

1408991

https://www.phoenixcontact.com/no/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	31BBFS	
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/no/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.	
General	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.	

## Mounting

Assembly instructions	The connector pin assignment can be rotated 90° to the cable
	outlet

### Product properties

Product type	Circular connector (cable-side)		
Number of positions	4		
Application	Power supply		
No. of cable outlets	1		
Shielded	no		
Coding	A		
	A		
Cable outlet	angled		
Pg screw connection	Pg11		
Insulation characteristics			
Overvoltage category	II		
Degree of pollution	3		

#### **Dimensions**

Dimensional drawing	19 18 18 18 18 18 18 18 18 18 18 18 18 18
Length	39 mm
External dimensions	
Outside diameter	8 mm 10 mm
Housing	
Diameter housing	20.2 mm

## Material specifications



1408991

https://www.phoenixcontact.com/no/products/1408991

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 mm² 1.5 mm² (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 > 100	
-----------------------------------	--

#### Connector

#### Connection 1

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

#### Cable/line



1408991

https://www.phoenixcontact.com/no/products/1408991

	Stripping length of the individual wire	5 mm			
En	Environmental and real-life conditions				
A	Ambient conditions				
	Degree of protection	IP67			
	Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)			
Sta	Standards and regulations				
	Standard designation	M12 connector			
	Standards/specifications	IEC 61076-2-101			

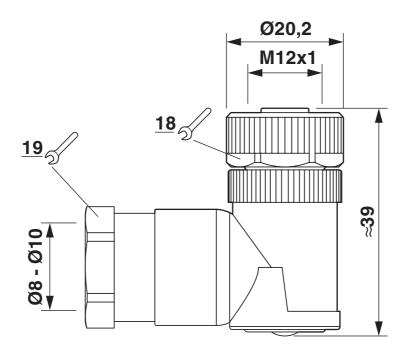


1408991

https://www.phoenixcontact.com/no/products/1408991

## Drawings

### Dimensional drawing



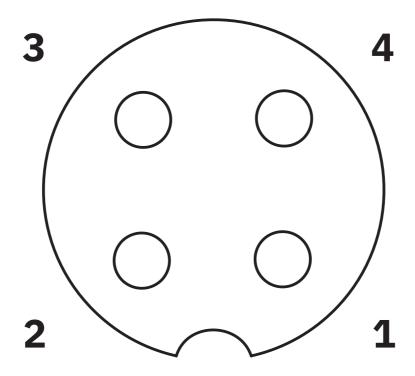
M12 x 1 socket, straight



1408991

https://www.phoenixcontact.com/no/products/1408991

## Schematic diagram



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



1408991

https://www.phoenixcontact.com/no/products/1408991

## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/no/products/1408991

CUL Recognized 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>
		250 V	4 A	-	-

<b>71</b>	UL Recognized Approval ID: FILE E 221474					
		Nominal voltage $U_N$	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/no/products/1408991

## Classifications

UNSPSC 21.0

#### **ECLASS**

202.00				
	ECLASS-11.0	27440102		
	ECLASS-12.0	27440116		
	ECLASS-13.0	27440116		
ETIM				
	ETIM 9.0	EC002635		
UNSPSC				

39121400



1408991

https://www.phoenixcontact.com/no/products/1408991

## 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"

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

PHOENIX CONTACT AS Strømsveien 344 N-1081 Oslo +47 22 07 68 00 norge@phoenixcontact.com