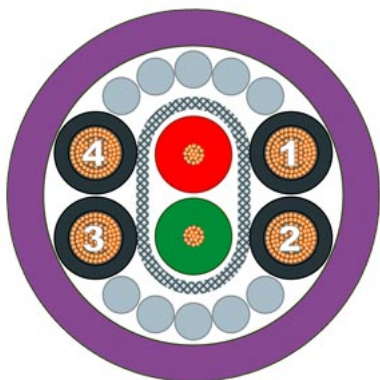


### product type designation

### 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.

Technical Product Detail Page

<https://i.siemens.com/1P6XV1860-3PN15>

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	
<ul style="list-style-type: none"> <li>• of the wire insulation</li> <li>• of cable sheath</li> </ul>	polyethylene (PE) 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 Black 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 -30 ... +80 °C -30 ... +80 °C -30 ... +80 °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 60332-3-24 (Category C)
chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	Conditional resistance 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 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 Yes
<b>further information / internet links</b>	
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 web page: SiePortal</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://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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

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Approvals / Certificates

General Product Approval



[Declaration of Con-  
formity](#)



[Manufacturer Declara-  
tion](#)

[China RoHS](#)

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