

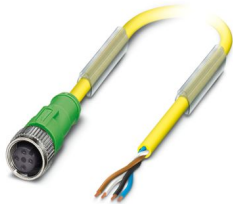
SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

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, free cable end, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1529810
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CCA
GTIN	4017918989750
Weight per piece (including packing)	314.9 g
Weight per piece (excluding packing)	300 g
Customs tariff number	85444290
Country of origin	DE

1529810

<https://www.phoenixcontact.com/us/products/1529810>

Technical data

Product properties

Product type	Sensor/actuator cable
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
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

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 V DC
Nominal current I_N	4 A

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

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

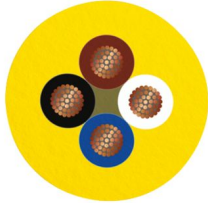
Connection 2

Type	Socket straight M12
Number of positions	4
Coding type	A

Cable/line

Cable length	10 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: 10000000, Bending radius: 47 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

Dynamic load capacity (torsion)	Torsion: ± 180 °/m, Torsion cycles: ≥ 5000000 , Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Flame resistance	in accordance with DIN UL-Style 20549
	in accordance with FT1 as per UL 758
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
Special properties	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
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

Drawings

Dimensional drawing



M12 x 1 socket, straight

SAC-4P-10,0-240/M12FS - Sensor/actuator cable

1529810

<https://www.phoenixcontact.com/us/products/1529810>

Schematic diagram



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

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1529810>



EAC-RoHS

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

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
-----------	----------

UNSPSC

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

SAC-4P-10,0-240/M12FS - Sensor/actuator cable



1529810

<https://www.phoenixcontact.com/us/products/1529810>

Environmental product compliance

EU RoHS

Fulfills 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 2026 © - all rights reserved
<https://www.phoenixcontact.com>

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