

### 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 200 m.



### Technical Product Detail Page

<https://l.siemens.com/1P6XV1821-1CT20>

### 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

200 m

### optical data

#### attenuation factor per length

- at 650 nm / maximum
- at 660 nm / maximum

10 dB/km  
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
- of the optical fiber sheath
- of the FOC core sheath

200 µm  
230 µm  
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 installation / short-term
- during operation / maximum

800 N  
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	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>	
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>	
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>	
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>	
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General Product Approval		
	<a href="#">Declaration of Con- formity</a>	
		
	<a href="#">Manufacturer Declara- tion</a>	
	<a href="#">China RoHS</a>	
General Product Approval	Maritime application	other



[Confirmation](#)

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