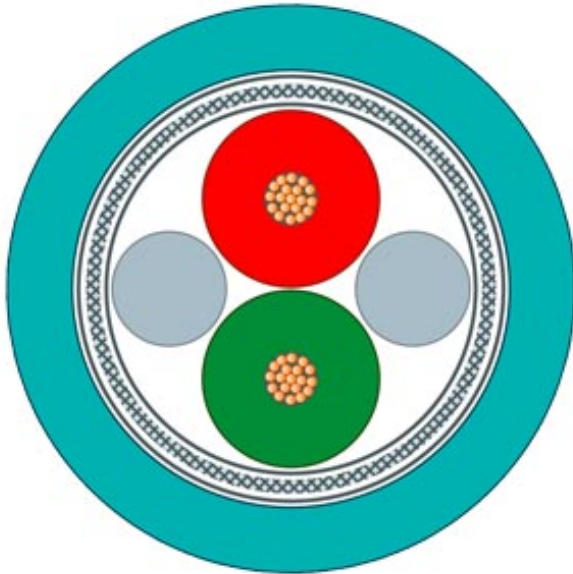


product type designation

product description

PROFIBUS Festoon Cable GP

Flexible bus cable (2-core), sold by the meter, unassembled PROFIBUS FESTOON Cable GP for festoon suspension, 2-core shielded max. acceleration: 4 m/QS min. 5 million bending cycles, sold by the meter, Delivery unit: max. 1000 m, Minimum order quantity: 20 m



| | |
|--|--|
| suitability for use | Specially for festoon attachment |
| cable designation | 02YS (ST) CY 1 x 2 x 0,65/2,56 LI petrol FR |
| electrical data | |
| damping ratio 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 | 0.003 dB/m 0.004 dB/m 0.025 dB/m 0.049 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 | 10 % 10 % |

| | |
|---|------------|
| <ul style="list-style-type: none"> • of the characteristic impedance at 3 MHz ... 20 MHz | 10 % |
| loop resistance per length / maximum | 133 mΩ/m |
| shield resistance per length / maximum | 19 Ω/km |
| insulation resistance coefficient | 16000 GΩ·m |
| capacity per length / at 1 kHz | 28 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 tin-plated copper wires |
| type of electrical connection / FastConnect | No |
| 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 | 0.67 mm 2.56 mm 5.8 mm 8 mm |
| symmetrical tolerance of the outer diameter / of cable sheath | 0.3 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 cable sheath | red/green petrol |
| bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with continuous bending | 30 mm 70 mm |
| tensile load / maximum | 80 N |
| weight per length | 64 kg/km |

ambient conditions

| | |
|---|--|
| ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -40 ... +80 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 |
| burning behavior | flame resistant according to IEC 60332-3-24 (Category C) |
| 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 | conditional resistance 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 | No |
| <ul style="list-style-type: none"> • silicon-free | Yes |

standards, specifications, approvals

| | |
|---|-------------------------------------|
| UL/ETL listing / 300 V Rating | Yes; CMG / PLCT / Sun Res / Oil Res |
| UL/ETL style / 600 V Rating | Yes |
| certificate of suitability | |
| <ul style="list-style-type: none"> • EAC approval | Yes |
| <ul style="list-style-type: none"> • CE marking | Yes |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) | No |
| <ul style="list-style-type: none"> • Bureau Veritas (BV) | No |
| <ul style="list-style-type: none"> • Det Norske Veritas (DNV) | No |
| <ul style="list-style-type: none"> • Germanische Lloyd (GL) | No |
| <ul style="list-style-type: none"> • Lloyds Register of Shipping (LRS) | No |
| <ul style="list-style-type: none"> • Nippon Kaiji Kyokai (NK) | No |
| <ul style="list-style-type: none"> • Polski Rejestr Statkow (PRS) | No |

further information / internet-Links

| | |
|---|---|
| Internet-Link | |
| <ul style="list-style-type: none"> • to website: Selector TIA Selection Tool | http://www.siemens.com/snst |
| <ul style="list-style-type: none"> • to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> • to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx Download Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |

last modified: 10/12/2020