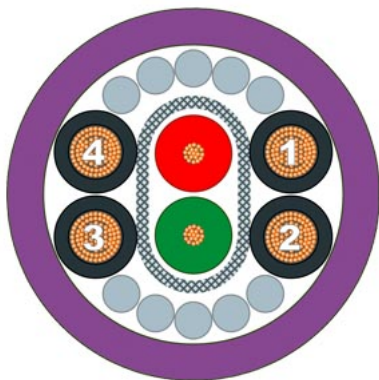


### product type designation

product description



### PROFIBUS ECOFAST Hybrid Cable GP

ECOFAST Hybrid cable (data and energy wires), preferred length, assembled with ECOFAST connector and socket

PROFIBUS ECOFAST Hybrid Cable GP, 2xCu 0.64 mm, 4x Cu 1.5 mm<sup>2</sup>, Cable pre-assembled with ECOFAST plug and socket, trailable, length 15 m.

suitability for use

Hybrid cable for connection of ECOFAST stations, UL approval

cable designation

02Y (ST)C 1x2x0.65/2.56 -150 LI LIY-Z Y 4x1x1.5 VI

wire length

15 m

### electrical data

attenuation factor per length

|                         |            |
|-------------------------|------------|
| • at 9.6 kHz / maximum  | 0.003 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

15 Ω/km

insulation resistance coefficient

20 GΩ·m

operating voltage / maximum

80 V

capacity per length / at 1 kHz

30 pF/m

operating voltage / RMS value

600 V

conductor cross section / of the power line

1.5 mm<sup>2</sup>

continuous current / of the power lines

12 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

6

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

0.3 mm

material

|                          |                   |
|--------------------------|-------------------|
| • of the wire insulation | polyethylene (PE) |
|--------------------------|-------------------|

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>   | PVC  |
| 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<br>Black<br>Violet   |
| bending radius  |  |
| <ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>   | 110 mm   |
| number of bending cycles  | 1000000; For use in cable carriers, for 1 million bending cycles with a bending radius of 166 mm (15x D) and an acceleration of 4.0 m/s <sup>2</sup>   |
| tensile load / maximum  | 300 N  |
| weight per length   | 154 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>   | -30 ... +80 °C<br>-30 ... +80 °C<br>-30 ... +80 °C<br>-30 ... +80 °C<br>Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0490   |
| fire behavior   | flame-retardant according to IEC 60332-3-24 (Category C)   |
| chemical resistance   |  |
| <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>   | Conditional resistance<br>Conditional resistance   |
| radiological resistance / to UV radiation   | resistant  |
| protection class IP   | IP65   |
| <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>  | Yes<br>Yes   |
| <b>standards, specifications, approvals</b>   |  |
| UL/ETL listing / 300 V Rating   | No   |
| UL/ETL style / 600 V Rating   | Yes; CM / CL3 / SunRes / OilRes  |
| certificate of suitability  |  |
| <ul style="list-style-type: none"> <li>• EAC approval</li> <li>• RoHS conformity</li> </ul>   | Yes<br>Yes   |
| <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> | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

last modified:

5/21/2021 

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

6XV18603PN15