

SAC-4P-M12MS/ 3,0-547/M12FS BK - Sensor/actuator cable

1424978
<https://www.phoenixcontact.com/us/products/1424978>

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Sensor/actuator cable, 4-position, PVC, yellow, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m

Commercial data

Item number	1424978
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IFB
GTIN	4055626402253
Weight per piece (including packing)	219.2 g
Weight per piece (excluding packing)	219.2 g
Customs tariff number	85444290
Country of origin	US

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
Application	Standard, U.S. cables
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PVC

Electrical properties

Insulation resistance	$\geq 10 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 V DC
Nominal current I_N	4 A
Protective circuit	unwired

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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Connector

Connection 1

Type	Plug straight M12
Number of positions	4

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Coding type	A
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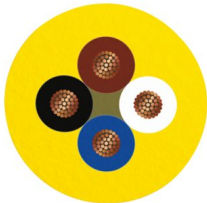
Connection 2

Type	Socket straight M12
Number of positions	4
Coding type	A

Cable/line

Cable length	3 m
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PVC AWG 18 yellow 105°C [547]

Dimensional drawing		
UL AWM Style	2517 (105 °C / 300 V)	
Number of positions	4	
Shielded	no	
Cable type	PVC AWG 18 yellow 105°C [547]	
Conductor structure signal line	41x 0.16 mm	
AWG signal line	18	
Wire diameter incl. insulation	1.7 mm ±0.03 mm	
External cable diameter	6.00 mm ±0.2 mm	
Outer sheath, material	PVC	
External sheath, color	yellow	
Conductor material	Tin-plated Cu litz wires	
Material wire insulation	PVC	
Single wire, color	brown, white, blue, black	
Overall twist	4 wires, twisted	
Nominal voltage, cable	300 V	
Minimum bending radius, fixed installation	8 x D	
Smallest bending radius, fixed installation	48 mm	
Flame resistance	FT4	
Special properties	C(UL) CMX OUTDOOR-CMG 105 °C	
	UL ITC/PLTC 105 °C	
	CSA AWM I/II A/B FT4 105 °C / 300 V	
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)	

Environmental and real-life conditions

Ambient conditions

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Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

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

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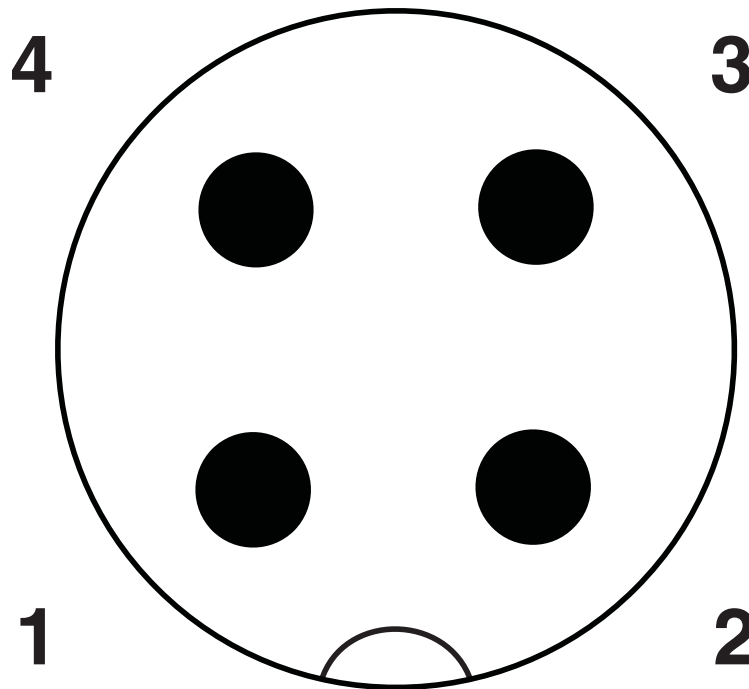


