

Data sheet

6XV1821-1CN50

Product type designation

Product description

PROFIBUS PCF Fiber Optic standard cable

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

SIMATIC NET, PROFIBUS PCF FIBER OPTIC, WITH 4 PCF SIMPLEX CONNECTORS L = 50 M



Suitability for use	Cable for indoor applications
Version of the assembled FO cable	Assembled with four Simplex connectors
Cable designation	I-V(ZN)Y 2K 200/230
Cable length	50 m

Optical data

Damping ratio per length	
• at 650 nm / maximum	10 dB/km
• at 660 nm / maximum	10 dB/km
Bandwidth length product	
• at 650 nm	17 GHz·m

Mechanical data

Number of fibers / per FOC core	1
Number of FO cores / per FOC cable	2
Version of the FO conductor fiber	Step index fiber 200/230 µm
Outer diameter	
• of the optical fibers	200 µm
• of the optical fiber sheath	230 µm
• of the FOC core sheath	2.2 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
Outer diameter / of the cable	4.7 mm
Material	

• of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the fiber-optic cable sheath • of the strain relief	Quartz glass fluoridated special polymer PVC PVC Kevlar fibers
Color	
• of the FOC core sheath • of cable sheath	Orange/black Violet
Bending radius	
• with single bend / minimum permissible • with multiple bends / minimum permissible	47 mm 70 mm
Tensile load / during operation / maximum	200 N
Short-term shear force per length	100 N/cm
Weight per length	22 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation • during storage • during transport • during installation	-30 ... +70 °C -30 ... +70 °C -30 ... +70 °C -5 ... +50 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
• to mineral oil • to grease	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	Not resistant
Protection class IP	IP20

Product properties, functions, components / general

Product property	
• halogen-free • silicon-free	No Yes
Product component / Rodent protection	No
Cable length	
• for PCF FOC / with PROFIBUS / maximum	400 m

Standards, specifications, approvals

Certificate of suitability	
• RoHS conformity	Yes

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication	http://www.siemens.com/snst http://www.siemens.com/simatic-net

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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