

1408991

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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	BF30
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



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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

le-side)

Data management status

Article revision	00
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	19 18 8 9
Length	39 mm
External dimensions	
Outside diameter	8 mm 10 mm
Housing	
Diameter housing	20.2 mm



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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 ² 1.5 mm ² (without ferrule)
	0.75 mm ² 1.5 mm ² (with ferrule)
	0.75 mm ² 1.5 mm ² (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_N	250 V AC
	250 V DC
Nominal current I _N	8 A (when using 1.5 mm² conductors)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

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



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Standards/specifications

Cable/line

Co	able/iiile		
	Stripping length of the individual wire	5 mm	
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

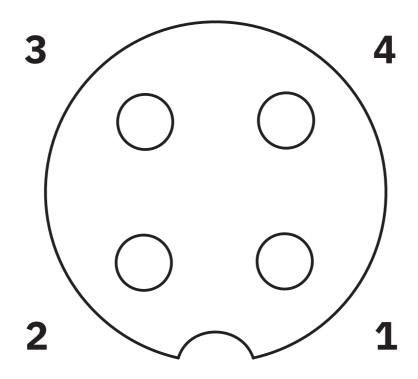


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Drawings

Schematic diagram



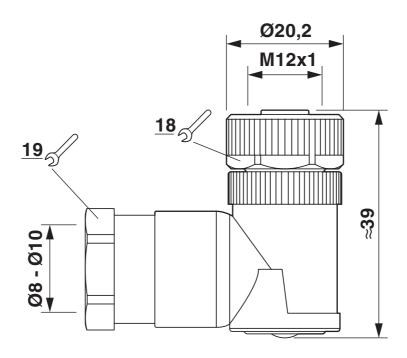
Pin assignment M12 socket, 4-pos., A-coded, view female side



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Dimensional drawing



M12 x 1 socket, straight



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Approvals

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

. 91	cUL Recognized Approval ID: FILE E 2214	174			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	4 A	-	-

71	UL Recognized Approval ID: FILE E 221	474			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		250 V	4 A	-	-

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

cULus Recognized



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Classifications

ECLASS

UNSPSC 21.0

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

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	8eda3e49-4627-4828-bc1c-b6d459899d55

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