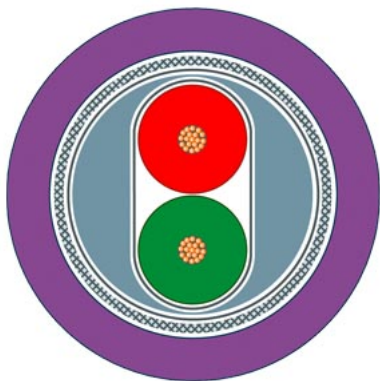


product type designation

product description



PROFIBUS FC Flexible Cable

Flexible bus cable (2-core), sold by the meter, unassembled

PROFIBUS FC flexible Cable GP, 2-wire, shielded, special configuration for quick assembly delivery unit max. 1000 m minimum order quantity 20 m sold by the meter.

suitability for use

For occasionally moved machine parts

cable designation

02YH (ST) C11Y 1x2x0,65/2,56-150 LI KF40 FRNC FC VI

electrical data

attenuation factor per length

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

0.003 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

133 mΩ/m

shield resistance per length / maximum

15 Ω/km

insulation resistance coefficient

16000 GΩ·m

capacity per length / at 1 kHz

28 pF/m

operating voltage

- RMS value

80 V

mechanical data

number of electrical cores

2

design of the shield

Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires

type of electrical connection / FastConnect

Yes

outer diameter

- of inner conductor
- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

0.67 mm
2.56 mm
5.4 mm
8 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.4 mm

material

- of the wire insulation
- of the inner sheath of the cable
- of cable sheath

polyethylene (PE)
FRNC
PUR (TPE-U)

| | |
|---|---|
| color | |
| <ul style="list-style-type: none"> • of the insulation of data wires • of cable sheath | red/green Violet |
| bending radius | |
| <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 40 mm 120 mm |
| tensile load / maximum | 100 N |
| weight per length | 70 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation • note | -20 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 |
| ambient condition / for operation | Limited segment length (see manual for PROFIBUS networks) |
| fire behavior | flame resistant according to IEC 60332-1-2 |
| class of burning behaviour / according to EN 13501-6 | Eca |
| chemical resistance | |
| <ul style="list-style-type: none"> • to mineral oil • to grease • to water | oil resistant according to IEC 60811-2-1 (7x24h/90°C) resistant conditional resistance |
| radiological resistance / to UV radiation | resistant |
| 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 | Yes; c(UL)us, CMX |
| UL/ETL style / 600 V Rating | No |
| certificate of suitability | |
| <ul style="list-style-type: none"> • EAC approval • CE marking • RoHS conformity | Yes Yes Yes |
| Marine classification association | |
| <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) | No No No No No No No |
| reference code | |
| <ul style="list-style-type: none"> • according to IEC 81346-2 • according to IEC 81346-2:2019 | WG WGB |
| 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 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://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com |
| 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 www.siemens.com/cybersecurity-industry. 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 <https://www.siemens.com/cert>. (V4.7)

| Approvals / Certificates | |
|--------------------------|-------------|
| General Product Approval | Environment |

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[Confirmation](#)

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8/8/2024