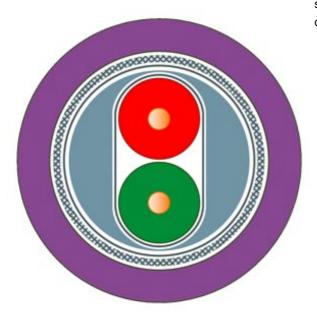
## **SIEMENS**

Data sheet 6XV1830-0JH10

product type designation product description



## **PROFIBUS FC Robust Cable**

Special bus cable (2-core), sold by the meter, unassembled PROFIBUS FC robust bus cable with PUR outer sheath for use in environments exposed to chemicals and mechanical loads, 2-core shielded, Sold by the meter Delivery length max. 1000 m Minimum order 20 m

suitability for use	For use in chemically and mechanically demanding environments
cable designation	02YSY (ST) C11Y 1x2x0,64/2,55-150 VI KF 40 FR
electrical data	
damping ratio 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 %
• 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
<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
• of cable sheath	PUR (TPE-U)
color	
<ul> <li>of the insulation of data wires</li> </ul>	red/green
• of cable sheath	Violet
bending radius	
<ul><li>with single bend / minimum permissible</li></ul>	75 mm
• with multiple bends / minimum permissible	150 mm
tensile load / maximum	100 N
weight per length	71 kg/km

ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-40 +60 °C
during storage	-40 +60 °C
during transport	-40 +60 °C
during installation	-40 +60 °C
• note	Electrical properties measured at 20 °C, tests according to DIN
	47250 part 4 respectively DIN VDE 0472
burning behavior	flame resistant according to IEC 60332-1
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	

to mineral oil
 to grease
 to water
 resistant
 conditional resistance
 resistant

## product features, product functions, product components / general

product feature

• halogen-free

• silicon-free

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	
● EAC approval	Yes
CE marking	Yes
<ul> <li>RoHS conformity</li> </ul>	Yes
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd.</li> <li>(ABS)</li> </ul>	No
Bureau Veritas (BV)	No
<ul><li>Det Norske Veritas (DNV)</li></ul>	No
Germanische Lloyd (GL)	No
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul> <li>Polski Rejestr Statkow (PRS)</li> </ul>	No

## further information / internet-Links

Internet-Link

to website: Selector TIA Selection Tool
 to website: Industrial communication
 to website: Industry Mall
 to website: Information and Download Center
 to website: Image database
 to website: CAx Download Manager
 to website: Industry Online Support
 http://www.siemens.com/simatic-net
 https://mall.industry.siemens.com
 http://www.siemens.com/industry/infocenter
 http://automation.siemens.com/bilddb
 http://www.siemens.com/cax
 https://support.industry.siemens.com

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