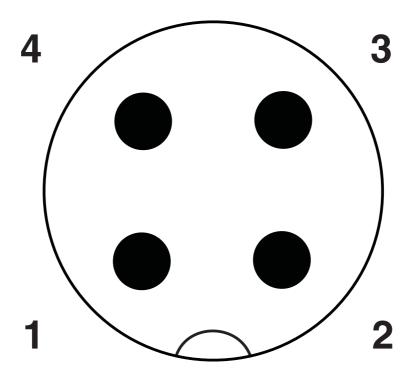




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### Schematic diagram



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



1521591

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### **Approvals**

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. <b>91</b>	<b>cUL Recognized</b> Approval ID: E118976				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		300 V	4 A	-	-

7.1	<b>UL Recognized</b> Approval ID: E118976				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
		300 V	4 A	-	-



1521591

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## Classifications

#### **ECLASS**

	ECLASS-13.0	27440116	
	ECLASS-15.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UNSPSC			

### U

UNSPSC 21.0 39121400



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	0.27 kg CO2e

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