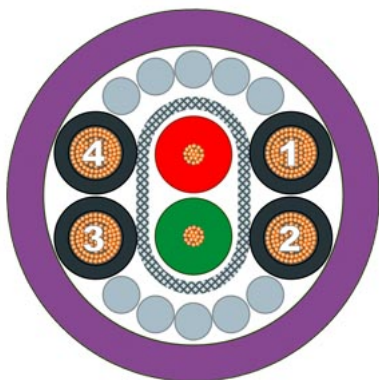


product type designation

product description



PROFIBUS ECOFAST Hybrid Cable

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

PROFIBUS ECOFAST Hybrid Cable, 2xCu 0.64 mm, 4x Cu 1.5 mm², Cable pre-assembled with ECOFAST plug and socket, trailable, length 0.5 m.

Technical Product Detail Page

<https://i.siemens.com/1P6XV1830-7BH05>

suitability for use

Hybrid cable for connection of ECOFAST stations

cable designation

02Y (ST)C 1 x 2 x 0.65/2.56 - 150 LI LIH-Z 11Y 4 x 1 x 1.5 VI FRNC

wire length

0.5 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

100 V

conductor cross section / of the power line

1.5 mm²

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"> • of the wire insulation • of cable sheath | polyethylene (PE) PUR |
| color | |
| <ul style="list-style-type: none"> • of the insulation of data wires • of the power line insulation • of cable sheath | red / green Black Violet |
| bending radius | |
| <ul style="list-style-type: none"> • with multiple bends / minimum permissible | 82.5 mm |
| number of bending cycles | 5000000; For use in cable carriers, for 5 million bending cycles with a bending radius of 82.5 mm (7.5x D) and an acceleration of 2.5 m/s ² |
| tensile load / maximum | 300 N |
| weight per length | 150 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C Electrical properties measured at 20 Cel, verification according to DIN 47250 part 4 respectively DIN VDE 0472 |
| fire behavior | flame-retardant according to IEC 60332-1 |
| chemical resistance | |
| <ul style="list-style-type: none"> • to mineral oil • to grease | Conditional resistance Conditional resistance |
| radiological resistance / to UV radiation | resistant |
| protection class IP | IP65 |
| product features, product functions, product components / general | |
| product feature | |
| <ul style="list-style-type: none"> • halogen-free • silicon-free | Yes Yes |
| standards, specifications, approvals | |
| UL/ETL listing / 300 V Rating | No |
| UL/ETL style / 600 V Rating | No |
| certificate of suitability | |
| <ul style="list-style-type: none"> • EAC approval • RoHS conformity | Yes Yes |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAX-Download-Manager • to website: Industry Online Support | https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com |
| security information | |
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Approvals / Certificates

General Product Approval



[Declaration of Con-
formity](#)



[Manufacturer Declara-
tion](#)

[China RoHS](#)

General Product Ap-
proval

Maritime application



last modified:

1/12/2026