

Data sheet

6XV1821-1CT20

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 Simplex connectors, length 200 m.



Technical Product Detail Page	https://i.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	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 FO 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
• 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
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