

1417877

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Connector, 5-position, shielded, Socket straight M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 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
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1417877
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CBA
GTIN	4055626129303
Weight per piece (including packing)	57.63 g
Weight per piece (excluding packing)	57.63 g
Customs tariff number	85366990
Country of origin	HU



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Technical data

Notes

Product properties

Product type	Circular connector (cable-side)
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight
Pg screw connection	Pg11

Insulation characteristics

insulation characteristics	
Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
	57
Length	57 mm
Wrench size, union nut	16 mm
External dimensions	
Outside diameter	8 mm 10 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	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)
	1 Nm 1.4 Nm (Pressure nut with 8 mm 12 mm external cable diameter)

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

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

Cable/line

Stripping length of the individual wire	5 mm	
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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations



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

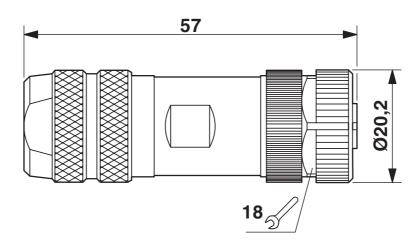
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Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

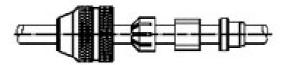
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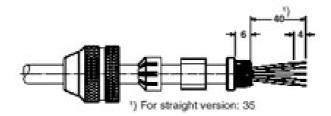


Functional drawing

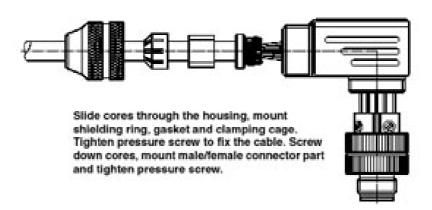
Assembly steps for M 12 male/female connector and conductor



Slide parts onto the conductor



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





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Schematic diagram

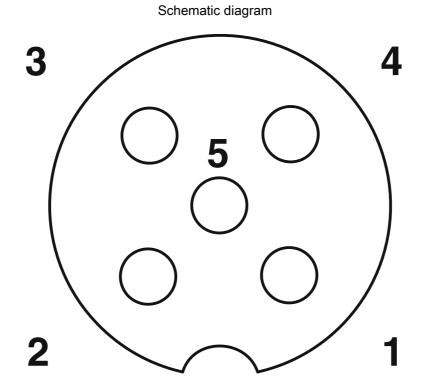
5

0

4

3

Cable connection side M12 (screw connection)



Pin assignment M12 socket, 5-pos., A-coded, socket side view



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Classifications

UNSPSC 21.0

ECLASS

	501.400.40.a			
	ECLASS-13.0	27440116		
	ECLASS-15.0	27440116		
ETIM				
	ETIM 9.0	EC002635		
UNSPSC				

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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	2f34bca8-5c26-4537-b6f2-21b05499d94f
EF3.0 Climate Change	
CO2e kg	1.933 kg CO2e

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