

SACC-M12MRD-4Q SH PN - Data connector



1554539

<https://www.phoenixcontact.com/us/products/1554539>

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Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, 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	1554539
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CDN
GTIN	4046356166225
Weight per piece (including packing)	38.5 g
Weight per piece (excluding packing)	38.5 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Mounting

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

Product type	Circular connector (cable-side)
Application	Data
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	D
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 AWG	23 ... 22
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

Connection assignment

Contact Color (signal designation) Contact (optional)	1 (Plug) = YE (TD+)
	3 (Plug) = OG (TD-)
	2 (Plug) = WH (RD+)

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4 (Plug) = BU (RD-)

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	1.75 A
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

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

Cable/line

Signal type/category	PROFINET CAT5 (based on IEC 11801), 100 Mbps
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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

M12

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

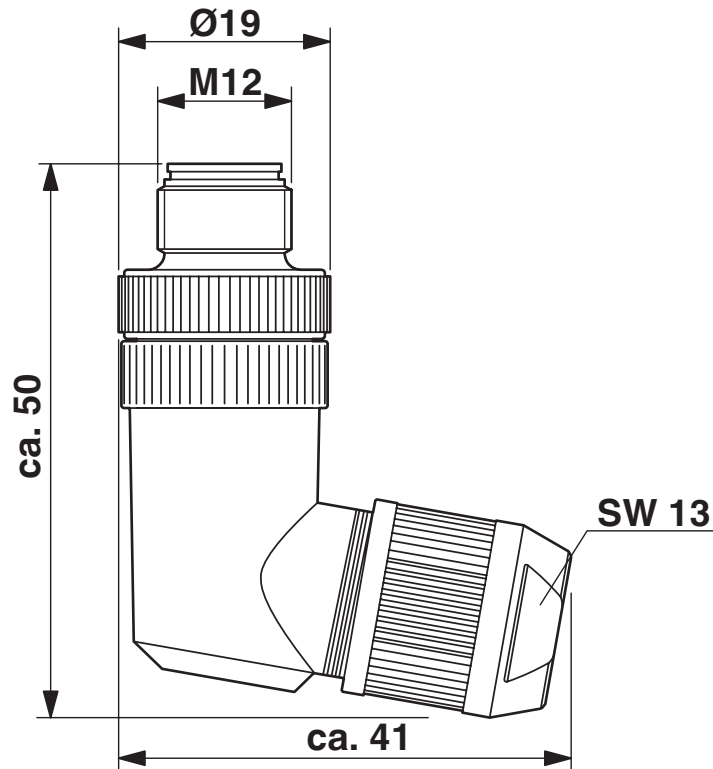
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Drawings

Dimensional drawing



M12 x 1 male plug, angled, shielded

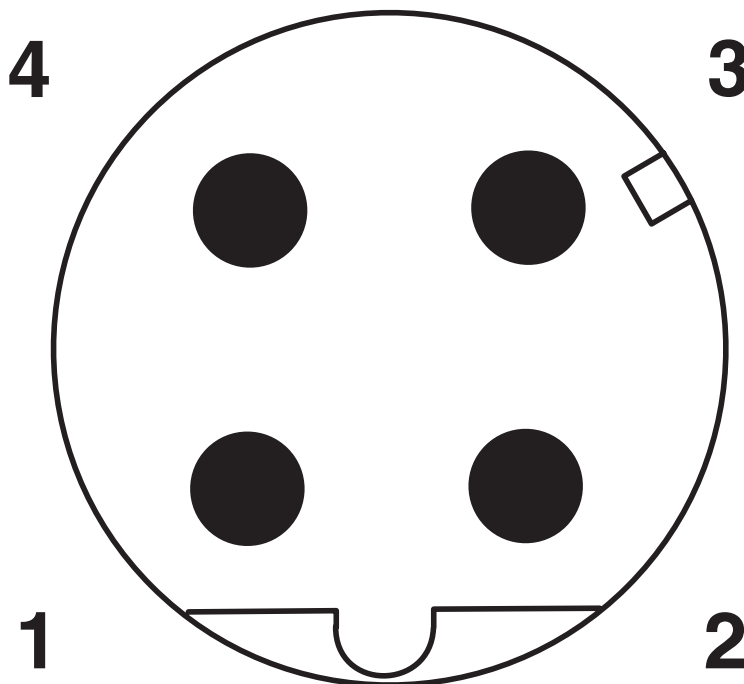
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Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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	8b90fa30-8da7-43b6-8604-62d355153c4c

EF3.1 Climate Change

CO2e kg	0.562 kg CO2e
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com