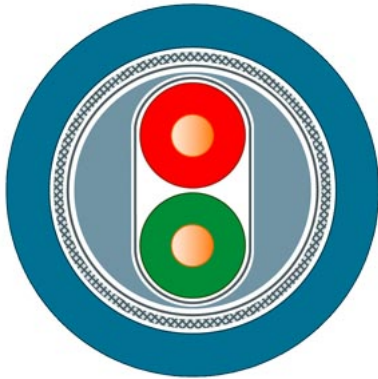


product type designation

product description



PROFIBUS FC Process Cable GP

Bus cable (2-core), sold by the meter, unassembled

PROFIBUS FC Process Cable Bus cable for IEC 61158-2 Sheath color blue for Ex applications 2-core shielded Sold by the meter Delivery length max. 1000 m Minimum order 20 m

suitability for use

For use in fieldbus systems according to IEC 61158-2 (e.g. PROFIBUS PA), suitable for Ex applications

cable designation

02YSY (ST) CY 1x2x1,0/2,55-100 BL OE FR

electrical data

attenuation factor per length

- at 38.4 kHz / maximum

0.003 dB/m

impedance

- rated value
- at 31.25 kHz

100 Ω

100 Ω

relative symmetrical tolerance

- of the characteristic impedance at 31.25 kHz

20 %

loop resistance per length / maximum

44 mΩ/m

shield resistance per length / maximum

6.5 Ω/km

capacity per length / at 1 kHz

92 pF/m

inductance per length

0.65 μH/m

operating voltage

- RMS value

80 V

mechanical data

number of electrical cores

2

design of the shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tinned copper wires

type of electrical connection / FastConnect

Yes

outer diameter

- of inner conductor
- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

1.05 mm

2.55 mm

5.4 mm

8 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.4 mm

material

- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

polyethylene (PE)

PVC

PVC

color

- of the insulation of data wires
- of cable sheath

red/green

blue

bending radius

- with single bend / minimum permissible

40 mm

<ul style="list-style-type: none"> with multiple bends / minimum permissible 	80 mm
tensile load / maximum	150 N
weight per length	103 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation during storage during transport during installation note 	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -20 ... +80 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
ambient condition / for operation	Transfer rate of cable: 31.25 Kbit/s
fire behavior	flame resistant according to IEC 60332-3-24 (Category C)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	conditional resistance Conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	No Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG / CL3 / Sun Res
UL/ETL style / 600 V Rating	Yes
certificate of suitability	
<ul style="list-style-type: none"> EAC approval CE marking RoHS conformity 	Yes Yes Yes
Marine classification association	
<ul style="list-style-type: none"> American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL) Lloyds Register of Shipping (LRS) Nippon Kaiji Kyokai (NK) Polski Rejestr Statkow (PRS) 	No No No No No No No
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdIxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
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