

SACC-M12FSX-8QO SH ETH - Data connector



1414586

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Data connector, Ethernet CAT6_A (10 Gbps), 8-position, halogen-free, shielded, Socket straight M12, coding: X, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 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	1414586
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CDI
Product key	BF2CDI
Catalog page	Page 342 (C-2-2019)
GTIN	4055626029238
Weight per piece (including packing)	46.934 g
Weight per piece (excluding packing)	46.934 g
Country of origin	DE

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Technical data

Notes

General

NOTE: 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.

Product properties

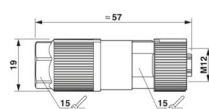
Product type	Circular connector (cable-side)
Sensor type	Ethernet
Number of positions	8
Application	Data
No. of cable outlets	1
Shielded	yes
Coding	X
Cable outlet	straight

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length	57 mm
Wrench size, union nut	15 mm

External dimensions

Outside diameter	5 mm ... 9.7 mm
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Housing

Diameter housing	19 mm
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Material specifications

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

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Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Wire insulation material	PVC / PE / PP / rubber

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm ² ... 0.34 mm ² (flexible) 0.14 mm ² ... 0.34 mm ² (solid)
Connection cross section AWG	26 ... 22 (flexible) 26 ... 22 (solid)
Tightening torque	M12 knurl 5 Nm (Pressure nut)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = WHOG (D1+) 2 = OG (D1-) 3 = WHGN (D2+) 4 = GN (D2-) 5 = WHBN (D4+) 6 = BN (D4-) 7 = WHBU (D3-) 8 = BU (D3+)
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Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC 60 V DC
Nominal current I _N	0.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	X

Cable/line

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Signal type/category	Ethernet CAT6 _A (IEC 11801), 10 Gbps
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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C ... 50 °C

Standards and regulations

Testing	
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Standard designation	M12 connector
Standards/specifications	based on IEC 61076-2-109
Standard designation	Shock, vibration
Standards/specifications	EN 50155:2001

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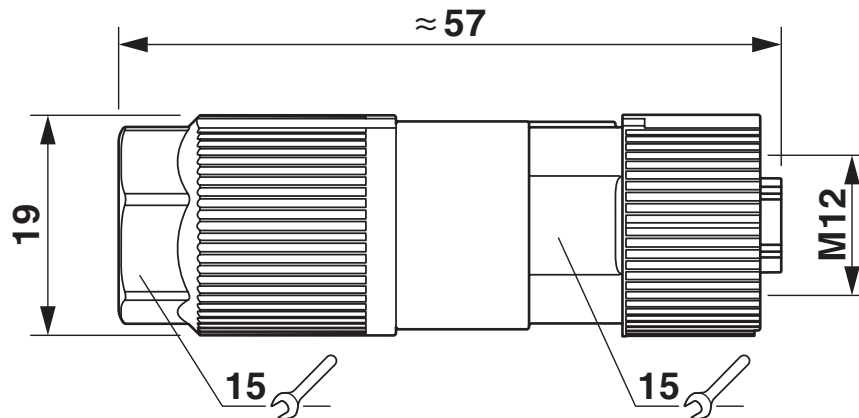


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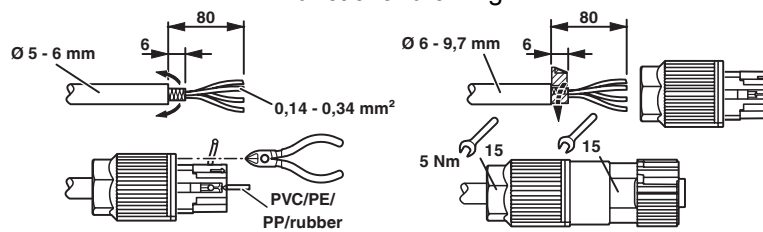
Drawings

Dimensional drawing



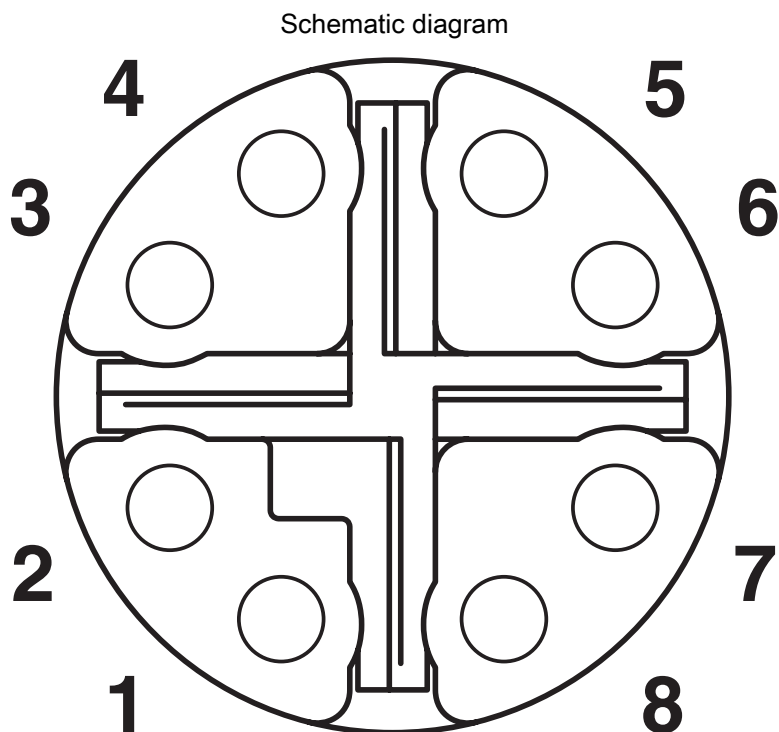
M12 x 1 socket, straight, shielded

Functional drawing



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M12 socket pin assignment, 8-pos, view of socket side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nz/products/1414586>



EAC
Approval ID: RU C-DE.BL08.B.00511



UL Listed
Approval ID: E335024-20120831



cUL Listed
Approval ID: E335024-20120831

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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