

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable



1410679

<https://www.phoenixcontact.com/us/products/1410679>

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-wire, shielded, PE-X, black outer sheath, 4 x 0.5 mm²



Commercial data

Item number	1410679
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CJA
GTIN	4046356905107
Weight per piece (including packing)	7,234 g
Weight per piece (excluding packing)	7,234 g
Customs tariff number	85444995
Country of origin	DE

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable

1410679

<https://www.phoenixcontact.com/us/products/1410679>

Technical data

Product properties

Product type	Cable by the meter
Number of positions	4
Shielded	yes

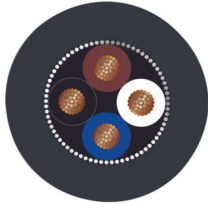
Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC

Cable/line

Cable length	100 m
--------------	-------

PE-X black [28X]

Dimensional drawing	
Cable weight	74 kg/km
Number of positions	4
Shielded	yes
Cable type	PE-X black [28X]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross-section	4x 0.5 mm ² (Signal line)
Wire diameter incl. insulation	1.6 mm ±0.05 mm (Signal line)
External cable diameter	6.80 mm ±0.2 mm
Outer sheath, material	PE-X
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PE-X
Single wire, color	brown, white, blue, black
Thickness, insulation	approx. 0.30 mm (Core insulation) approx. 0.70 mm (Outer cable sheath) approx. 0.45 mm (Inner sheath)
Overall twist	4 wires, twisted
Length of twist, overall twist	108.8 mm
Optical shield covering	85 %
Max. conductor resistance	≤ 39 Ω/km (at 20 °C)

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable



1410679

<https://www.phoenixcontact.com/us/products/1410679>

Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Cable capacity	≤ 100 nF/km (Conductor-conductor, asymmetrical/touching)
	≤ 85 nF/km (Conductor-conductor, symmetrical/star quad)
	≤ 150 nF/km (Wire/shield)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC
Smallest bending radius, fixed installation	34 mm
Smallest bending radius, movable installation	68 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Bending radius: 68 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	according to DIN 60332-1-2
	according to DIN EN 50266-2-5
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant (according to DIN VDE 0276-605)
Special properties	Irradiated
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-15 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-15 °C ... 105 °C (Cable, flexible installation)

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable



1410679

<https://www.phoenixcontact.com/us/products/1410679>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1410679>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00371

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable



1410679

<https://www.phoenixcontact.com/us/products/1410679>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

SAC-4P-100,0-28X/SH-0,50 - Sensor/actuator cable



1410679

<https://www.phoenixcontact.com/us/products/1410679>

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