

Data sheet

6XV1821-1CT25

Product type designation

Product description

PROFIBUS PCF Fiber Optic standard cable

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

SIMATIC NET, PROFIBUS PCF FIBER OPTIC, WITH 4 PCF SIMPLEX CONNECTORS L = 250 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	250 m

Optical data

Damping ratio 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

Permitted ambient conditions

Ambient temperature	
• during operation	-30 ... +70 °C
• during storage	-30 ... +70 °C
• during transport	-30 ... +70 °C
• during installation	-5 ... +50 °C
Burning 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 properties, functions, 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: Selector SIMATIC NET
SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAX Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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