

## Flush-type connector - SACC-E-M12MS-17P-M16XL/0,5 - 1411583

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Flush-type connector, Universal, 17-position, PlugLink:M12, A-coded, Front mounting, M16 x 1.5, Individual wires, Cable length: 0.5 m

The figure shows the 12-pos. product version

### Why buy this product

- Easy-to-install, optimized XL housing contour with wrench size 19
- Tightening limitation for the O-ring gasket
- Pre-assembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- For high transmission safety: shield connection to the housing with optional EMC nut



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 935425
GTIN	4046356935425
Weight per Piece (excluding packing)	34.200 g
Custom tariff number	85366990
Country of origin	Germany
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

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

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## Technical data

### General

Note	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Rated current at 40°C	1.5 A
Rated voltage	30 V
Rated surge voltage	0.8 kV
Number of positions	17
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Signal type/category	Universal
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Individual wires
Insertion/withdrawal cycles	> 100
Torque	0.8 Nm ... 1.3 Nm (Installation-side)
Mounting type	Front mounting M16 x 1.5 Tightening limitation

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	FKM

### Cable

Cable type	TPE litz wire
Conductor cross section	0.14 mm²
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.1 mm ±0.05 mm
Thickness, insulation	0.21 mm (Core insulation)
Wire colors	brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray
Material conductor insulation	TPE
Conductor material	Tin-plated Cu litz wires
Standards/specifications	M12 connector IEC 61076-2-101
Insulation resistance	≥ 20 MΩ*km
Conductor resistance	≤ 57.6 mΩ/m

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### Technical data

#### Cable

Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (cable, flexible installation)

#### Standards and Regulations

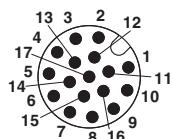
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	V0

#### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"	

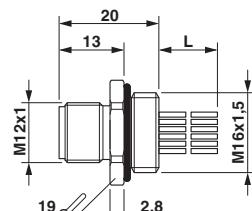
### Drawings

Schematic diagram



Pin assignment M12 male connector, 17-pos., male side view

Dimensional drawing



M12 flush-type plug

Circuit diagram

1	BN
2	BU
3	WH
4	GN
5	PK
6	YE
7	BK
8	GY
9	RD
10	VT
11	GYPK
12	RDBU
13	WHGN
14	BNGN
15	WHYE
16	YEBN
17	WHGY

Contact assignment of the M12 plug

### Classifications

eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27143423

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### Classifications

#### eCl@ss

eCl@ss 8.0	27440103
eCl@ss 9.0	27440102

#### ETIM

ETIM 4.0	EC002061
ETIM 5.0	EC002061
ETIM 6.0	EC002061

#### UNSPSC

UNSPSC 13.2	39121413
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### Approvals

#### Approvals

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#### Approvals

EAC / cULus Recognized

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#### Ex Approvals

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#### Approval details

EAC		B.01742
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cULus Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> E221474-20140616
mm <sup>2</sup> /AWG/kcmil		26
Nominal current IN		1.5 A
Nominal voltage UN		30 V

### Accessories

#### Accessories

Flat nut

## Flush-type connector - SACC-E-M12MS-17P-M16XL/0,5 - 1411583

### Accessories

Flat nut - SACC-E-MU-M16 - 1504097



Flat nut with M16 thread

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Protective cap

Sealing cap - PROT-M12 FS - 1560251



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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Sealing cap - PROT-M12 FS-M - 1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field