

1408991

https://www.phoenixcontact.com/gb/products/1408991

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Power connector, 4-position, Socket angled M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 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	1408991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CAA
Product key	BF2CAA
Catalog page	Page 22 (C-2-2019)
GTIN	4046356885119
Weight per piece (including packing)	28.21 g
Weight per piece (excluding packing)	28.76 g
Customs tariff number	85366990
Country of origin	DE



1408991

https://www.phoenixcontact.com/gb/products/1408991

### Technical data

#### Notes

General	Strip 22 mm off the cable sheath, strip 7 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Length of conductor with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
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	The connector pin assignment can be rotated 90° to the cable
	outlet

#### Product properties

Product type	Circular connector (cable-side)
Application	Power supply
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg11

#### Data management status

Article revision	00
------------------	----

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

#### Dimensions

Dimensional drawing	19 19 19 19 19 19 19 19 19 19 19 19 19 1
Length	39 mm
External dimensions	
Outside diameter	8 mm 10 mm
Housing	
Diameter housing	20.2 mm



1408991

https://www.phoenixcontact.com/gb/products/1408991

### Material specifications

Flammability rating according to UL 94	V0
Seal material	Viton
	NBR
Material of grip body	PA
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

#### Connection data

#### Conductor connection

Connection method	Screw connection
Connection cross section	0.75 mm <sup>2</sup> 1.5 mm <sup>2</sup> (without ferrule)
	0.75 mm <sup>2</sup> 1.5 mm <sup>2</sup> (with ferrule)
	0.75 mm <sup>2</sup> 1.5 mm <sup>2</sup> (solid)
Connection cross section AWG	18 16 (without ferrule)
	16 18 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	1.5 Nm 2 Nm (Pressure screw with sleeve housing)
	0.4 Nm (Screw plug insert with sleeve housing as far it will go)
	0.2 Nm (Screw terminal blocks)

#### Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	8 A (when using 1.5 mm² conductors)

#### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles > 10	00
----------------------------------	----

#### Connector

#### Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	A



1408991

https://www.phoenixcontact.com/gb/products/1408991

Standards/specifications

#### Cable/line

	Stripping length of the individual wire	5 mm	
En	Environmental and real-life conditions		
,	Ambient conditions		
	Degree of protection	IP67	
	Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)	
Standards and regulations			
	Standard designation	M12 connector	

IEC 61076-2-101

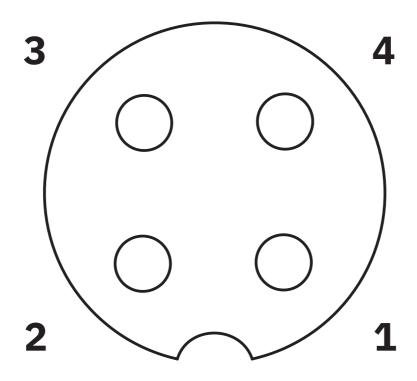


1408991

https://www.phoenixcontact.com/gb/products/1408991

## Drawings

#### Schematic diagram



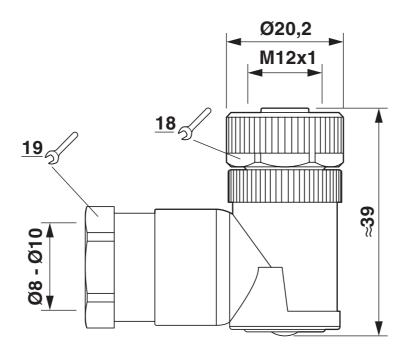
Pin assignment M12 socket, 4-pos., A-coded, view female side



1408991

https://www.phoenixcontact.com/gb/products/1408991

### Dimensional drawing



M12 x 1 socket, straight



1408991

https://www.phoenixcontact.com/gb/products/1408991

### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1408991

. <b>91</b>	<b>cUL Recognized</b> Approval ID: FILE E 2214	174			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	4 A	-	-

<b>7.1</b>	<b>UL Recognized</b> Approval ID: FILE E 2214	.74			
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		250 V	4 A	-	-

EAC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00511

cULus Recognized



1408991

https://www.phoenixcontact.com/gb/products/1408991

## Classifications

#### **ECLASS**

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UNSPSC			

# U

UNSPSC 21.0	39121400
-------------	----------



1408991

https://www.phoenixcontact.com/gb/products/1408991

### 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	8eda3e49-4627-4828-bc1c-b6d459899d55

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk