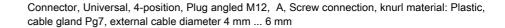


1681091

https://www.phoenixcontact.com/in/products/1681091

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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	1681091
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CAA
Catalog Page	Page 22 (C-2-2019)
GTIN	4017918157494
Weight per Piece (including packing)	18.95 g
Weight per Piece (excluding packing)	18.3 g
Customs tariff number	85366990
Country of origin	DE



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Technical Data

Notes

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
Connection method	Screw connection

Product properties

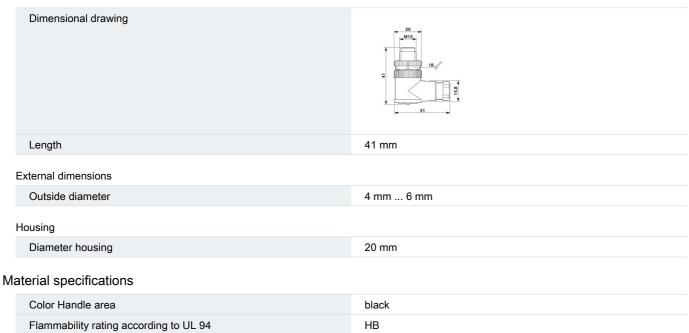
4
Universal
1
no
A
angled
Pg7

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Seal material



NBR



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Material of grip body	PA
Contact material	CuZn
Contact surface material	CuSnZn
Contact carrier material	PA
Material for screw connection	Plastic

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm ² 0.75 mm ² (without ferrule)
	0.14 mm ² 0.75 mm ² (with ferrule)
	0.25 mm ² 0.75 mm ² (solid)
Connection cross section AWG	24 18 (without ferrule)
	26 20 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.2 Nm (Screw terminal blocks)
	0.8 Nm 1 Nm (Pressure screw with sleeve housing)

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V AC
	250 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 50
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Connector

Connection 1

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

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	5 mm

Environmental and real-life conditions



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Ambient conditions

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

Standards and regulations

Standards/specifications	IEC 61076-2-101
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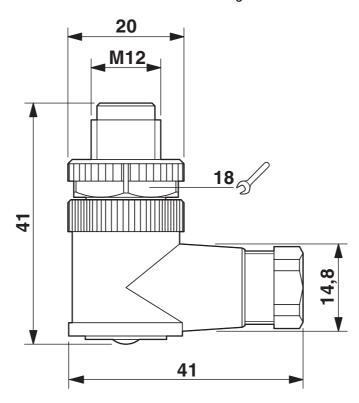


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Drawings

Dimensional drawing

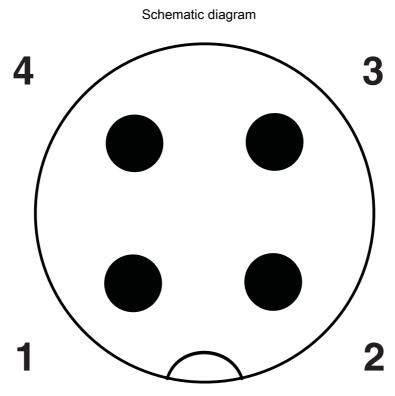


M12 x 1 male plug, angled

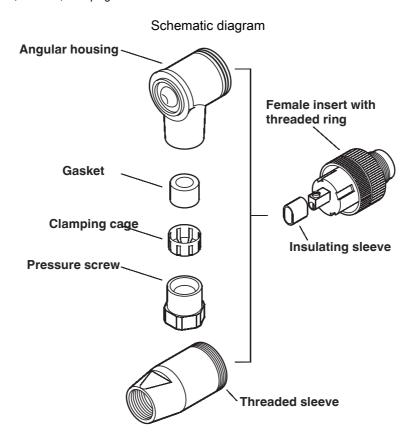


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Pin assignment M12 plug, 4-pos., A-coded, view plug side

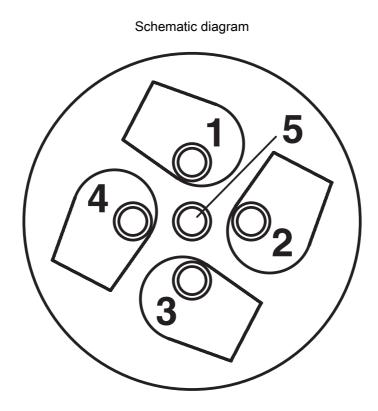


Male/Female M12



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Cable connection side M12 (screw connection)



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Approvals

.71	cUL Recognized Approval ID: FILE E 221474				
		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



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Classifications

UNSPSC 21.0

ECLASS

E	CLASS-11.0	27440102
E	CLASS-12.0	27440116
E	CLASS-13.0	27440116
ETIM		
E.	8.0 MIT	EC002635
UNSF	PSC	

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-M12-SET/2,5-3,5 - Connector

1436505

https://www.phoenixcontact.com/in/products/1436505



Sensor/actuator connector, accessories, pressure screw and Pg7 seal, for unshielded M12 connector, cable diameter 2.5 mm - 3.5 mm

TSD 04 SAC - Torque screwdriver

1208429

https://www.phoenixcontact.com/in/products/1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors



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TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/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/in/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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SACC BIT M12-D20 - Tool

1208445

https://www.phoenixcontact.com/in/products/1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive



PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

https://www.phoenixcontact.com/in/products/1430873

 $\,$ M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs





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

1501692

https://www.phoenixcontact.com/in/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/in/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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SAC-4P-100,0-186/0,75 - Cable reel

1457461

https://www.phoenixcontact.com/in/products/1457461



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

A 0,25-5-Ferrule

3202465

https://www.phoenixcontact.com/in/products/3202465



Ferrule, length: 5 mm, color: silver



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CRIMPFOX 6H - Crimping pliers

1212046

https://www.phoenixcontact.com/in/products/1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm^2 ... 6 mm^2 , unlockable pressure lock, lateral entry

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/in/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

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