

Bus system cable - SAC-4P-MINMS/10,0-961/MINFSVAL - 1434196

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Bus system cable, FOUNDATION Fieldbus, Foundation Fieldbus, 3-position, PVC, blue RAL 5015, shielded, Plug straight 7/8"-16UNF, A-coded, on Socket straight 7/8"-16UNF, A-coded, Cable length: 10 m



Key commercial data

Packing unit	1 1
Custom tariff number	85444290
Country of origin	Germany

Technical data

Dimensions

Length of cable	10 m
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Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C (Plug / socket)
Degree of protection	IP67
	Type 1 (NEMA)
	Type 3 (NEMA)
	Type 4 (NEMA)
	Type 6P (NEMA)

General

Note	For applications in circuits of intrinsic safety protection type "i". Electrical values following EN 60079-14.
Rated current at 40°C	5.2 A
Number of positions	3
Contact resistance	≤ 5 mΩ

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Technical data

General

Insulation resistance	$\geq 10 \text{ M}\Omega$
Coding	A - standard
Signal type/category	FOUNDATION Fieldbus
Status display	No
Pollution degree	2
Torque	0.8 Nm (7/8" connectors)

Material

Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA66
Material of grip body	TPU
Material, knurls	High-grade steel
Sealing material	TPU

Pin assignment

Position = wire color (signal) = position (optional)	1 (Plug) = BU (DATA-) = 1 (Socket)
	2 (Plug) = OG (DATA+) = 2 (Socket)
	3 (Plug) = SR (shield) = 3 (Socket)

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 $\pm$ 0.05 mm
Thickness, insulation	0.5 mm (Core insulation)
	1 mm (Outer cable sheath)
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
External cable diameter	7.42 mm
External cable diameter D	7.5 mm $\pm$ 0.25 mm

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Technical data

Cable

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	19.2 Ω /km (signal line)
	26 Ω /km (shield)
Working capacitance	148 nF (core-shield)
	78 nF (core-core)
Wave impedance	100 Ω (At 31.25 kHz)
Signal speed	0.66 c
Nominal voltage, cable	300 V
Special properties	UL standards PLTC-ER and ITC
Flame resistance	UL 1685 (CSA FT 4)
Ambient temperature (operation)	-30 °C ... 105 °C (Cable)

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	27061801

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

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Approvals

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UL Listed / cUL Listed / GOST / cULus Listed

Ex Approvals

Approvals submitted

Approval details

UL Listed 	
Nominal current I _N	5.2 A
Nominal voltage U _N	300 V

cUL Listed 	
Nominal current I _N	5.2 A
Nominal voltage U _N	300 V

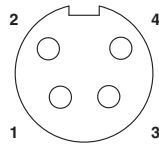
GOST 	
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cULus Listed 	
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Drawings

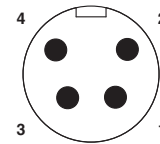
Bus system cable - SAC-4P-MINMS/10,0-961/MINFSVAL - 1434196

Schematic diagram



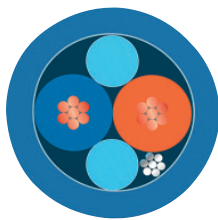
Pin assignment, socket, 7/8"-16UNF, 4-pos., view of female side

Schematic diagram



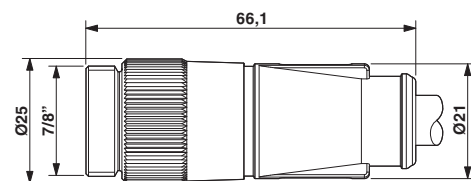
Pin assignment, plug, 7/8"-16UNF, 4-pos., view of male side

Cable cross section



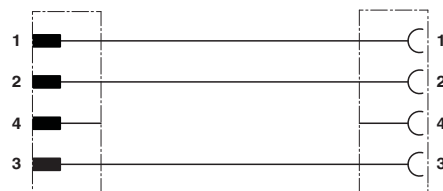
Fieldbus FOUNDATION/PROFIBUS PA, blue [961]

Dimensioned drawing



7/8"-16UNF plug, straight

Circuit diagram



Contact assignment of the 7/8" plug