

product type designation	PROFIBUS PCF Fiber Optic standard cable
product description	PCF fiber-optic cable with plastic cladding, preferred length, preassembled PROFIBUS PCF Fiber Optic, with 4 PCF BFOC connectors, Length 250 m .



product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1821-1BT25
suitability for use	Cable for indoor applications
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	I-V(ZN)Y 2K 200/230
wire length	250 m

optical data	
attenuation factor per length	
<ul style="list-style-type: none"> at 650 nm / maximum at 660 nm / maximum 	10 dB/km
bandwidth length product	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> of the FOC core sheath of cable sheath 	orange/black Violet
bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	47 mm 70 mm
tensile load	
<ul style="list-style-type: none"> 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
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

security information / header	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates	
General Product Approval	



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval	Maritime application	other
--------------------------	----------------------	-------



[Confirmation](#)

last modified:

3/10/2026