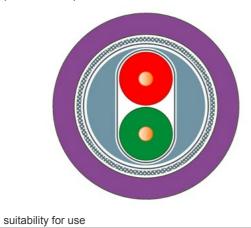
SIEMENS

Data sheet 6XV1830-1EN50

product type designation

product description



PROFIBUS FC Standard Cable GP

Standard bus cable (2-core), spool box, unassembled

PROFIBUS FC Standard, bus cable 2-wire, shielded, special configuration for Quick assembly 50 m in SPOOL box .

Standard cable specially designed for fast, permanent installation

cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
wire length	50 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	
 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 	PVC

e of the insulation of data wires e of cable sheath bending radius e with single bend / minimum permissible e with multiple bends / minimum permissible 75 mm tensile load / maximum weight per length 80 kg/km ambient conditions ambient temperature during operation during storage during installation e outing installation e note fire behavior class of burning behaviour / according to EN 13501-6 chemical resistance to water e to water e to water e to water radiological resistance / to UV radiation product features product feature product features red/green red/gree
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• to water conditional resistance radiological resistance / to UV radiation resistant product features, product functions, product components / general
radiological resistance / to UV radiation resistant product features, product functions, product components / general
product features, product functions, product components / general
product features, product functions, product components / general
• halogen-free No
• silicon-free Yes
standards, specifications, approvals
UL/ETL listing / 300 V Rating Yes; c(UL)us, CMG / CL3 / Sun Res
UL/ETL style / 600 V Rating Yes Yes
certificate of suitability
• EAC approval Yes
• CE marking Yes
• RoHS conformity Marine classification association Yes
American Bureau of Shipping Europe Ltd. (ABS) No No No No No No No No No N
French marine classification society (BV) No Det Nereke Verites (DNV)
Det Norske Veritas (DNV) No Commerciale Llevel (CL)
Germanische Lloyd (GL) No No No No No No No No No N
Lloyds Register of Shipping (LRS) No No No No No No No No No N
Nippon Kaiji Kyokai (NK) No No No No
Polski Rejestr Statkow (PRS) No
reference code
• according to IEC 81346-2 WG
according to IEC 81346-2:2019 WGB
further information / internet-Links
Internet-Link
• to web page: selection aid TIA Selection Tool http://www.siemens.com/tia-selection-tool
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