

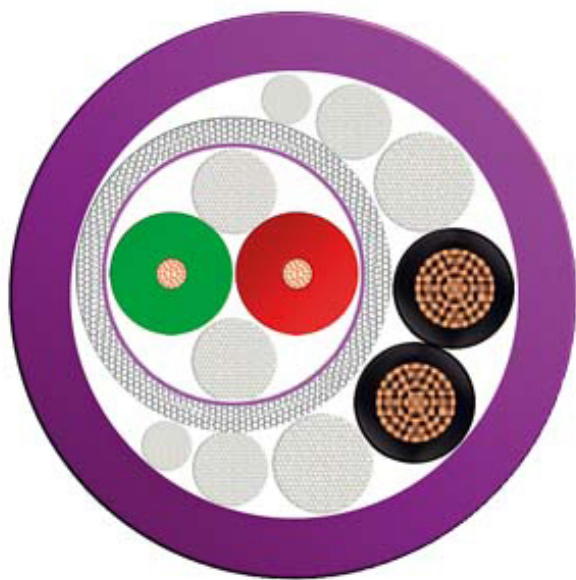
Product type designation

Product description

PROFIBUS Hybrid Standard Cable GP

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

SIMATIC NET, PROFIBUS HYBRID STANDARD CABLE GP, CABLE WITH 2XCU(1.5 SQMM) AND 2XCU (0.64 MM) SHIELDED, ET200 SOLD BY THE METER, MAX. LENGTH: 1000 M MIN. LENGTH: 20 M



Suitability for use	Trailing-type, hybrid cable used for supplying data and power to ET 200pro
Cable designation	02Y(ST)C 1x2x0.65/2.56-150LI LIY-Z Y 2x1x1.5 VI
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
Insulation resistance coefficient	20 GΩ·m
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	0.67 mm
• of the wire insulation	2.56 mm
• of cable sheath	11 mm
Symmetrical tolerance of the outer diameter / of cable sheath	0.5 mm
Material	
• of the wire insulation	PE
• of cable sheath	PVC
Color	
• of the insulation of data wires	red / green
• of the power wire insulation	Black
• of cable sheath	Violet
Bending radius	
• with single bend / minimum permissible	44 mm
• with multiple bends / minimum permissible	125 mm
Number of bending cycles	1000000; For use in cable carriers, for 1 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	140 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +75 °C
• during storage	-40 ... +75 °C
• during transport	-40 ... +75 °C
• during installation	-40 ... +75 °C

• 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	Conditional resistance
• to grease	Conditional resistance
Radiological resistance / to UV radiation	not resistant

Product properties, functions, components / general

Product feature	
• halogen-free	No
• silicon-free	Yes

Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; CMG
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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