

product type designation

product description

PROFIBUS PCF Fiber Optic standard cable

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

PROFIBUS PCF Fiber Optic, with 4 PCF Simplex connectors, length 50 m.



Technical Product Detail Page

<https://l.siemens.com/1P6XV1821-1CN50>

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

wire length

50 m

optical data

attenuation factor 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 Quartz glass
- of the optical fiber sheath Fluoridated special polymer
- of the FOC core sheath PVC
- of the fiber-optic cable sheath PVC
- of the strain relief Kevlar fibers

color

- of the FOC core sheath orange/black
- of cable sheath Violet

bending radius

- with single bend / minimum permissible 47 mm
- with multiple bends / minimum permissible 70 mm

tensile load

- during installation / short-term 800 N
- during operation / maximum 200 N

short-term shear force per length	100 N/cm	
weight per length	22 kg/km	
ambient conditions		
ambient temperature		
• during operation	-30 ... +70 °C	
• during storage	-30 ... +70 °C	
• during transport	-30 ... +70 °C	
• during installation	-5 ... +50 °C	
fire behavior	flame-resistant acc. to IEC 60332-1-2	
chemical resistance		
• to mineral oil	conditional resistance	
• to grease	conditional resistance	
radiological resistance / to UV radiation	not resistant	
protection class IP	IP20	
product features, product functions, product components / general		
product feature		
• halogen-free	No	
• silicon-free	Yes	
product component / rodent protection	No	
wire 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: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358	
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud	
• to website: Industrial communication	https://www.siemens.com/simatic-net	
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[Confirmation](#)

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