

SAC-4P-M8MR/10,0-542 SH BK - Sensor/actuator cable



1406012

<https://www.phoenixcontact.com/us/products/1406012>

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Sensor/actuator cable, 4-position, PVC, yellow, shielded, Plug angled M8, on free cable end, cable length: 10 m

Commercial data

Item number	1406012
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IBB
GTIN	4046356800174
Weight per piece (including packing)	115.9 g
Weight per piece (excluding packing)	115.9 g
Customs tariff number	85444290
Country of origin	US

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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)

Connector

Connection 1

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Type

Plug angled M8

Connection 2

Type

free cable end

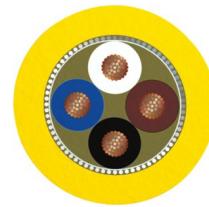
Cable/line

Cable length

10 m

PVC yellow 105 °C [542]

Dimensional drawing



Cable weight

37 kg/km

UL AWM Style

2517 (105 °C / 300 V)

Number of positions

4

Shielded

yes

Cable type

PVC yellow 105 °C [542]

Conductor structure signal line

7x 0.20 mm

AWG signal line

24

Wire diameter incl. insulation

1.12 mm ±0.03 mm

External cable diameter

4.90 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, blue, black, white

Overall twist

4 wires, twisted

Optical shield covering

85 %

Max. conductor resistance

max. 79.7 Ω/km (20 °C)

Insulation resistance

≥ (550 M Ohms/m @ 500V)

Nominal voltage, cable

300 V

Minimum bending radius, flexible installation

12 x D

Smallest bending radius, movable installation

59 mm

Flame resistance

FT4

Other resistance

UV resistant

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
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

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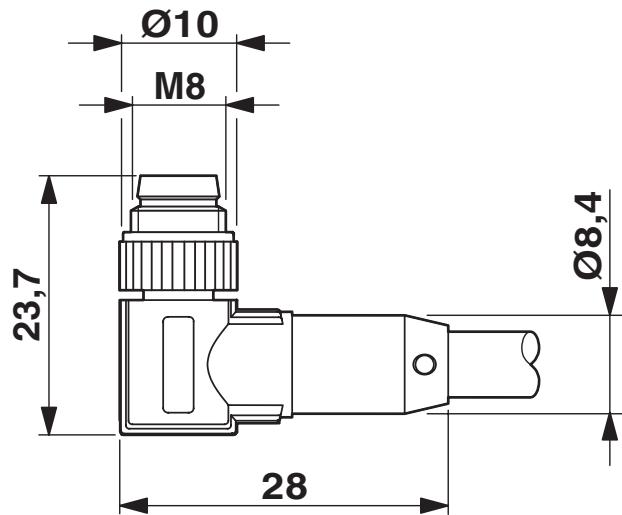


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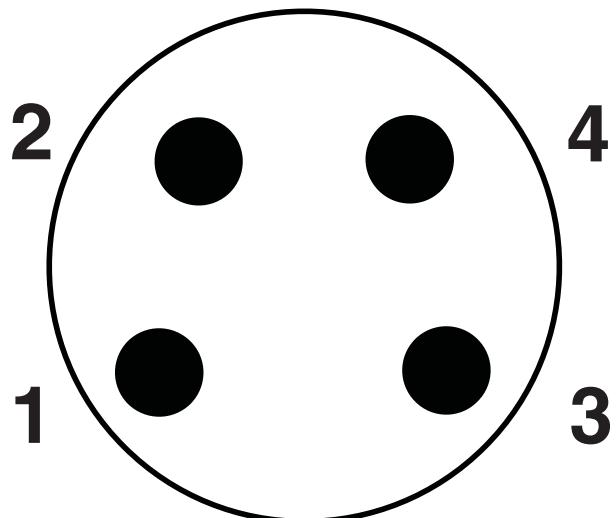
Drawings

Dimensional drawing



Plug M8 x 1, angled, shielded

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

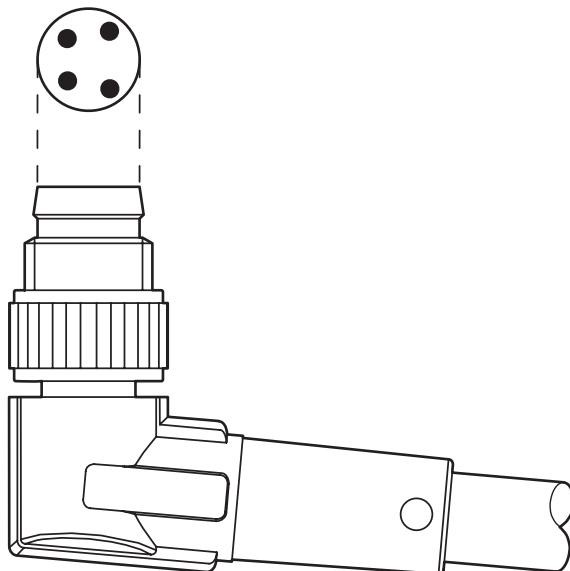
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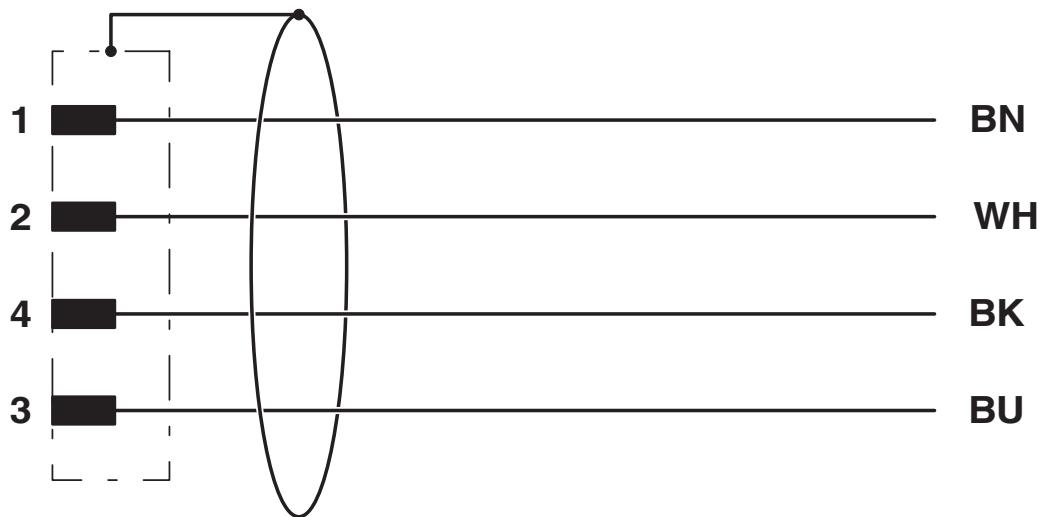
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Schematic diagram



Layout of connector pin assignments

Circuit diagram



Contact assignment of M8 plugs/sockets

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Approvals

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UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	30 V	4 A	-	-



cUL Listed

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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine	30 V	4 A	-	-



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	7ca0d85a-4b12-4c30-8bf7-0958d41f6ce6

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