SACC-M8MSD-4PL-CL SH PN - Data connector

1323169

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Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M8, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 7.5 mm

Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Safe use in the field, thanks to a high degree of protection

Commercial data

Item number	1323169
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	AF2BFN
GTIN	4063151758233
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

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.
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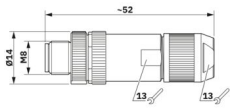
Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	14 mm
Height	14 mm
Length	51 mm

External dimensions

Outside diameter	5 mm ... 7.5 mm

Housing

Diameter housing	14 mm

Material specifications

Material	PA 6 (Actuation lever)
	PA 6 (Actuation lever)
Flammability rating according to UL 94	V0
Seal material	NBR

Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm² ... 0.5 mm² (with ferrule)
Connection cross section AWG	26 ... 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.2 Nm (M8 knurl)
	0.8 Nm (Connector with coupling sleeve)
	1.5 Nm (Pressure nut with coupling sleeve)

Connection assignment

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

Electrical properties

Rated surge voltage	1.5 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Transmission speed	100 Mbps

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M8
Coding	D

Interfaces

Signal type/category	PROFINET CAT5, 100 Mbps

Environmental and real-life conditions

Ambient conditions

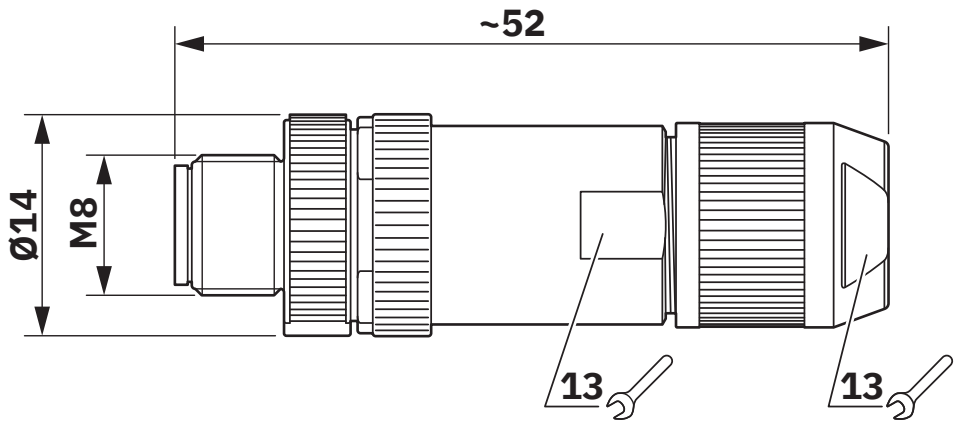
Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Standard designation	M8 connector
Standards/specifications	IEC 61076-2-114
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

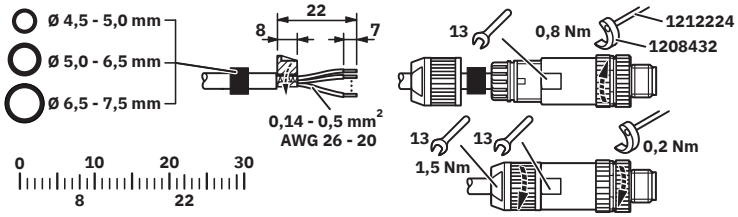
Drawings

Dimensional drawing



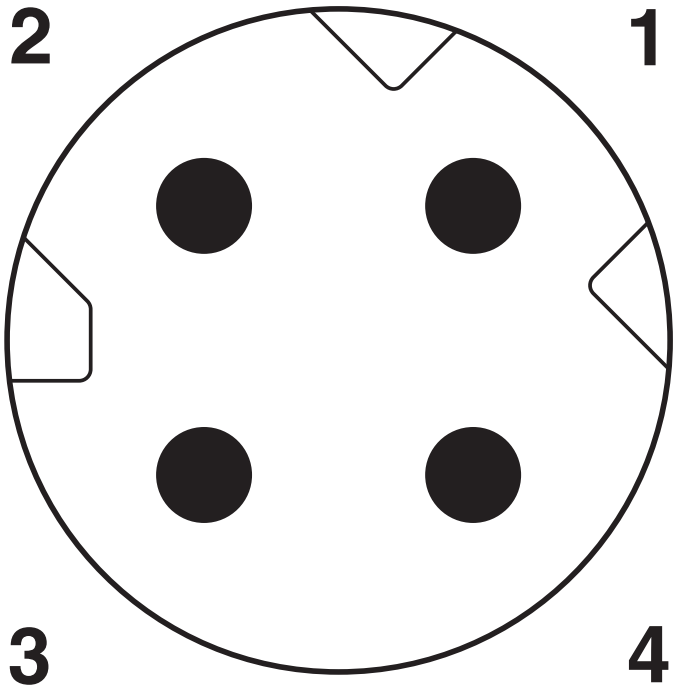
Male, straight, shielded

Functional drawing



Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single-core wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, stick an additional shielding foil around the wire pack, slide the wire pack with shielding foil into the shield contact within the sleeve, screw the sleeve housing to the plug insert, screw the pressure nut tight.

Schematic diagram



Pin assignment M8 male connector, 4-pos., D-coded, view of pin side

Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 10.0	EC002635

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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