

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



1404175

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

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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

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## 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
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#### 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 <sup>2</sup> (Signal line) 2x 0.38 mm <sup>2</sup> (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

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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 $\Omega$ /m (Data cable)
Insulation resistance	5 G $\Omega$ *km (Data cable)
Wave impedance	100 $\Omega$ $\pm$ 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 <sup>2</sup>
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)
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## 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

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## Classifications

### ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

### ETIM

ETIM 10.0	EC003249
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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### EF3.1 Climate Change

CO2e kg	448.198 kg CO2e
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