1681130

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Connector, Universal, 4-position, Socket angled M12, A, Screw connection, knurl material: Plastic, cable gland Pg7, external cable diameter 4 mm ... 6 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	1681130	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales Key	BF2	
Product Key	BF2CAA	
Catalog Page	Page 22 (C-2-2019)	
GTIN	4017918157395	
Weight per Piece (including packing)	15.9 g	
Weight per Piece (excluding packing)	15.9 g	
Customs tariff number	85366990	
Country of origin	DE	

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Technical Data

Notes

Assembly instruction:	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 mechanica loads upstream of the connector, e.g. by using cable ties.
ounting	
Assembly instructions	The connector pin assignment can be rotated 90° to the cable outlet
roduct properties	
Product type	Circular connector (cable-side)
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg7

Insulation characteristics

Contact material

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	35 mm
External dimensions	
Outside diameter	4 mm 6 mm
Housing	
Diameter housing	20 mm
Material specifications	
Color Handle area	black
Flammability rating according to UL 94	НВ
Seal material	NBR
Material of grip body	PA

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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 mm² 0.75 mm² (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

Connector

Connection 1

Head design	Socket
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

Ambient conditions	
Degree of protection	IP67

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Ambient temperature (operation)

-40 °C ... 85 °C (Plug / socket)

Standards and regulations

M12

Standards/specifications

IEC 61076-2-101

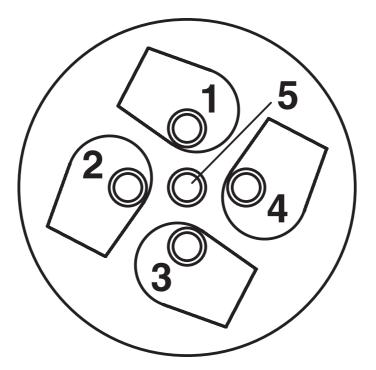
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Drawings

Schematic diagram

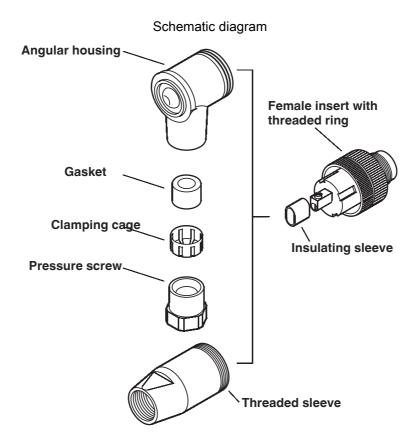


Cable connection side M12 (screw connection)



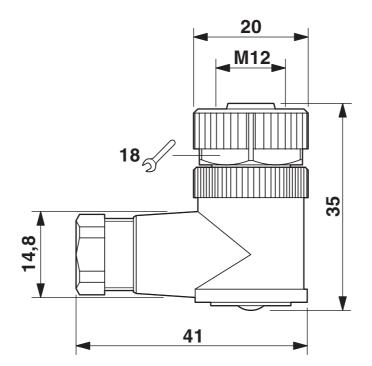
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Male/Female M12

Dimensional drawing

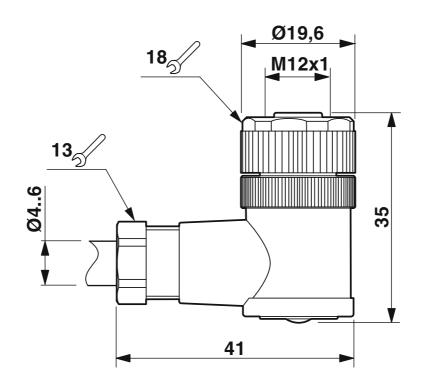




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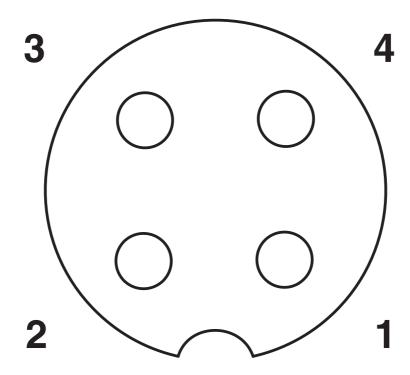
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Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



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



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Approvals

Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ² 250 V 4 A - - VL Recognized Approval ID: FILE E 221474 Value Value Value Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ² 10 V Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ²	.	cUL Recognized Approval ID: FILE E 221	474			
UL Recognized Approval ID: FILE E 221474 Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ²			Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Approval ID: FILE E 221474 Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ²			250 V	4 A	-	-
Approval ID: FILE E 221474 Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ²						
Approval ID: FILE E 221474 Nominal Voltage U _N Nominal Current I _N Cross Section AWG Cross Section mm ²						
	71		474			
250 // 4 4			Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
			250 V	4 A	-	-



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



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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

	ETIM 8.0	EC002635		
UNSPSC				
	UNSPSC 21.0	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 \mbox{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 MS-PA-CHAIN - Screw plug

1430899 https://www.phoenixcontact.com/in/products/1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



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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

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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

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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 mm² ... 6 mm², 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 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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