

1429169

https://www.phoenixcontact.com/us/products/1429169

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### Your advantages

- Safe use in the field, thanks to a high degree of protection
- · Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

#### Commercial data

Item number	1429169
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF31
Product key	AF2CDM
GTIN	4046356323123
Weight per piece (including packing)	55.1 g
Weight per piece (excluding packing)	55.1 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.

#### Mounting

Assembly note	The connector pin assignment can be rotated 45° to the cable
	outlet

### Product properties

Product type	Circular connector (cable-side)
Application	Data
Sensor type	VARAN
Number of positions	6
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	angled
Insulation characteristics	
Overvoltage category	II .
Degree of pollution	3

#### Dimensions

### External dimensions

Outside diameter	4 mm 8 mm
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	Neoprene
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6
Material for screw connection	Brass, nickel-plated

#### Connection data

#### Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm² 0.34 mm²
Connection cross section AWG	26 22



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Standards/specifications

Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)
Electrical properties	
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A
Mada aniad anamatica	
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	≥ 100
Connector	
Connection 1	
Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	A
Coding	,
Cable/line	
Signal type/category	VARAN
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP67
Ambient temperature (operation) (male connector/female	-40 °C 85 °C
connector)	
Standards and regulations	
M12	
Standard designation	M12 connector

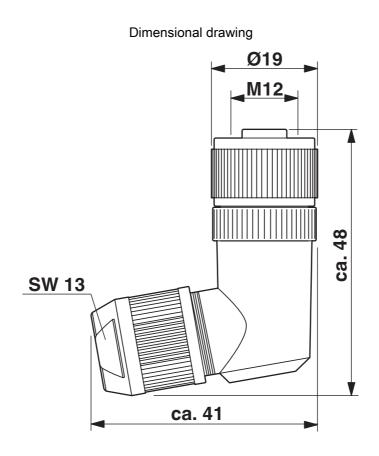
according to IEC 61076-2-101



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### Drawings



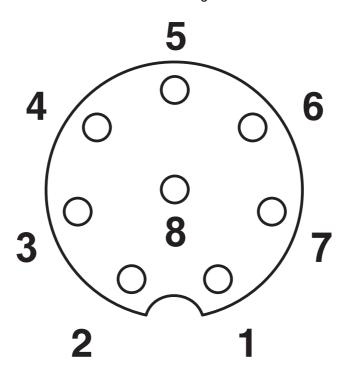
M12 x 1 socket, angled, shielded



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### Schematic diagram



M12 socket pin assignment, 6-pos., socket side view



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### **Approvals**

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EAC

Approval ID: RU C-DE.Al30.B.01102



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### Classifications

#### **ECLASS**

	ECLASS-13.0	27440116
	ECLASS-15.0	27440116
ETIM		
	ETIM 9.0	EC002635
	ICDCC	
UNSPSC		
	UNSPSC 21.0	39121400



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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