

1404419

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

Your advantages

- · Safe use in the field, thanks to a high degree of protection
- · Save space with high-pos. connectors

Commercial data

Item number	1404419
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	BF2CGA
Catalog page	Page 26 (C-2-2019)
GTIN	4046356694513
Weight per piece (including packing)	19.52 g
Weight per piece (excluding packing)	19.52 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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Product properties

Circular connector (cable-side)
Universal
12
1
no
A
straight
Pg9

Data management status

Article revision 01

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	19 ₁ 11 ₁ 16 ₁
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	PA
Contact material	CuZn



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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 nut with coupling sleeve)

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

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



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Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-101	

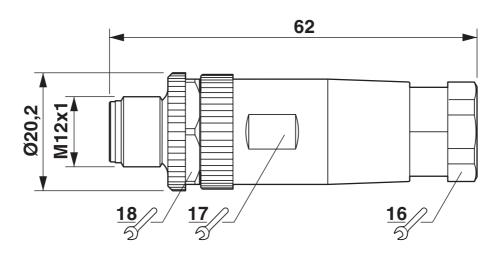


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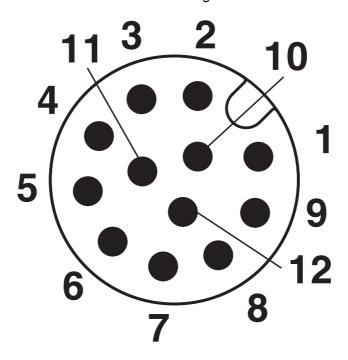
Drawings

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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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404419

.71	cUL Recognized Approval ID: FILE E 2214	.74			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	1 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
		30 V	1 A	-	-

cULus Recognized



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-1	1.0	27440102
ECLASS-1	2.0	27440116
ECLASS-1	3.0	27440116
ETIM		
ETIM 9.0		EC002635
UNSPSC		

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	0ab79a53-3c4f-43dc-ba1a-906b6a3fd93c

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com