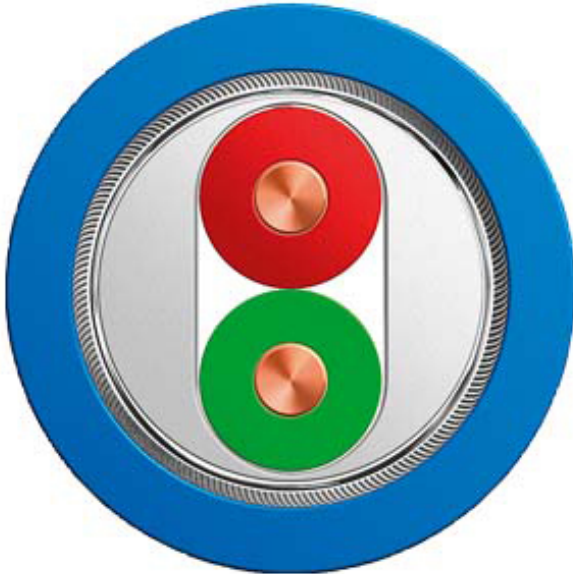


Product type designation

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	
Damping ratio per length	
• at 38.4 kHz / maximum	0.003 dB/m
Impedance	
• Rated value	100 Ω
• at 31.25 kHz	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 tin-plated copper wires
Type of electrical connection / FastConnect	Yes
Outer diameter <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath 	PE PVC PVC
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	red/green blue
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	40 mm 80 mm
Tensile load / maximum	150 N
Weight per length	103 kg/km

Permitted 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
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C)
Class of burning behaviour / according to EN 13501-6	Fca
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 properties, functions, components / general

Product feature	
• halogen-free	No
• silicon-free	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	
• CE marking	Yes
• RoHS conformity	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• Bureau Veritas (BV)	No
• Det Norske Veritas (DNV)	No
• Germanische Lloyd (GL)	No
• Lloyds Register of Shipping (LRS)	No
• Nippon Kaiji Kyokai (NK)	No
• Polski Rejestr Statkow (PRS)	No

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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