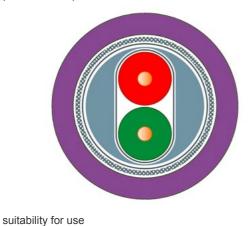
## **SIEMENS**

Data sheet 6XV1830-0EH10

## product type designation

product description



## **PROFIBUS FC Standard Cable GP**

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

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

Standard cable specially designed for fast, permanent installation

cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
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
of cable sheath	PVC
6YV18300EH10	Subject to change without notice

color	
of the insulation of data wires	red/green
of cable sheath	Violet
bending radius	
with single bend / minimum permissible	37.5 mm
with multiple bends / minimum permissible	75 mm
tensile load / maximum	100 N
weight per length	78 kg/km
ambient conditions	
ambient temperature	
<ul><li>during operation</li></ul>	-40 +75 °C
during storage	-40 +75 °C
during transport	-40 +75 °C
during installation	-40 +75 °C
• note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
fire behavior	flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to grease	Conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components	/ general
product feature	
• halogen-free	No
• silicon-free	Yes
standards, specifications, approvals	
UL/ETL listing / 300 V Rating	Yes; c(ETL)us, CMG / (ETL)us CL3 / Sun Res
UL/ETL style / 600 V Rating	Yes; cRUus AWM 21694 AWM I A/B 60°C 600V FT2
certificate of suitability	
<ul> <li>EAC approval</li> </ul>	Yes
EAC approval     CE marking	1.7
CE marking	Yes
<ul><li>CE marking</li><li>UL approval</li></ul>	Yes Yes
<ul><li>CE marking</li><li>UL approval</li><li>RoHS conformity</li></ul>	Yes
<ul> <li>CE marking</li> <li>UL approval</li> <li>RoHS conformity</li> </ul> Marine classification association	Yes Yes Yes
CE marking     UL approval     RoHS conformity  Marine classification association     American Bureau of Shipping Europe Ltd. (ABS)	Yes Yes Yes No
CE marking UL approval RoHS conformity  Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV)	Yes Yes Yes No No
CE marking UL approval RoHS conformity  Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV)	Yes Yes Yes No No No
CE marking UL approval RoHS conformity  Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Germanische Lloyd (GL)	Yes Yes Yes No No No No No
CE marking UL approval RoHS conformity  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)	Yes Yes Yes No No No No No No No
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CE marking UL approval RoHS conformity  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 Statkow (PRS)  reference code according to IEC 81346-2 according to IEC 81346-2:2019  further information / internet-Links Internet-Link	Yes Yes Yes No No No No No No No Wo Wo Wo Wo Wo No
CE marking UL approval RoHS conformity  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 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	Yes Yes Yes No No No No No No No No WG WGB
CE marking UL approval RoHS conformity  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 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	Yes Yes Yes Yes  No No No No No No No No WG WGB  http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net
CE marking UL approval RoHS conformity  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 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: Industry Mall	Yes Yes Yes Yes  No No No No No No No No No WG WGB  http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com
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