

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 300 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1821-1CT30
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	300 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	
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval	Maritime application	other
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[Confirmation](#)

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