

1681127

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Connector, Universal, 4-position, Socket straight M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, 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	1681127
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CAA
GTIN	4017918157456
Weight per piece (including packing)	25.2 g
Weight per piece (excluding packing)	24.57 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

Product type	Circular connector (cable-side)	
Sensor type	Universal	
Number of positions	4	
No. of cable outlets	1	
Shielded	no	
Coding	A	
Cable outlet	straight	
Pg screw connection	Pg7	
Insulation characteristics		
Overvoltage category	II	

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### Dimensions

Degree of pollution

Dimensional drawing	54
Width	20 mm
Height	20 mm
Length	54 mm
External dimensions	
Outside diameter	4 mm 6 mm
Housing	
Diameter housing	20 mm

### Material specifications

Flammability rating according to UL 94	НВ
Seal material	NBR
Material of grip body	PA
Contact material	CuZn
Contact surface material	CuSnZn
Contact carrier material	PA



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Material for screw connection	Zinc die-cast, nickel-plated
Connection data	
Conductor connection	
Connection method	Screw connection
Connection cross section	0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (without ferrule)
	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (with ferrule)
	0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (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 <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A
Mechanical properties	
Mechanical data	N 50
Insertion/withdrawal cycles	≥ 50
Connector	
Connection 1	
Head design	Socket
Head cable outlet	straight
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
Ambient temperature (operation) (male connector/female	-40 °C 85 °C (Plug / socket)
connector)	



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#### Standards and regulations

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

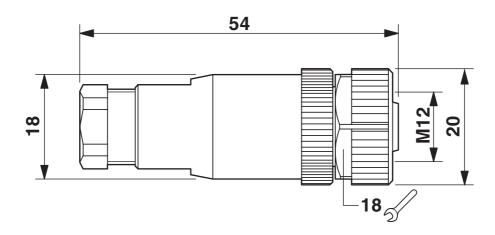


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### Drawings

#### Dimensional drawing



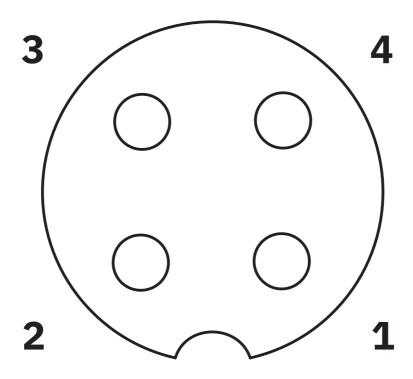
M12 x 1 socket, straight



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#### Schematic diagram

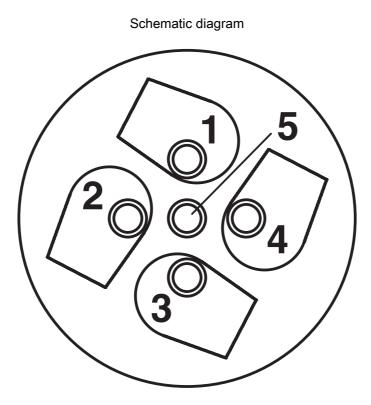


Pin assignment M12 socket, 4-pos., A-coded, view female side

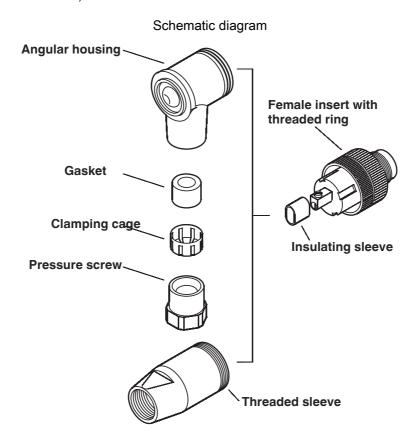


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Cable connection side M12 (screw connection)



Male/Female M12



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1681127

CUL Recognized Approval ID: FILE E 221474				
	Nominal vol	tage U <sub>N</sub> Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	250 V	4 A	-	-

UL Recognized Approval ID: FILE E 221474					
	No	ominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine					
	250	0 V	4 A	-	-



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27440116
	ECLASS-15.0	27440116
ΕΊ	ГІМ	
	ETIM 9.0	EC002635
U	NSPSC	
	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	de05faf5-28cb-4fc4-8e8a-d8c4e88572d9

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