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Data sheet **6XV1821-1CN50**

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 50 m.

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

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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
reference code	
● according to IEC 81346-2	WH
● according to IEC 81346-2:2019	WHA

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

CE — EG-Konf.   [Declaration of Conformity](#)   UKCA   CCC   [Manufacturer Declaration](#)   UL

General Product Approval	Marine / Shipping	other	Environment

Confirmation   Confirmation

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