At the end of this document you will find links to products related to this catalog. You can go directly to our shop by clicking HERE. HERE

Bus system cable - SAC-4P-MINMR/25,0-960 VA - 1429499

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Bus system cable, FOUNDATION Fieldbus (31.25 kbps), 3-position, PVC, orange RAL 2003, shielded, Plug angled 7/8"-16UNF, A-coded, on free cable end, Cable length: 25 m

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 318723

Technical data

Dimensions

Length of cable	25 m
Stripping length of the free conductor end	50 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (Plug / socket)
Degree of protection	IP67

General

Rated current at 40°C	5.2 A
Rated voltage	300 V
Number of positions	3
Insulation resistance	≥ 10 MΩ
Coding	A - standard
Signal type/category	FOUNDATION Fieldbus, 31.25 kbps
Status display	No
Overvoltage category	II
Degree of pollution	2
Torque	0.8 Nm (7/8" connectors)

Material

Flammability rating according to UL 94	HB

Bus system cable - SAC-4P-MINMR/25,0-960 VA - 1429499

Technical data

Material

Contact material	CuZn
Contact surface material	AU
Contact carrier material	PA 66
Material of grip body	TPU
Material, knurls	High-grade steel

Standards and Regulations

Flammability rating according to UL 94	HB

Cable

Cable type	FOUNDATION Fieldbus orange
Cable type (abbreviation)	960
Cable structure	2xAWG18/7 + 1xAWG20/7
Conductor cross section	2x 0.75 mm² (Signal line)
	1x 0.5 mm² (Drain wire)
AWG signal line	18
Conductor structure signal line	7x 0.40 mm
Core diameter including insulation	2.24 mm ±0.05 mm
Thickness, insulation	0.5 mm
Wire colors	Blue, orange
Twisted pairs	2 cores to the pair
Overall twist	One pair with one drain wire and fillers for core
Shielding	Plastic-coated aluminum foil with a drain wire
Optical shield covering	100 %
External sheath, color	orange RAL 2003
Outer sheath thickness	1 mm
External cable diameter D	7.5 mm ±0.25 mm
Smallest bending radius, fixed installation	75 mm
Cable weight	56.552 kg/km
Outer sheath, material	PVC
Material conductor insulation	PO (Signal line)
Conductor material	Tin-plated Cu litz wires
Conductor resistance	≤ 19.35 Ω/km (Signal line)
	26 Ω/km (shield)
Working capacitance	78 nF (at 1 kHz)
Cable capacity	147 pF/m (at 1 kHz, core/shield)
	≤ 3.94 pF/m (capacitance unbalance)
Signal speed	0.66 c
Shield attenuation	3 dB/km (At 39 kHz)
Cable impedance	100 Ω ±20 % (At 31.25 kHz)
Inductance	0.6233 µH (per meter)
Nominal voltage, cable	300 V

Bus system cable - SAC-4P-MINMR/25,0-960 VA - 1429499

Technical data

Cable

Special properties	UL standards PLTC-ER and ITC
Flame resistance	UL 1685 (CSA FT 4)
	UL 1685 (vertical tray)
	UL 1666 (riser)
Ambient temperature (operation)	-40 °C ... 105 °C

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

Approvals submitted

Bus system cable - SAC-4P-MINMR/25,0-960 VA - 1429499

Approvals

Approval details

UL Listed

Nominal current IN	5.2 A
Nominal voltage UN	300 V

cUL Listed

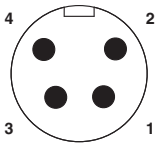
Nominal current IN	5.2 A
Nominal voltage UN	300 V

EAC

cULus Listed

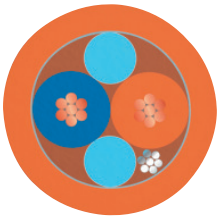
Drawings

Schematic diagram



Pin assignment, plug, 7/8"-16UNF, 4-pos., view of male side

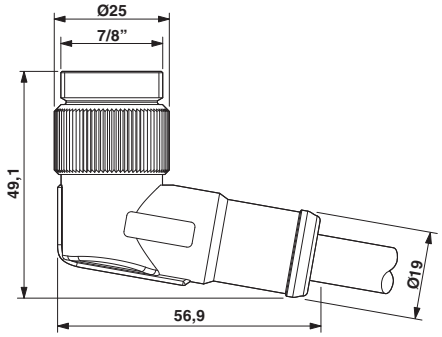
Cable cross section



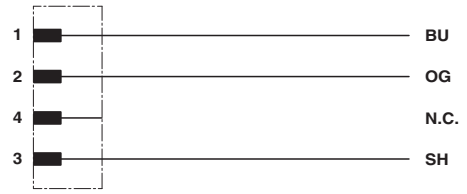
FOUNDATION Fieldbus orange [960]

Bus system cable - SAC-4P-MINMR/25,0-960 VA - 1429499

Dimensional drawing



Circuit diagram



Contact assignment of the 7/8" plug

7/8"-16UNF plug, angled

Phoenix Contact 2016 © - all rights reserved
http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com

Below is a list of articles with direct links to our shop Electric Automation Network where you can see:

- Quote per purchase volume in real time.
- Online documentation and datasheets of all products.
- Estimated delivery time enquiry in real time.
- Logistics systems for the shipment of materials almost anywhere in the world.
- Purchasing management, order record and tracking of shipments.

To access the product, click on the green button.

Product	Code	Reference	Product link
Bus system cable, FOUNDATION Fieldbus (31.25 kbps), 3-position, PVC, orange RAL 2003, shielded, Plug angled 7/8"-16UNF, A-coded, on free cable end, Cable length: 25 m	1429499	SAC-4P-MINMR/25,0-960 VA	Buy on EAN