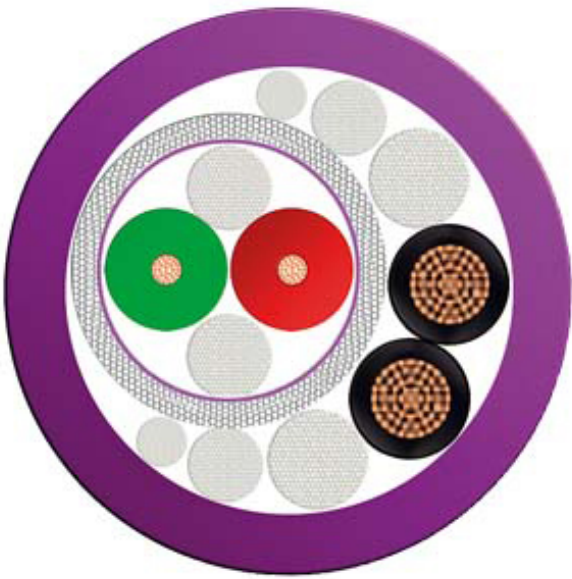


Product type designation
Product description

PROFIBUS Hybrid Robust Cable
Hybrid cable (data and energy wires), product sold by meter, unassembled
SIMATIC NET, PROFIBUS HYBRID ROBUST CABLE, WELD-SPATTER RESISTANT, 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 mm²
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 • 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 • of the wire insulation • of cable sheath	PE PUR
Color • of the insulation of data wires • of the power wire insulation • of cable sheath	red / green Black Violet
Bending radius • 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/s²
Tensile load / maximum	450 N
Weight per length	135 kg/km

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation	-40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -40 ... +75 °C
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• Note	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	
• to mineral oil	Resistant
• to grease	Resistant
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product feature	
• halogen-free	Yes
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; CMX
UL/ETL style / 600 V Rating	No
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/industry/infocenter
• 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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