

product type designation

product description



PROFIBUS FC Standard Cable GP

Standard bus cable (2-core), spool box, unassembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 100 m in SPOOL box box:

suitability for use	Standard cable specially designed for fast, permanent installation
cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
wire length	100 m
electrical data	
attenuation factor per length	
<ul style="list-style-type: none"> at 9.6 kHz / maximum at 38.4 kHz / maximum at 4 MHz / maximum at 16 MHz / maximum 	0.0025 dB/m 0.004 dB/m 0.022 dB/m 0.042 dB/m
impedance	
<ul style="list-style-type: none"> rated value at 9.6 kHz at 38.4 kHz at 3 MHz ... 20 MHz 	150 Ω 270 Ω 185 Ω 150 Ω
relative symmetrical tolerance	
<ul style="list-style-type: none"> of the characteristic impedance at 9.6 kHz of the characteristic impedance at 38.4 kHz of the characteristic impedance at 3 MHz ... 20 MHz 	10 % 10 % 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> of inner conductor of the wire insulation of the inner sheath of the cable of cable sheath 	0.65 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 	polyethylene (PE) PVC

<ul style="list-style-type: none"> 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	80 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 Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
fire behavior	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(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 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

last modified: 10/30/2021 

