

1411046

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Data connector, PROFINET CAT5, 4-position, shielded, Plug straight M12, coding: D, Crimp connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 8 mm

Commercial data

Item number	1411046
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF34
Product key	AF2CJN
GTIN	4046356920216
Weight per piece (including packing)	43.56 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

SACC-M12MSD-4CT SH PN - Data connector



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Technical data

Notes

General	Order crimp contacts separately
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)
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.

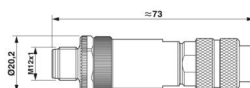
Product properties

Product type	Circular connector (cable-side)
Sensor type	PROFINET
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	D
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	73 mm

External dimensions

Outside diameter	5 mm ... 8 mm
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Housing

Diameter housing	20.2 mm
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Material specifications

Flammability rating according to UL 94	HB
Seal material	FPM NBR
Material of grip body	Zinc die-cast, nickel-plated

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Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Crimp connection
Connection cross section	0.34 mm² ... 0.5 mm²
Connection cross section AWG	22 ... 20
Tightening torque	0.6 Nm (M12 knurl)
	1 Nm (Connector with coupling sleeve)
	1 Nm (Pressure nut with coupling sleeve)

Electrical properties

Rated surge voltage	2.5 kV
Insulation resistance	≥ 10 GΩ
Nominal voltage U _N	60 V DC
	48 V AC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

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

Cable/line

Signal type/category	PROFINET CAT5 (based on IEC 11801)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

M12

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

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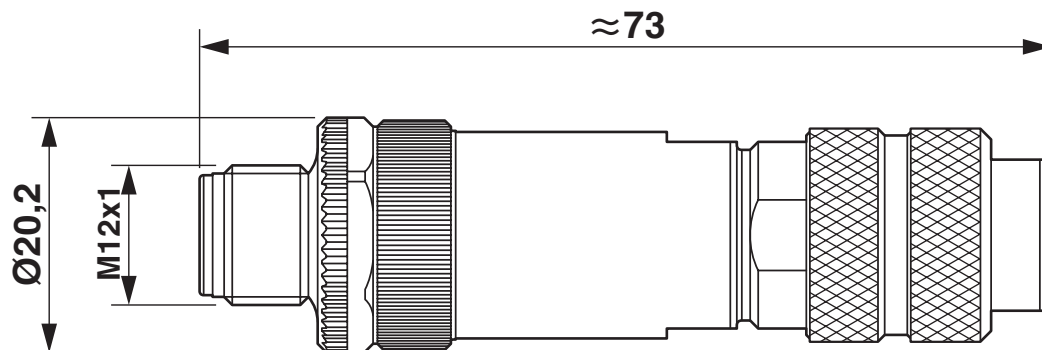


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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

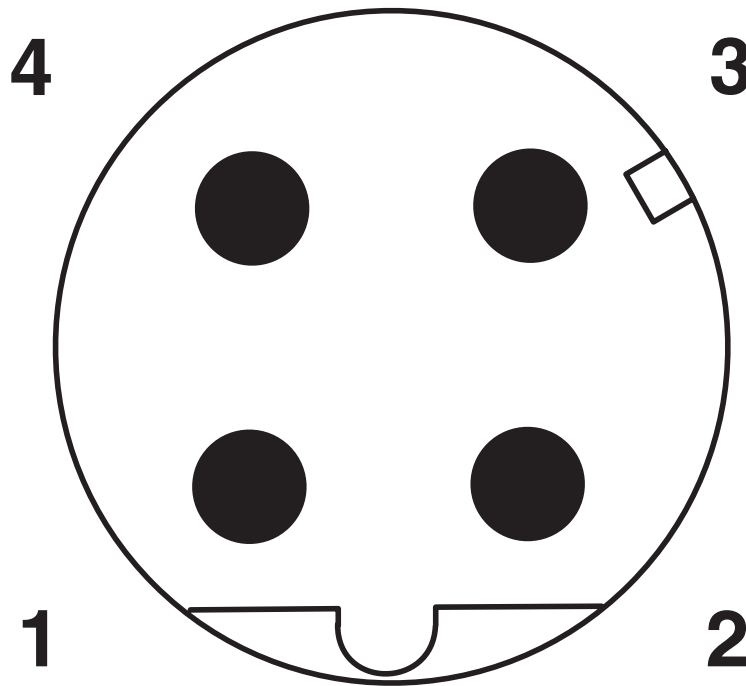
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Schematic diagram



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 8.0	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
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)