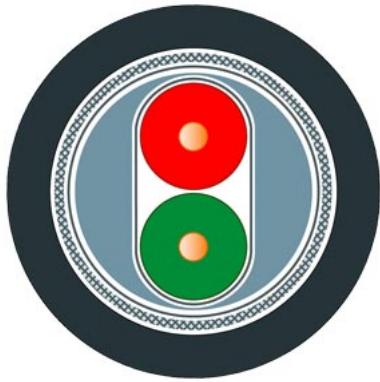


## Data sheet

6XV1830-0GH10

product type designation

product description



PROFIBUS FC Food Cable

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

PROFIBUS FC FOOD bus cable with PE outer sheath for use in the food and beverage industry 2-core shielded, sold by the meter delivery unit max. 1000 m minimum order quantity 20 m.

Technical Product Detail Page

<https://i.siemens.com/1P6XV1830-0GH10>

suitability for use

For use in the food, beverages and tobacco industries

cable designation

02YSY (ST) C2Y 1x2x0,64/2,55-150 KF 40

wire length

sold by the meter

electrical data

attenuation factor per length

- at 9.6 kHz / maximum 0.0025 dB/m
- at 38.4 kHz / maximum 0.004 dB/m
- at 4 MHz / maximum 0.022 dB/m
- at 16 MHz / maximum 0.042 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

110 mΩ/m

shield resistance per length / maximum

9.5 Ω/km

capacity per length / at 1 kHz

28.5 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 0.65 mm
- of the wire insulation 2.55 mm
- of the inner sheath of the cable 5.4 mm
- of cable sheath 8 mm

symmetrical tolerance of the outer diameter / of cable sheath

0.4 mm

material

- of the wire insulation polyethylene (PE)

• of the inner sheath of the cable • of cable sheath	PVC PE; Outer cover made of PE is especially suitable for the food processing industry
color • of the insulation of data wires • of cable sheath	red/green Black
bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	30 mm 60 mm
tensile load / maximum	100 N
weight per length	67 kg/km
<b>ambient conditions</b>	
ambient temperature • during operation • during storage • during transport • during installation	-40 ... +60 °C -40 ... +60 °C -40 ... +60 °C -40 ... +60 °C
fire behavior	inflammable
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance • to mineral oil • to grease • to water	oil resistant according to IEC 60811-2-1 (4 h / 70°C) Conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature • halogen-free • silicon-free	No Yes
<b>standards, specifications, approvals</b>	
UL/ETL listing / 300 V Rating	No
UL/ETL style / 600 V Rating	No
certificate of suitability • EAC approval • CE marking • RoHS conformity	Yes Yes Yes
• resistance to air pollution / conformity according to ANSI/ISA-71.04	Yes; G3
Marine classification association • 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 Statków (PRS)	No No No No No No No
<b>further information / internet links</b>	
internet link • 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	<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://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

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## Approvals / Certificates

### General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[China RoHS](#)

### General Product Approval

[Fire safety / Physical security](#)



### Environment

[Environmental Confirmations](#)

last modified: 12/20/2025