

1424434

<https://www.phoenixcontact.com/gb/products/1424434>

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Connector, Universal, 8-position, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 3 mm ... 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

Commercial data

Item number	1424434
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF2CCA
Product key	BF2CCA
Catalog page	Page 17 (C-2-2017)
GTIN	4055626375632
Weight per piece (including packing)	26.54 g
Weight per piece (excluding packing)	25 g
Customs tariff number	85444290
Country of origin	DE

SACC-M12FS-8QO-0,25-CM M - Connector



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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)
Sensor type	Universal
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

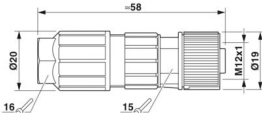
Data management status

Article revision	04
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	58 mm
Wrench size, union nut	16 mm
Wrench size, counter nut	15 mm

External dimensions

Outside diameter	3 mm ... 7 mm
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Housing

Diameter housing	20 mm
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Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
	FKM
Material of grip body	PA-GF
Contact material	CuSn

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Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Wire insulation material	PVC / PE / PP / rubber

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm ² ... 0.25 mm ² (flexible)
Connection cross section AWG	26 ... 24 (flexible)
Tightening torque	0.4 Nm (M12 knurl)
	4 Nm (Pressure nut)

Pin assignment

Contact Color (signal designation) Contact (optional)	1 = WH
	2 = BN
	3 = GN
	4 = YE
	5 = GY
	6 = PK
	7 = BU
	8 = RD

Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	2 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	A

Cable/line

Signal type/category	Universal
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Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

M12

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

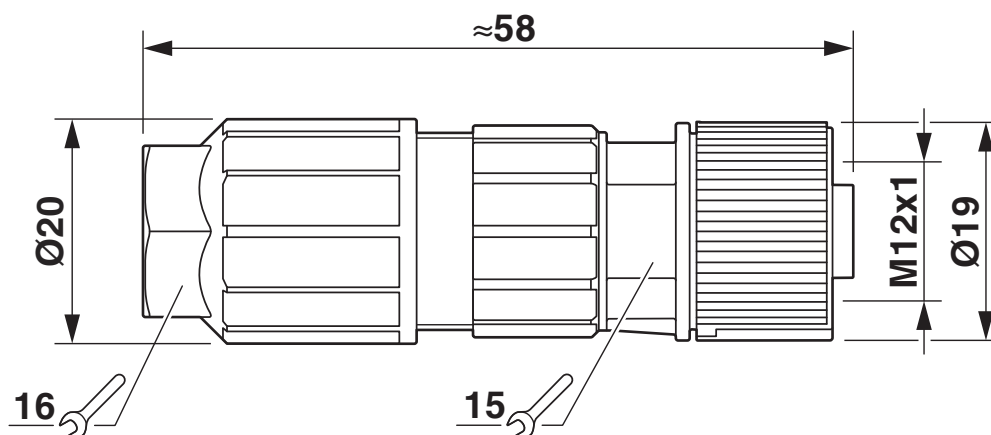
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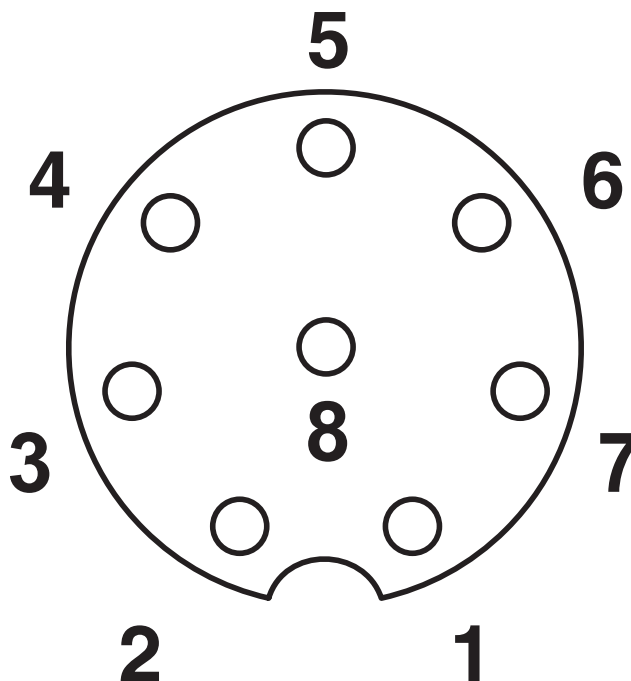
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



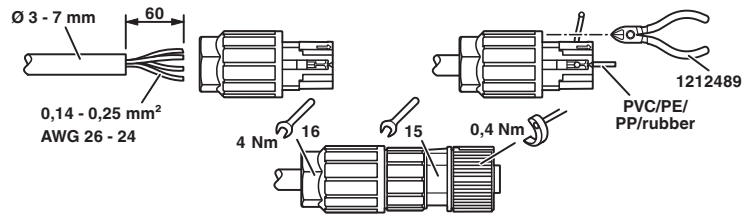
Pin assignment M12 socket, 8-pos., A-coded, view female side

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Functional drawing



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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

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.)	No substance above 0.1 wt%
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