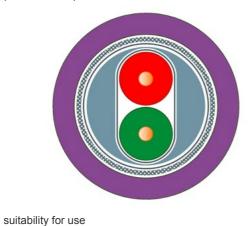
## **SIEMENS**

Data sheet 6XV1830-0EN20

## product type designation

product description



## **PROFIBUS FC Standard Cable GP**

Standard bus cable (2 wires), preferred length, not assembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 20 m.

Standard cable specially designed for fast, permanent installation

	1 7 7
cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
wire length	20 m
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	
<ul> <li>of the characteristic impedance at 9.6 kHz</li> </ul>	10 %
<ul> <li>of the characteristic impedance at 38.4 kHz</li> </ul>	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	
<ul> <li>RMS value</li> </ul>	100 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	
<ul> <li>of inner conductor</li> </ul>	0.65 mm
<ul> <li>of the wire insulation</li> </ul>	2.55 mm
<ul> <li>of the inner sheath of the cable</li> </ul>	5.4 mm
of cable sheath	8 mm
symmetrical tolerance of the outer diameter / of cable sheath	0.4 mm
material	
<ul> <li>of the wire insulation</li> </ul>	polyethylene (PE)
<ul> <li>of the inner sheath of the cable</li> </ul>	PVC

color  of the insulation of data wires  of cable sheath  violet  bending radius  with sligie bend / minimum permissible  with sligie bend / minimum permissible  with multiple bends / minimum permissible  75 mm  75 mm  75 mm  75 kg/km  mathient conditions  ambient temperature  during operation  during storage  during stor	of cable sheath	PVC
of the insulation of data wires     of cable sheath     vide to cable sheath     vide with single bend / minimum permissible     owth multiple bends / minimum permissible     vide multiple permissible     vide multiple permission     vide multiple product features     vide multiple product features     vide multiple product features     vide multiple permission     vide		1 10
or of cable sheath  bending addus  with single bend / minimum permissible  with multiple bends / minimum permissible  with multiple bends / minimum permissible  100 N  weight per length  78 kg/km  mabient conditions  ambient temperature  of uring operation  of uring storage  of uring fransport  of uring installation  inote  Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472 fire behavior  class of burning behaviour / according to EN 13501-6  chemical resistance  it to mineral oil  of grease  of to mineral oil  of grease  of to water  and loogical resistance / to UV radiation  product features, product functions, product components / general  pro		rod/green
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radiological resistance / to UV radiation resistant  product feature  • halogen-free  • Yes  standards, specifications, approvals  UL/ETL listing / 300 V Rating  UL/ETL style / 600 V Rating  • Certificate of suitability  • EAC approval  • CE marking  • UL approval  • RoHS conformity  Yes  Marine classification association  • American Bureau of Shipping Europe Ltd. (ABS)  • French marine classification society (BV)  • Det Norske Veritas (DNV)  • No  • Alogisk Regiestr of Shipping (LRS)  • Nippon Kaiji Kyokai (NK)  • Polski Rejestr Statkow (PRS)  reference code  • according to IEC 81346-2  • according to IEC 81346-2:2019  further information / internet-Links  Internet-Link  • to web page: selection aid TIA Selection Tool  • to website: Industrial communication  • to website: Industrial communication  • to website: Industrial communication  • to website: Information and Download Center	• to grease	Conditional resistance
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	• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Selection guide for cables and <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>	<ul> <li>to website: Information and Download Center</li> </ul>	http://www.siemens.com/industry/infocenter
connectors		https://sie.ag/2QdlxcP
• to website: Image database <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>	• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx-Download-Manager <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	_	http://www.siemens.com/cax
• to website: Industry Online Support  https://support.industry.siemens.com		https://support.industry.siemens.com
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