

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable



1410269

<https://www.phoenixcontact.com/gb/products/1410269>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 4-position, PUR halogen-free, yellow, Plug straight M12 SPEEDCON, coding: A, on free cable end, cable length: 4.2 m

Commercial data

Item number	1410269
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AF1CCA
Product key	AF1CCA
GTIN	4046356893190
Weight per piece (including packing)	138.4 g
Weight per piece (excluding packing)	129.2 g
Customs tariff number	85444290
Country of origin	PL

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	4
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
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

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 V DC

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection	
Tightening torque	0.4 Nm

Connector

Connection 1	
Type	Plug straight M12 SPEEDCON

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Number of positions	4
Locking type	SPEEDCON
Coding type	A

Connection 2

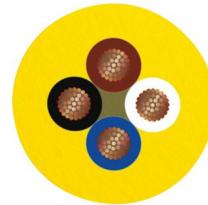
Type	free cable end
------	----------------

Cable/line

Cable length	4.2 m
--------------	-------

PUR halogen-free yellow [240]

Dimensional drawing



Cable weight	30 kg/km
Number of positions	4
Shielded	no
Cable type	PUR halogen-free yellow [240]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ²
Wire diameter incl. insulation	1.27 mm ±0.02 mm
External cable diameter	4.70 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.80 mm (Outer cable sheath)
Overall twist	4 wires, twisted
Length of twist, overall twist	49.5 mm
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 47 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



	m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN EN 50267-2-1
Resistance to oil	in accordance with DIN UL-Style 20549
Other resistance	in accordance with FT1 as per UL 758
Special properties	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

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

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

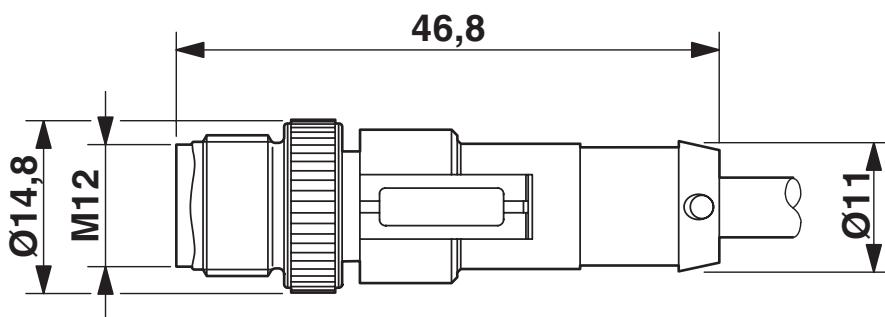
1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

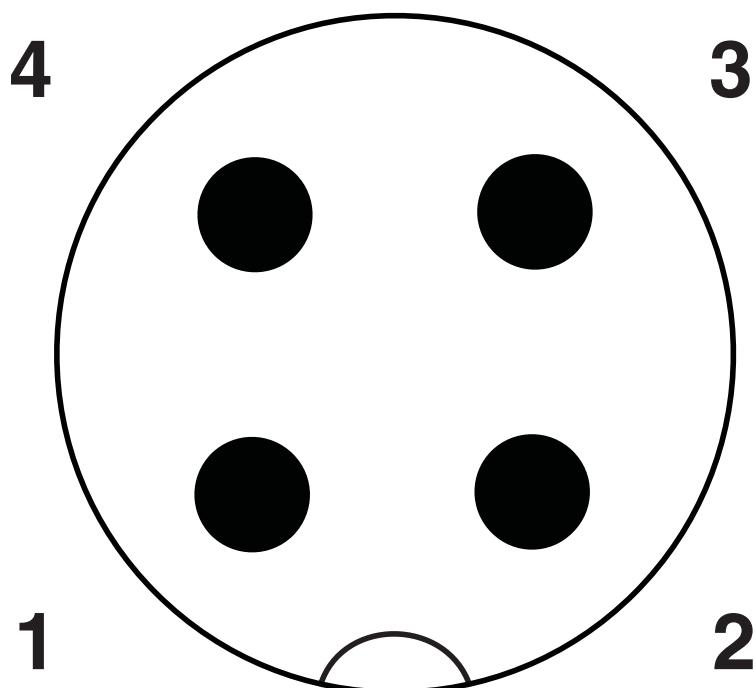
SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>

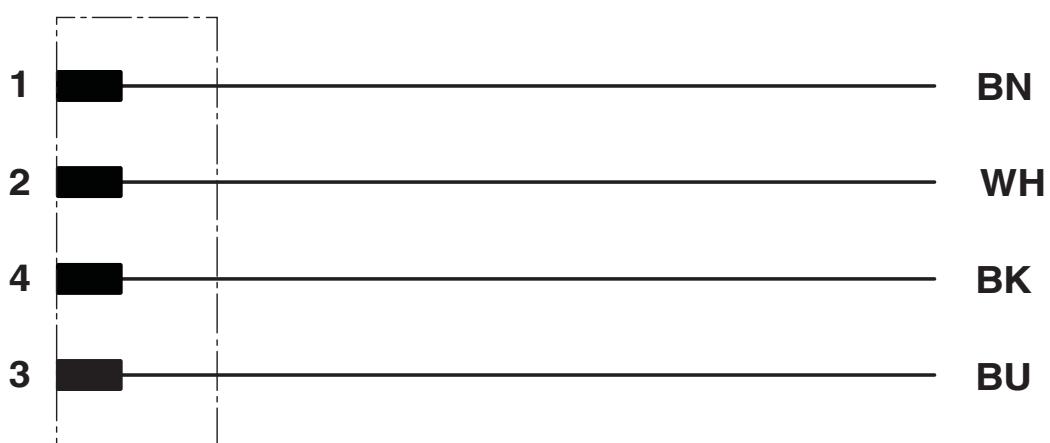


Schematic diagram



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

Circuit diagram



Contact assignment of the M12 plug

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1410269>



EAC-RoHS

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

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Classifications

ECLASS

ECLASS-13.0	27060311
-------------	----------

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-4P-MS/4,2-240 SCO - Sensor/actuator cable

1410269

<https://www.phoenixcontact.com/gb/products/1410269>



Environmental product compliance

EU RoHS

Fulfils 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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd

Halesfield 13, Telford

Shropshire, TF7 4PG

01952 681700

info@phoenixcontact.co.uk