

1404410

https://www.phoenixcontact.com/us/products/1404410

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Connector, Universal, 12-position, shielded, Plug straight M12, coding: A, Solder connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8

Your advantages

- Safe use in the field, thanks to a high degree of protection
- · Save space with high-pos. connectors
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1404410
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	BF2CGA
Catalog page	Page 26 (C-2-2019)
GTIN	4046356693837
Weight per piece (including packing)	41 g
Weight per piece (excluding packing)	41 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

co jec	NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in eopardy if the bending forces are too high. Alleviate mechanical oads upstream of the connector, e.g. by using cable ties.
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Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	12
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight
Pg screw connection	Pg9
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	7.000 1.000
Width	20.2 mm
Height	20.2 mm
Length	62 mm
External dimensions	
Outside diameter	6 mm 8 mm
Housing	
Diameter housing	20.2 mm

Material specifications

Flammability rating according to UL 94	НВ
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated



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Connection data

Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm ² 0.25 mm ² (without ferrule)
	0.08 mm ² 0.25 mm ² (solid)
Connection cross section AWG	28 24 (without ferrule)
Stripping length of the individual wire	4 mm
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm 1 Nm (Pressure screw)

Electrical properties

Rated surge voltage	0.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	1.5 A (up to 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100	
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Connector

Connection 1

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

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	4 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
Standards/specifications	IEC 61076-2-101

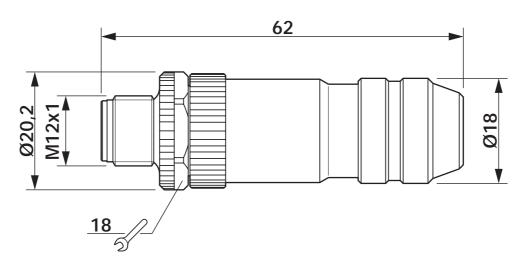


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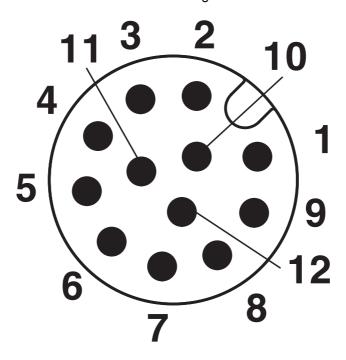
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



Pin assignment of M12 male connector, 12-pos., A-coded, view of pin side

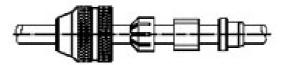


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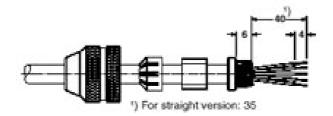
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Functional drawing

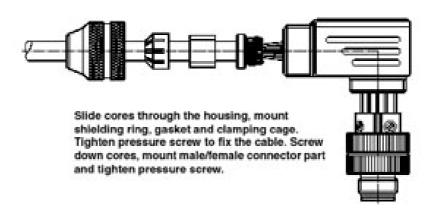
Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404410

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		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1 A	-	-

UL Recognized Approval ID: FILE E 221474					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1 A	-	-

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

EC	CLASS-11.0	27440102	
EC	CLASS-12.0	27440116	
EC	CLASS-13.0	27440116	
ETIM			
ET	TIM 9.0	EC002635	
UNSPSC			

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

PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

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

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



TSD 04 SAC - Torque screwdriver

1208429

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



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



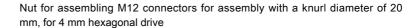
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SACC BIT M12-D20 - Tool

1208445

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





TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/us/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm



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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/us/products/1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

WIREFOX SAC - Stripping tool

1212623

https://www.phoenixcontact.com/us/products/1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \varnothing of 4.4 to 7 mm, any stripping length



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VS-CABLE-STRIP-VARIO - Stripping tool

1657407

https://www.phoenixcontact.com/us/products/1657407

Stripping tool, for the multi-level stripping of shielded cables



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