

Sensor/actuator cable - SAC-4P-15,0-961/MINFS VAL - 1433812

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>)



Sensor/actuator cable, FOUNDATION Fieldbus, 3-position, PVC, blue RAL 5015, free cable end, on Socket straight 7/8"-16UNF, A-coded, cable length: 15 m



Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 526180
GTIN	4046356526180

Technical data

Dimensions

Length of cable	15 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
Status display	No
Degree of pollution	2

Material

Contact material	CuZn
------------------	------

Sensor/actuator cable - SAC-4P-15,0-961/MINFS VAL - 1433812

Technical data

Material

Contact surface material	AU
Contact carrier material	PA 6.6
Material of grip body	TPU
Material, knurls	Stainless steel

Cable

Cable type	Fieldbus FOUNDATION/PROFIBUS PA, blue
Cable type (abbreviation)	961
Cable structure	2xAWG18/7 + 1xAWG20/7
Conductor cross section	2x 0.75 mm ² (Signal line)
	1x 0.5 mm ² (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	blue RAL 5015
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
Tensile strength GRP	260 N
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)
Conductor inductance	0.6233 μH/m
Nominal voltage, cable	300 V
Special properties	UL standards PLTC-ER and ITC
Flame resistance	UL 1685 (CSA FT 4)

Sensor/actuator cable - SAC-4P-15,0-961/MINFS VAL - 1433812

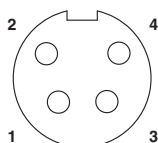
Technical data

Cable

	UL 1685 (vertical tray)
	UL 1666 (riser)
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)

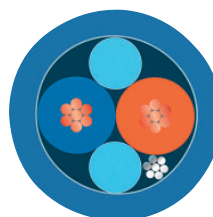
Drawings

Schematic diagram



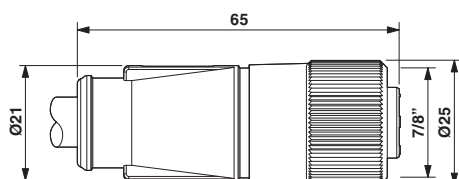
Pin assignment, socket, 7/8"-16UNF, 4-pos., view of female side

Cable cross section



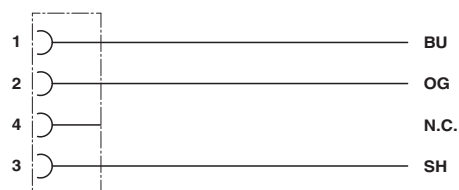
Fieldbus FOUNDATION/PROFIBUS PA, blue [961]

Dimensional drawing



7/8"-16UNF socket, straight

Circuit diagram



Contact assignment of 7/8" socket

Phoenix Contact 2018 © - 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>

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Phoenix Contact:](#)

[1433812](#)