

SAC-6P-500,0-970 - Data cable



1404175

<https://www.phoenixcontact.com/us/products/1404175>

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.



By the meter, Data cable, VARAN CAT5 (100 Mbps), shielded, SANTOPRENE halogen-free/TPE halogen-free, black RAL 9005, 6-wire (1x2xAWG22/19 + 1x4xAWG24/19), color single wire: brown, blue, white/orange, white/green, green, orange, cable length: 500 m

Commercial data

Item number	1404175
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AF1LFA
GTIN	4046356681704
Weight per piece (including packing)	42,500 g
Weight per piece (excluding packing)	42,500 g
Country of origin	DE

SAC-6P-500,0-970 - Data cable

1404175

<https://www.phoenixcontact.com/us/products/1404175>

Technical data

Product properties

Product type	Data cable by the meter
Number of positions	6

Electrical properties

Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)


Interfaces

Bus system	VARAN
Signal type/category	VARAN CAT5 (IEC 11801:2002)

Cable/line

Cable length	500 m
--------------	-------

VARAN [970]

Dimensional drawing	
Cable weight	81 kg/km
Number of positions	6
Shielded	yes
Cable type	VARAN [970]
Conductor structure	1x2xAWG22/19 + 1x4xAWG24/19
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor structure, voltage supply	19x 0.16 mm
AWG power supply	22
Conductor cross-section	4x 0.25 mm ² (Signal line) 2x 0.38 mm ² (Power supply)
Wire diameter incl. insulation	1.35 mm (Signal line) 1.5 mm (Power supply)
External cable diameter	7.80 mm ±0.2 mm
Outer sheath, material	SANTOPRENE halogen-free
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material, filler	Yarn

SAC-6P-500,0-970 - Data cable



1404175

<https://www.phoenixcontact.com/us/products/1404175>

Material wire insulation	PP
Single wire, color	brown, blue, white/orange, white/green, green, orange
Type of pair shielding	Tinned copper braided shield, 95 % covering
Overall twist	1 star quad and 2 wires with 2 fillers
Max. conductor resistance	77 Ω /m (Data cable)
Insulation resistance	5 G Ω *km (Data cable)
Wave impedance	100 Ω \pm 15 %
Working capacitance	50 nF (Data cable)
Nominal voltage, cable	125 V (Data cable) 48 V (Power supply)
Test voltage	2000 V (Power supply) max. 700 V AC (Data cable)
Smallest bending radius, fixed installation	\geq 93 mm
Smallest bending radius, movable installation	\geq 93 mm
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 93 mm, Traversing path: 2 m, Traversing rate: 1 m/s, Acceleration: 2 m/s ²
Halogen-free	in accordance with DIN EN 50267-2-1
Ambient temperature (operation)	-20 °C ... 80 °C (Cable)
Ambient temperature (installation)	0 °C ... 50 °C

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation) (Cable, fixed installation)	0 °C ... 50 °C (for installation) -20 °C ... 80 °C (cable, fixed installation)
---	---

SAC-6P-500,0-970 - Data cable



1404175

<https://www.phoenixcontact.com/us/products/1404175>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1404175>



EAC-RoHS

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

SAC-6P-500,0-970 - Data cable



1404175

<https://www.phoenixcontact.com/us/products/1404175>

Classifications

ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

ETIM

ETIM 10.0	EC003249
-----------	----------

UNSPSC

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

SAC-6P-500,0-970 - Data cable



1404175

<https://www.phoenixcontact.com/us/products/1404175>

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%
-------------------------------------	----------------------------

EF3.1 Climate Change

CO2e kg	448.198 kg CO2e
---------	-----------------

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