

# SACC-EC-MS-8CON-M16/2,0 SCO - Device connector front mounting



1446388

<https://www.phoenixcontact.com/us/products/1446388>

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Device connector front mounting, 8-position, straight, M12-SPEEDCON, coding: A, on free cable end, Front mounting, Individual wires, cable length: 2 m, 0.25 mm<sup>2</sup>, TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239792

## Commercial data

Item number	1446388
Packing unit	1 pc
Minimum order quantity	50 pc
Sales key	AB24
Product key	ABQCEB
GTIN	4046356628358
Weight per piece (including packing)	69 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

General	Lock nut is included in the scope of delivery
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### Mounting

Mounting type	Front mounting
Connection method	Individual wires

### Product properties

Product type	Circular connectors (device side)
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires

### Electrical properties

Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	30 V
Nominal current $I_N$	2 A
Max. conductor resistance	80 m $\Omega$ /m

### Connection data

#### Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.25 mm <sup>2</sup>

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## Connector

### Connection 1

Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	2 m
Cable type	TPE litz wire
Wire diameter incl. insulation	1.15 mm ±0.07 mm
Single wire, color	brown, blue, white, gray, pink, green, yellow, red
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 80 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-25 °C ... 90 °C (cable, fixed installation)

## Standards and regulations

### M12

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

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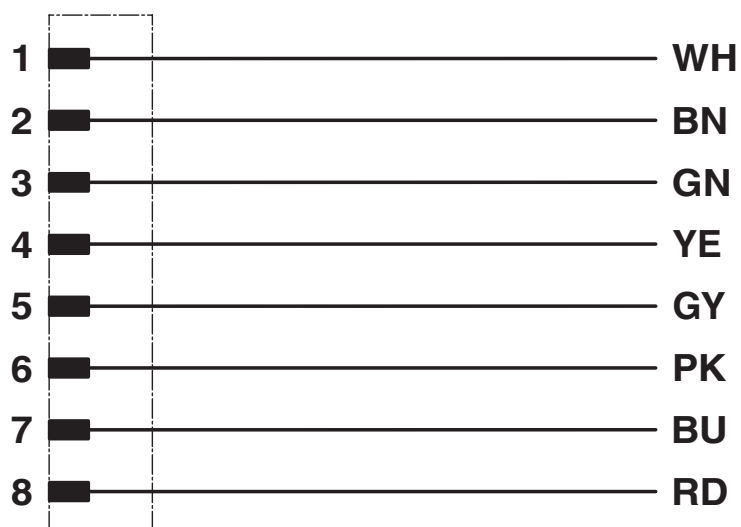


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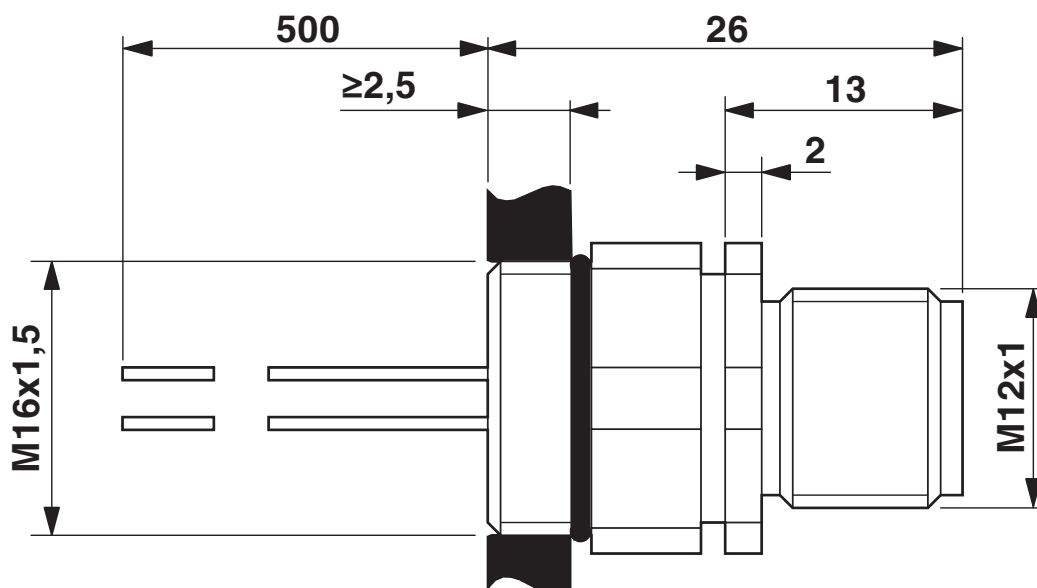
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## Drawings

Circuit diagram



Dimensional drawing



Dimensional drawing

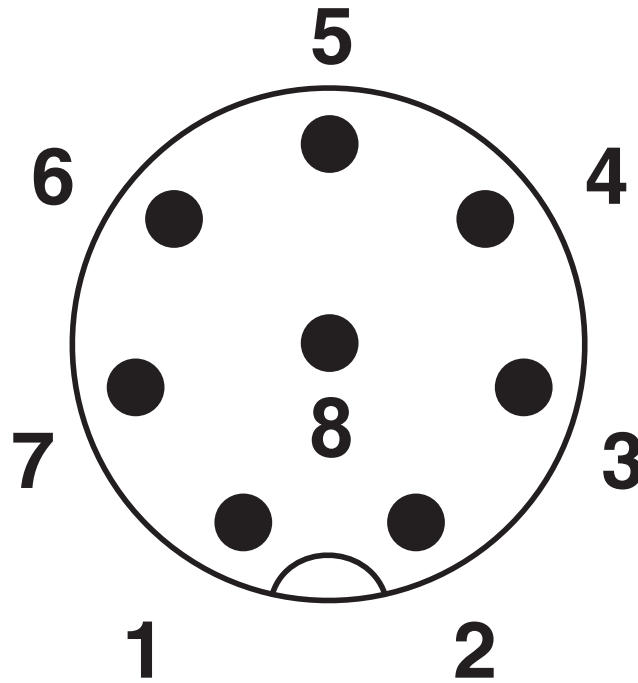
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Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

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## Approvals

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### UL Recognized

Approval ID: E118976-20100522

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	2 A	- 24	-



### EAC

Approval ID: B.01687



### cULus Recognized

Approval ID: E221474-20140616

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	2 A	24 - 22	-

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## Classifications

### ECLASS

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

### ETIM

ETIM 8.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)