

1404415

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Power connector, 4-position, Plug straight 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	1404415
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CAA
Catalog page	Page 22 (C-2-2019)
GTIN	4046356694476
Weight per piece (including packing)	24.94 g
Weight per piece (excluding packing)	24 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.
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.

Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	19 2
Width	20 mm
Height	20 mm
Length	65.5 mm
External dimensions	
Outside diameter	8 mm 10 mm

Catolice diameter	0 mm 10 mm
He dec	
Housing	

20 mm

Material specifications

Diameter housing

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



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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

Connector

Connection 1

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

Cable/line

	Stripping length of the individual wire	5 mm
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67



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Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)
Standards and regulations	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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Classifications

UNSPSC 21.0

ECLASS

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

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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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