

# SAC-2P-960/... - Bus system cable



1432389

<https://www.phoenixcontact.com/us/products/1432389>

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By the meter, Bus system cable, FOUNDATION Fieldbus, shielded, PVC, orange RAL 2003, 2-wire (2xAWG18/7 + 1xAWG20/7), color single wire: blue, orange



## Commercial data

Item number	1432389
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF17
Product key	AF1LEA
Customs tariff number	85444995
Country of origin	MX

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## Technical data

### Product properties

Product type	Data cable by the meter
Number of positions	2

### Electrical properties

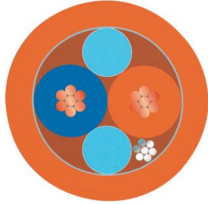
Transmission medium	Copper
Transmission speed	31.25 kbps

### Interfaces

Bus system	FOUNDATION Fieldbus
Signal type/category	FOUNDATION Fieldbus, 31.25 kbps

### Cable/line

#### FOUNDATION Fieldbus orange [960]

Dimensional drawing	
Cable weight	56.552 kg/km
Number of positions	2
Shielded	yes
Cable type	FOUNDATION Fieldbus orange [960]
Conductor structure	2xAWG18/7 + 1xAWG20/7
Signal speed	0.66 c
Conductor structure signal line	7x 0.40 mm
AWG signal line	18
Conductor cross-section	2x 0.75 mm <sup>2</sup> (Signal line) 1x 0.5 mm <sup>2</sup> (Drain wire)
Wire diameter incl. insulation	2.24 mm ±0.05 mm
External cable diameter	7.50 mm ±0.25 mm
Outer sheath, material	PVC
External sheath, color	orange RAL 2003
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PO (Signal line)
Single wire, color	blue, orange
Thickness, insulation	0.50 mm
Thickness, outer sheath	1.00 mm

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Twisted pairs	2 cores to the pair
Overall twist	One pair with one drain wire and fillers for core
Optical shield covering	100 %
Max. conductor resistance	≤ 19.35 Ω/km (Signal line) 26 Ω/km (shield)
Cable capacity	147 pF/m (at 1 kHz, core/shield) ≤ 3.94 pF/m (capacitance unbalance)
Working capacitance	78 nF (at 1 kHz)
Cable impedance	100 Ω ±20 % (At 31.25 kHz)
Nominal voltage, cable	300 V
Smallest bending radius, fixed installation	75 mm
Tensile strength	260 N
Shield attenuation	3.00 dB/km (at 39 kHz)
Flame resistance	UL 1685 (CSA FT 4) UL 1685 (vertical tray) UL 1666 (riser)
Special properties	UL standards PLTC-ER and ITC
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1432389>



**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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