

# SACC-M12MRD-4Q SH PN - Data connector



1554539

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Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, D, Insulation displacement connection, knurl material: Nickel-plated brass, 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	BF2
Product Key	BF2CDN
Catalog Page	Page 343 (C-2-2019)
GTIN	4046356166225
Weight per Piece (including packing)	43.66 g
Weight per Piece (excluding packing)	44.6 g
Customs tariff number	85366990
Country of origin	DE

## Technical Data

### Notes

General	This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling)
General	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties.

### Mounting

Assembly instructions	The connector pin assignment can be rotated 45° to the cable outlet
Connection method	Insulation displacement connection

### Product properties

Product type	Circular connector (cable-side)
Number of positions	4
Sensor type	PROFINET
Application	Data
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	Nickel-plated brass

### Connection data

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## 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)

## Pin assignment

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

## Electrical properties

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	1.75 A

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
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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 (on the basis of IEC 11801), 100 Mbps
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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### M12

Standards/specifications	according to IEC 61076-2-101
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