

1506891

https://www.phoenixcontact.com/us/products/1506891

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Connector, Universal, 4-position, Socket straight M8, coding: A, Screw connection, knurl material: Brass, nickel-plated, external cable diameter 3.5 mm ... 5 mm

## Your advantages

- · Safe use in the field, thanks to a high degree of protection
- · Screw connection: proven connection technology for a large selection of different conductors

#### Commercial data

Item number	1506891
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2BAA
Catalog page	Page 17 (C-2-2019)
GTIN	4017918881207
Weight per piece (including packing)	11.41 g
Weight per piece (excluding packing)	11.41 g
Customs tariff number	85366990
Country of origin	DE



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## Technical data

#### Notes

co jec	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in eopardy if the bending forces are too high. Alleviate mechanical oads upstream of the connector, e.g. by using cable ties.
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### Mounting

Assembly instructions	The wires can be connected both with ferrules (without insulation) and without ferrules.
Connection method	Screw connection

## 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

3

### **Dimensions**

Degree of pollution

Material of grip body

Differsions	
Dimensional drawing	38.1 28.1 28.1 28.1
Width	12 mm
Height	12 mm
Length	45 mm
External dimensions	
Outside diameter	3.5 mm 5 mm
Housing	
Diameter housing	12 mm
Material specifications	
Flammability rating according to UL 94	НВ
Seal material	NBR

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Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Brass, nickel-plated

### Connection data

### Conductor connection

Connection method	Screw connection
Connection cross section	0.14 mm <sup>2</sup> 0.5 mm <sup>2</sup> (without ferrule)
	0.14 mm <sup>2</sup> 0.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> 0.5 mm <sup>2</sup> (solid)
Connection cross section AWG	26 20 (without ferrule)
Stripping length of the individual wire	4 mm
Tightening torque	0.2 Nm (M8 knurl)
	0.5 Nm (Connector with coupling sleeve)
	0.3 Nm 0.4 Nm (Pressure screw for outer cable diameter 3 mm 4 mm)
	0.8 Nm 1 Nm (Pressure screw in the case of external cable diameter 4 mm 5 mm)
	0.1 Nm (Screw terminal blocks)

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	4 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
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### Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M8
Coding	A

#### Cable/line

Signal type/category	Universal
Stripping length of the individual wire	4 mm



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### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)

### Standards and regulations

### M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

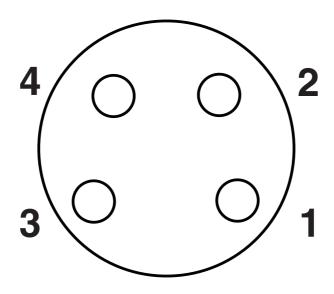


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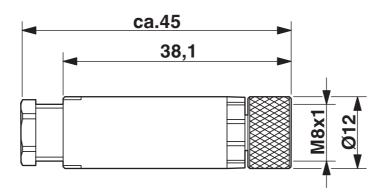
## Drawings

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

Dimensional drawing



Socket M8 x 1, straight



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1506891

<u> </u>	<b>UL Listed</b> Approval ID: FILE E 221474				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	4 A	-	-

• <u>®</u>	<b>cUL Listed</b> Approval ID: FILE E 22147	74			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	4 A	-	-

**cULus Listed** 



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## Classifications

UNSPSC 21.0

### **ECLASS**

ECLASS-1	1.0	27440102
ECLASS-1	2.0	27440116
ECLASS-1	3.0	27440116
ETIM		
ETIM 9.0		EC002635
UNSPSC		

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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#### Accessories

SACC-M 8-SET/2,2-3,5 - Connector

1436945

https://www.phoenixcontact.com/us/products/1436945



Sensor/actuator connector, accessories, pressure screw and seal, for unshielded M8 connector, cable diameter 2.2 mm - 3.5 mm

### PROT-M 8 MS-PA-CHAIN - Screw plug

1430860

https://www.phoenixcontact.com/us/products/1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets





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## SAC-4P-100,0-PUR/0,25 - Cable reel

1501692

https://www.phoenixcontact.com/us/products/1501692



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

### SAC-4P-100,0-PUR/0,34 - Cable reel

1501663

https://www.phoenixcontact.com/us/products/1501663



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m



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### TSD 02 SAC - Torque screwdriver

1208487

https://www.phoenixcontact.com/us/products/1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

#### SACC BIT M8-D12 - Tool

1208474

https://www.phoenixcontact.com/us/products/1208474



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive



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### TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

### TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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