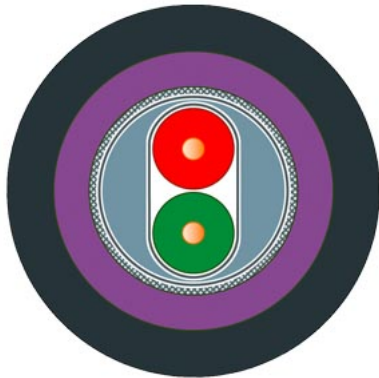


product type designation

product description



PROFIBUS FC Ground Cable

Special bus cable (2-core) with additional protective jacket, sold by the meter, unassembled

PROFIBUS FC UNDERGROUND Cable, Underground cable 2-core shielded, sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.

suitability for use
cable designation

Used for buried cables

02YSY (ST) CY2Y 1x2x0,64/2,55-150 SW KF 40

electrical data

attenuation factor per length

- 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

- 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

- 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

- 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

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


0.65 mm
2.55 mm
5.4 mm
10.8 mm

The cable (diameter 8.0 mm +0.4 mm) has an additional black outer cover (diameter 10.8 mm +0.5 mm) as protection against damage if laid in the ground. because of outer diameter > 8 mm: Bus connectors can only be connected after removing the outer cover.

symmetrical tolerance of the outer diameter / of cable sheath

0.5 mm

material

| | |
|---|--|
| <ul style="list-style-type: none"> • of the wire insulation • of the inner sheath of the cable • of cable sheath | polyethylene (PE) PVC PE/PVC; PVC (sheath of the cable), PE (additional outer sheath) |
| color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath | red/green Black |
| bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 41 mm 81 mm |
| tensile load / maximum | 100 N |
| weight per length | 117 kg/km |
| ambient conditions | |
| ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 |
| fire behavior | flammable |
| 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 | oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance |
| radiological resistance / to UV radiation | resistant / Sunlight resistant acc. to UL 444 Sec. 7.12 |
| 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 | No |
| UL/ETL style / 600 V Rating | No |
| certificate of suitability | CE, FCC, IC, cULus |
| <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 |
| 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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