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Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

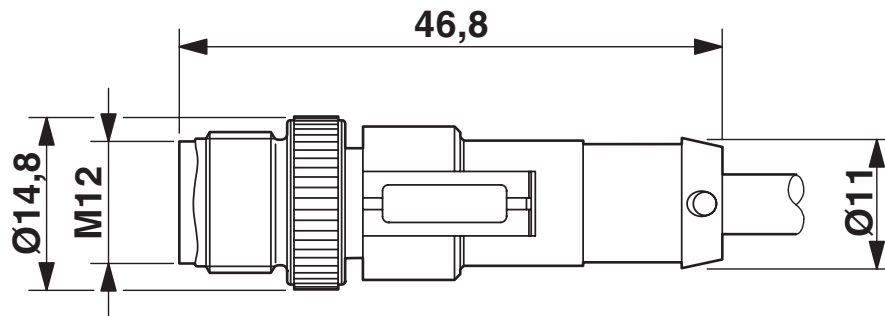
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Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



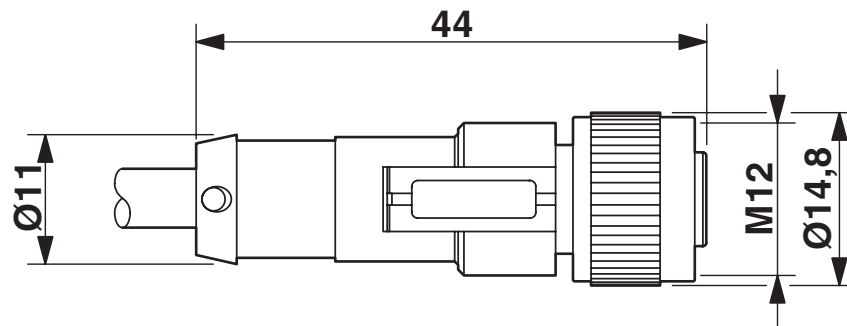
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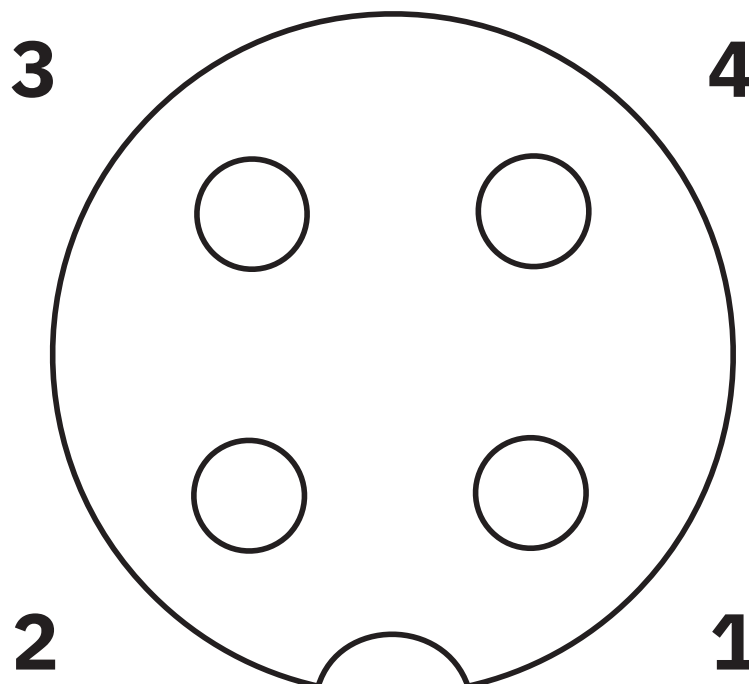
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Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424978>

 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	300 V	4 A	-	-

 cUL Listed Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	300 V	4 A	-	-

 EAC-RoHS Approval ID: RU D-DE.HB35.B.00387				
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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 8.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

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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