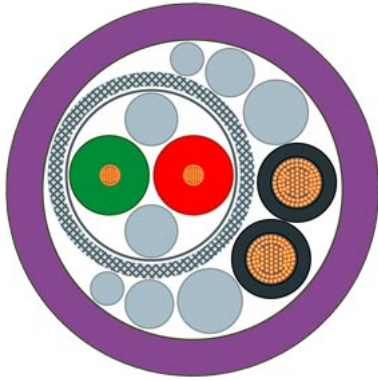


### product type designation

product description



### 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 .

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

attenuation factor 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

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     | 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 | polyethylene (PE) |
| • of cable sheath        | 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>  | <p>red / green</p> <p>Black</p> <p>Violet</p>   |
| bending radius  |   |
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>   | <p>44 mm</p> <p>125 mm</p>  |
| 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   |
| <b>ambient conditions</b>   |   |
| 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>   | <p>-40 ... +75 °C</p> <p>-40 ... +75 °C</p> <p>-40 ... +75 °C</p> <p>-40 ... +75 °C</p> <p>Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0490</p>   |
| 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>   | <p>Resistant</p> <p>Resistant</p>   |
| radiological resistance / to UV radiation   | resistant   |
| <b>product features, product functions, product components / general</b>  |   |
| product feature   |   |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>  | <p>Yes</p> <p>Yes</p>   |
| <b>standards, specifications, approvals</b>   |   |
| 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>   | <p>Yes</p> <p>Yes</p>   |
| <b>further information / internet-Links</b>   |   |
| Internet-Link   |   |
| <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Selection guide for cables and connectors</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul> | <p><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p> |

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