

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

• at 9.6 kHz / maximum	0.003 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	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 • 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 • of the wire insulation • of cable sheath	PE PVC
Color • of the insulation of data wires • of cable sheath	red/green petrol
Bending radius • with single bend / minimum permissible • with continuous bending	30 mm 70 mm
Tensile load / maximum	80 N
Weight per length	64 kg/km

Permitted ambient conditions

Ambient temperature • 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)
Chemical resistance • to mineral oil	conditional resistance

• to grease • to water	Conditional resistance
Radiological resistance / to UV radiation	conditional resistance
	resistant

Product properties, functions, components / general

Product feature	
• halogen-free • silicon-free	No 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	
• 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/industry/infocenter http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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