

1404412

https://www.phoenixcontact.com/us/products/1404412

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Connector, Universal, 12-position, shielded, Plug angled 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	1404412
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	BF2CGA
Catalog page	Page 26 (C-2-2019)
GTIN	4046356693851
Weight per piece (including packing)	62.7 g
Weight per piece (excluding packing)	62.7 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

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.
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Mounting

Assembly note	The connector pin assignment can be rotated 90° to the cable
	outlet

Product properties

ole-side)

Data management status

Article revision	02
Article revision	02

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	020.2 M12x1 18 0 0
Width	20.2 mm
Height	55 mm
Length	41.8 mm
External dimensions	
Outside diameter	6 mm 8 mm
Housing	
Diameter housing	20.2 mm



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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

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	angled
Head thread type	M12
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	4 mm



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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



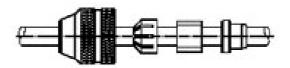
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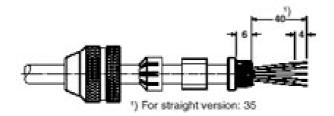
Drawings

Functional drawing

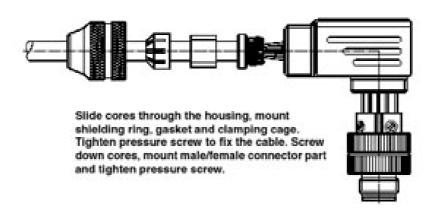
Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



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

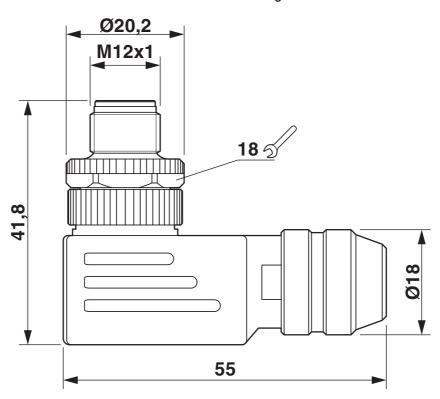




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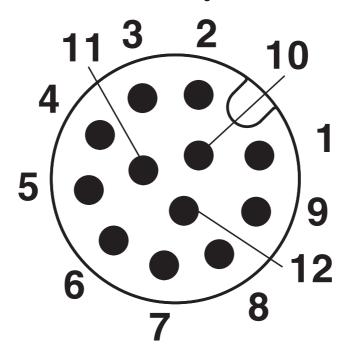
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Dimensional drawing



M12 x 1 male plug, angled, shielded

Schematic diagram



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



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404412

cUL 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	-	-

<i>7</i> 1	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	-	-

cUL us Recognized	



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Classifications

ECLASS

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UNSPSC			
	UNSPSC 21.0	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	f2cd5bf0-ca5e-4592-befd-fb45104b5c9b

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