

1553653

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Data connector, Ethernet CAT5 (1 Gbps), 8-position, shielded, Plug angled M12, coding: A, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

### 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	1553653
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CDI
GTIN	4046356158824
Weight per piece (including packing)	44.3 g
Weight per piece (excluding packing)	45.42 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	Ethernet
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	angled
nsulation characteristics	
Overvoltage category	

3

### Dimensions

Degree of pollution

Dimensional drawing	S SW 13
Length	50 mm
External dimensions	
Outside diameter	4 mm 8 mm
Housing	
Diameter housing	19 mm
laterial specifications	

### N

Flammability rating according to UL 94	V0
Seal material	Neoprene
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn



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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 mm <sup>2</sup> 0.34 mm <sup>2</sup> (solid)
	0.14 mm <sup>2</sup> 0.34 mm <sup>2</sup> (solid)
Connection cross section AWG	26 22
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

### Electrical properties

Rated surge voltage	0.8 kV
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
Transmission speed	1 Gbps

### Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100

### Connector

### Connection 1

Head design	Plug
Head cable outlet	angled
Head thread type	M12
Coding	A

### Cable/line

Signal type/category	Ethernet CAT5 (based on IEC 11801), 1 Gbps

### Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C 50 °C



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### Standards and regulations

### M12

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



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# Drawings

# Dimensional drawing Ø19 M12 SW 13

ca. 41

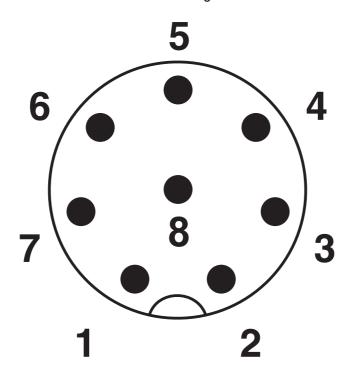
M12 x 1 male plug, angled, shielded



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Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side



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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	
LINODOO			
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.)	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)(CAS: 3147-75-9)
SCIP	24791fef-9e4a-4b5c-b8cd-f33df895e70b
EF3.0 Climate Change	
CO2e kg	0.525 kg CO2e

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