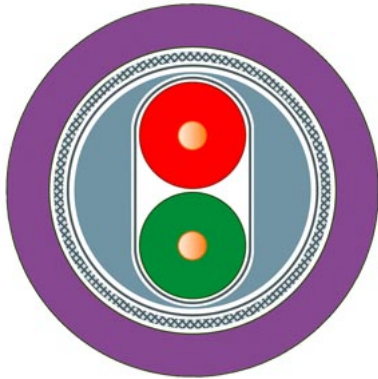


product type designation

product description



PROFIBUS FC Standard Cable GP

Standard bus cable (2 wires), preferred length, not assembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 100 m.

suitability for use
cable designation
wire length

Standard cable specially designed for fast, permanent installation
02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
100 m

electrical data

attenuation factor per length	
• at 9.6 kHz / maximum	0.0025 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	0.042 dB/m
impedance	
• rated value	150 Ω
• at 9.6 kHz	270 Ω
• at 38.4 kHz	185 Ω
• at 3 MHz ... 20 MHz	150 Ω
relative symmetrical tolerance	
• of the characteristic impedance at 9.6 kHz	10 %
• of the characteristic impedance at 38.4 kHz	10 %
• of the characteristic impedance at 3 MHz ... 20 MHz	10 %
loop resistance per length / maximum	110 mΩ/m
shield resistance per length / maximum	9.5 Ω/km
capacity per length / at 1 kHz	28.5 pF/m
operating voltage	
• RMS value	100 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	
• of inner conductor	0.65 mm
• of the wire insulation	2.55 mm
• of the inner sheath of the cable	5.4 mm
• of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
• of the wire insulation	polyethylene (PE)
• of the inner sheath of the cable	PVC
• of cable sheath	PVC
color	

<ul style="list-style-type: none"> ● of the insulation of data wires ● of cable sheath 	red/green Violet
bending radius	
<ul style="list-style-type: none"> ● with single bend / minimum permissible ● with multiple bends / minimum permissible 	37.5 mm 75 mm
tensile load / maximum	100 N
weight per length	78 kg/km

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> ● during operation ● during storage ● during transport ● during installation ● note 	-40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -40 ... +75 °C
fire behavior	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)
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 	oil resistant according to IEC 60811-2-1 (4 h / 70°C) 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(ETL)us, CMG / (ETL)us CL3 / Sun Res
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
certificate of suitability	
<ul style="list-style-type: none"> ● EAC approval ● CE marking ● UL approval ● RoHS conformity 	Yes 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
reference code	
<ul style="list-style-type: none"> ● according to IEC 81346-2 ● according to IEC 81346-2:2019 	WG WGB

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/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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