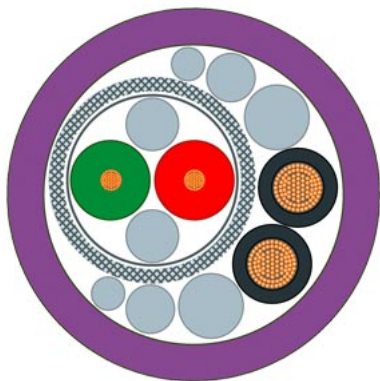


product type designation

product description



suitability for use

PROFIBUS Hybrid Robust Cable

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

PROFIBUS hybrid robust cable, trailable, welding bead-resistant cable with 2xCU (1.5 mm<sup>2</sup>) and 2xCU 0.64 mm) shielded, ET 200 sold by the meter, delivery unit max. 1000 m minimum order quantity: 20 m .

cable designation

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

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

electrical data

attenuation factor per length

- at 9.6 kHz / maximum
- at 38.4 kHz / maximum
- at 4 MHz / maximum
- at 16 MHz / maximum

0.004 dB/m  
0.004 dB/m  
0.025 dB/m  
0.049 dB/m

impedance

- rated value
- at 9.6 kHz
- at 38.4 kHz
- at 3 MHz ... 20 MHz

150 Ω  
270 Ω  
185 Ω  
150 Ω

relative symmetrical tolerance

- 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

10 %  
10 %  
10 %

loop resistance per length / maximum

138 Ω/km

shield resistance per length / maximum

10 Ω/km

operating voltage / maximum

80 V

capacity per length / at 1 kHz

30 pF/m

operating voltage / RMS value

300 V

conductor cross section / of the power line

1.5 mm<sup>2</sup>

continuous current / of the power lines

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

polyethylene (PE)  
PUR

color	<ul style="list-style-type: none"><li>• of the insulation of data wires</li><li>• of the power line insulation</li><li>• of cable sheath</li></ul>	red / green Black Violet
bending radius	<ul style="list-style-type: none"><li>• with single bend / minimum permissible</li><li>• with multiple bends / minimum permissible</li></ul>	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 <sup>2</sup>
tensile load / maximum		450 N
weight per length		135 kg/km
ambient conditions		
ambient temperature	<ul style="list-style-type: none"><li>• during operation</li><li>• during storage</li><li>• during transport</li><li>• during installation</li><li>• note</li></ul>	-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
fire behavior		flame-retardant according to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6		Eca
chemical resistance	<ul style="list-style-type: none"><li>• to mineral oil</li><li>• to grease</li></ul>	Resistant Resistant
radiological resistance / to UV radiation		resistant
product features, product functions, product components / general		
product feature	<ul style="list-style-type: none"><li>• halogen-free</li><li>• silicon-free</li></ul>	Yes Yes
standards, specifications, approvals		
UL/ETL listing / 300 V Rating		Yes; CMX
UL/ETL style / 600 V Rating		No
certificate of suitability	<ul style="list-style-type: none"><li>• EAC approval</li><li>• RoHS conformity</li></ul>	Yes Yes
further information / internet links		
internet link	<ul style="list-style-type: none"><li>• to website: Selection guide for cables and connectors</li><li>• to web page: selection aid TIA Selection Tool</li><li>• to website: Industrial communication</li><li>• to website: Image database</li><li>• to website: CAX-Download-Manager</li><li>• to website: Industry Online Support</li></ul>	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a> <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
security information		
security information		Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)
Approvals / Certificates		
General Product Approval	Test Certificates	other

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[Declaration of Conformity](#)



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## Environment

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