

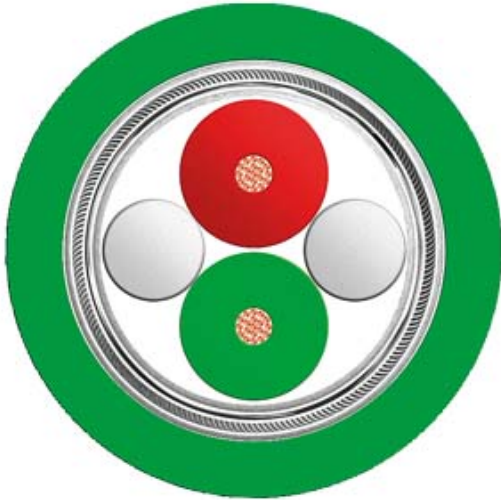
Product type designation

Product description

PROFIBUS Festoon Cable GP

Flexible bus cable (2-core), sold by the meter, unassembled
SIMATIC NET, PROFIBUS FESTOON CABLE GP FOR
FESTOONED CABLING, 2-WIRE, SHIELDED, MAX.

ACCELERATION: 4 M/QS, MIN. 5 MIO BENDING CYCLES, SOLD
BY THE METER, MAX. CONSIGNMENT: 1000 M, MIN. ORDERING
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 	<p>0.003 dB/m</p> <p>0.004 dB/m</p> <p>0.025 dB/m</p> <p>0.049 dB/m</p>
Impedance	
<ul style="list-style-type: none"> • Rated value • at 9.6 kHz • at 38.4 kHz • at 3 MHz ... 20 MHz 	<p>150 Ω</p> <p>270 Ω</p> <p>185 Ω</p> <p>150 Ω</p>
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 	<p>10 %</p> <p>10 %</p> <p>10 %</p>
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	

- 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	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 	<p>0.67 mm</p> <p>2.56 mm</p> <p>5.8 mm</p> <p>8 mm</p>
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 	<p>PE</p> <p>PVC</p>
Color <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath 	<p>red / green</p> <p>petrol</p>
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with continuous bending 	<p>30 mm</p> <p>70 mm</p>
Tensile load / maximum	80 N
Weight per length	64 kg/km

Permitted ambient conditions

Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • Note 	<p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>electrical properties measured at 20 Cel, tests according to DIN 47250 part 4 respectively DIN VDE 0472</p>
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C)
Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease • to water 	<p>Conditional resistance</p> <p>Conditional resistance</p> <p>Conditional resistance</p>
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property <ul style="list-style-type: none"> • halogen-free 	No
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- silicon-free

Yes

Standards, specifications, approvals

Certificate of suitability

- CE marking

Yes

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS)
- Bureau Veritas (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

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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