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Connector, Universal, 8-position, Plug 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	1424433
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	AF2CCA
GTIN	4055626375625
Weight per piece (including packing)	20.9 g
Weight per piece (excluding packing)	20 g
Customs tariff number	85444290
Country of origin	DE

SACC-M12MS-8QO-0,25-CM M - Connector



1424433

<https://www.phoenixcontact.com/us/products/1424433>

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.

Product properties

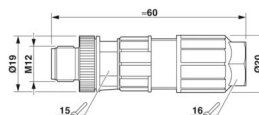
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing



Length	60 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
Material of grip body	PA-GF
Contact material	CuSn
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

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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)

Connection 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	Plug
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
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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

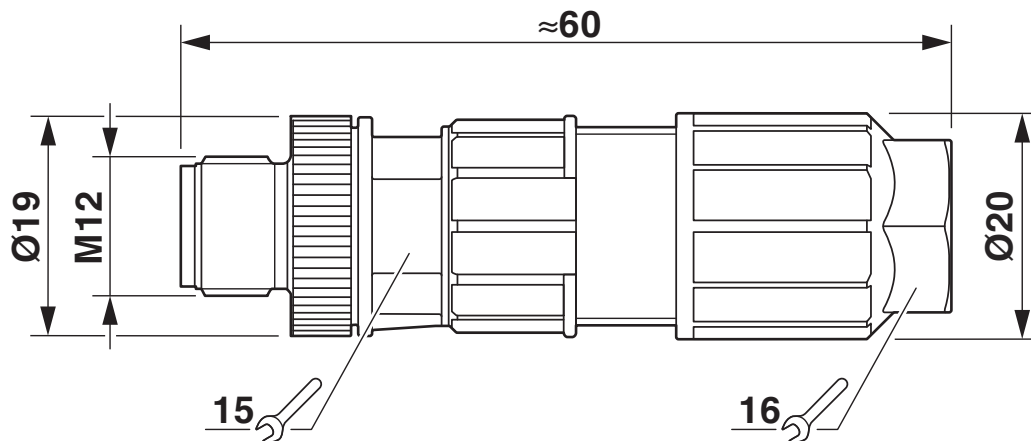
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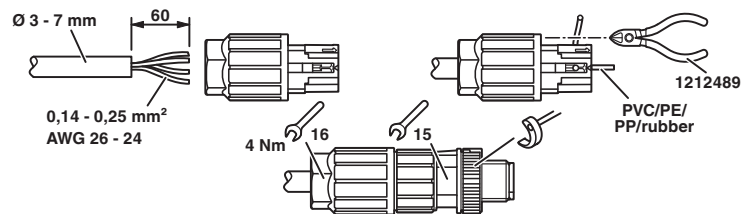
Drawings

Dimensional drawing

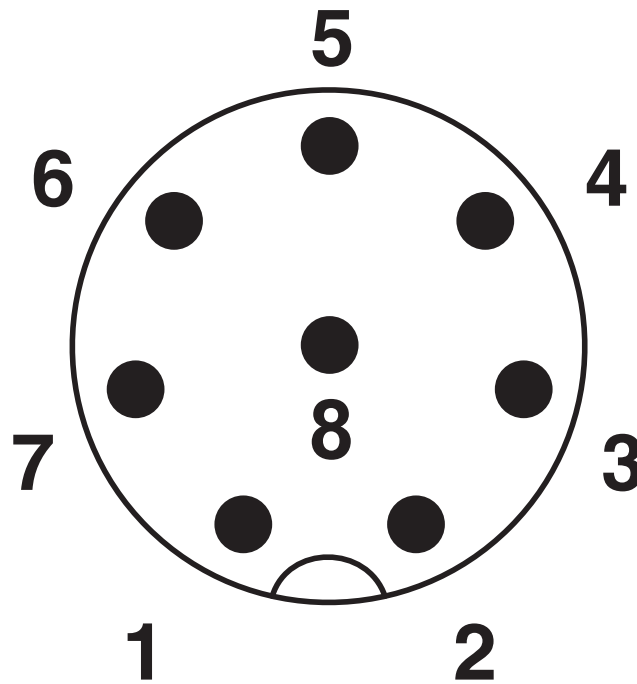


Plug, M12 x 1, straight

Functional drawing



Schematic diagram



Pin assignment of M12 plug, 8-pos., A-coded, view of plug side

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	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
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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