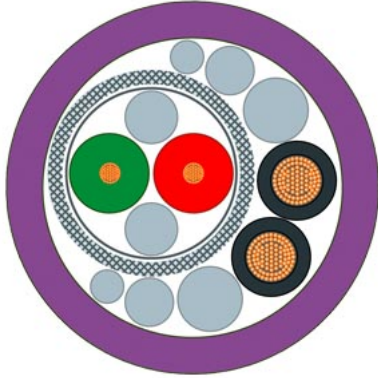


product type designation

product description



PROFIBUS Hybrid Standard Cable GP

Hybrid cable (data and energy wires), product sold by meter, unassembled

PROFIBUS hybrid standard cable GP, Cable with 2xCU (1.5 mm²) and 2xCU (0.64mm) shielded ET 200, sold by the meter, Delivery length max. 1000 m Minimum order quantity: 20 m

suitability for use

Trailing-type, hybrid cable used for supplying data and power to ET 200pro

cable designation

02Y(ST)C 1x2x0.65/2.56-150LI LIY-Z Y 2x1x1.5 VI

electrical data

attenuation factor per length

| | |
|-------------------------|------------|
| • at 9.6 kHz / maximum | 0.004 dB/m |
| • at 38.4 kHz / maximum | 0.004 dB/m |
| • at 4 MHz / maximum | 0.025 dB/m |
| • at 16 MHz / maximum | 0.049 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

138 Ω/km

shield resistance per length / maximum

10 Ω/km

insulation resistance coefficient

20 GΩ·m

operating voltage / maximum

80 V

capacity per length / at 1 kHz

30 pF/m

operating voltage / RMS value

300 V

conductor cross section / of the power line

1.5 mm²

continuous current / of the power lines

7.5 A

mechanical data

design of the shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

number of electrical cores

4

type of electrical connection / FastConnect

No

outer diameter

| | |
|--------------------------|---------|
| • of inner conductor | 0.67 mm |
| • of the wire insulation | 2.56 mm |
| • of cable sheath | 11 mm |

symmetrical tolerance of the outer diameter / of cable sheath

0.5 mm

material

| | |
|--|--|
| <ul style="list-style-type: none"> • of the wire insulation • of cable sheath | polyethylene (PE) PVC |
| color <ul style="list-style-type: none"> • of the insulation of data wires • of the power line insulation • of cable sheath | red / green Black Violet |
| bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 44 mm 125 mm |
| number of bending cycles | 1000000; For use in cable carriers, for 1 million bending cycles with a bending radius of 125 mm and an acceleration of 2.5 m/s ² |
| tensile load / maximum | 450 N |
| weight per length | 140 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 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0490 |
| fire behavior | flame-retardant according to IEC 60332-1-2 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease | Conditional resistance Conditional resistance |
| radiological resistance / to UV radiation | not 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 3047254 CMG FT4 75°C |
| UL/ETL style / 600 V Rating | Yes |
| certificate of suitability <ul style="list-style-type: none"> • EAC approval • RoHS conformity | Yes Yes |

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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last modified:

5/21/2021 