

# SAC-2P-910/... - Bus system cable



1511491

<https://www.phoenixcontact.com/us/products/1511491>

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By the meter, Bus system cable, PROFIBUS, shielded, PUR halogen-free, red lilac RAL 4001, 2-wire (1x2xAWG24/19), color single wire: red, green, cable length: Free entry (0.5 ... 400 m)



## Commercial data

Item number	1511491
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF17
Product key	AF1LFA
Customs tariff number	85444995
Country of origin	AT

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## Technical data

### Product properties

Product type	Data cable by the meter
Number of positions	2
Shielded	yes

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC
Transmission medium	Copper

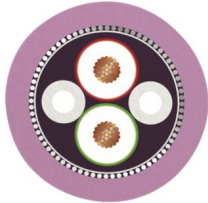
### Interfaces

Bus system	PROFIBUS
Signal type/category	PROFIBUS

### Cable/line

Cable length	Free entry (0.5 ... 400 m)
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### PROFIBUS [910]

Dimensional drawing	
UL AWM Style	21198 (80°C/300 V)
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [910]
Conductor structure	1x2xAWG24/19
AWG signal line	24
Conductor cross-section	2x 0.25 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	2.55 mm ±0.05 mm
External cable diameter	7.70 mm ±0.02 mm
Outer sheath, material	PUR
External sheath, color	red lilac RAL 4001
Conductor material	Tin-plated Cu litz wires
Single wire, color	red, green
Overall twist	2 cores with 2 fillers to the core
Optical shield covering	80 %
Insulation resistance	≥ 5 GΩ*km

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Wave impedance	150 Ω ±10 % (3 MHz ... 20 MHz)
Nominal voltage, cable	≤ 125 V
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 65 mm, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s <sup>2</sup>
Shield attenuation	≤ 4.9 dB (at 16 MHz)
	≤ 4.9 dB (at 4 MHz)
	≤ 0.5 dB (at 38.4 kHz)
	≤ 0.3 dB (at 9.6 kHz)
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)
	IEC 60332-1-2
Resistance to oil	in accordance with DIN EN 60811-404
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 70 °C (Cable, flexible installation)
	-20 °C ... 60 °C (for installation)
	-20 °C ... 60 °C (cable, drag chain applications)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-20 °C ... 80 °C (Cable, flexible installation)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1511491>



**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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