

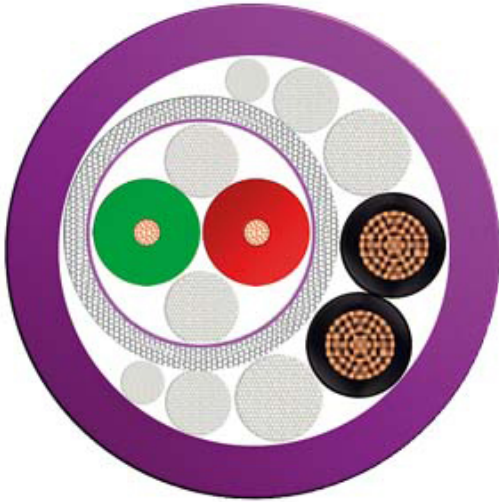
Product type designation

Product description

PROFIBUS Hybrid Robust Cable

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

SIMATIC NET, PROFIBUS HYBRID ROBUST CABLE, NON-WELDING, TRAILING TYPE CABLE, WITH 2XCU (1.5 QMM) AND 2XCU 0.64 MM) SHIELDED, ET200 SOLD BY THE METER, MAX. LENGTH: 1000 M MIN. LENGTH: 20 M



Suitability for use

Rugged cable for supplying data and power to ET 200pro under conditions of high mechanical loading. Cable resistance to weld spatter according to HD22.2 S3 / 5

Cable designation

02Y(ST)C 1x2x0.65/2.56-150LI LIH-Z 11Y 2x1x1.5 VI FRNC

Electrical data

Damping ratio 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

Capacity per length / at 1 kHz

30 pF/m

Operating voltage / RMS value	300 V
Conductor cross section / of the power wire	1.5 mm ²
Continuous current / of the power wires	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 <ul style="list-style-type: none"> • of inner conductor • of the wire insulation • of cable sheath 	0.67 mm 2.56 mm 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 	PE PUR
Color <ul style="list-style-type: none"> • of the insulation of data wires • of the power wire 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	3000000; For use in cable carriers, for 3 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	135 kg/km

Permitted 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
Burning behavior	flame-retardant according to IEC 60332-1-2
Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease 	Resistant Resistant
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property	
• halogen-free	Yes
• silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	
• RoHS conformity	Yes

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/automation/net/catalog
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

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