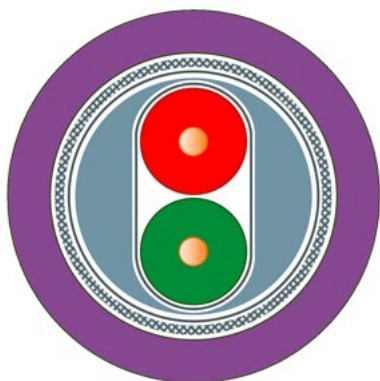


product type designation

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

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

| | |
|-------------------------|-------------|
| • 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 m Ω /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 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(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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