

### Product type designation

Product description

### PROFIBUS PCF Fiber Optic standard cable

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

PROFIBUS PCF Fiber Optic, with 4 PCF Simplex connectors, Length 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	
<ul style="list-style-type: none"> <li>at 650 nm / maximum</li> </ul>	10 dB/km
<ul style="list-style-type: none"> <li>at 660 nm / maximum</li> </ul>	10 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> <li>at 650 nm</li> </ul>	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"> <li>of the optical fibers</li> </ul>	200 μm

<ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>	230 µm
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	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"> <li>• of the fiber-optic cable core</li> </ul>	Quartz glass
<ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>	Fluoridated special polymer
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	PVC
<ul style="list-style-type: none"> <li>• of the fiber-optic cable sheath</li> </ul>	PVC
<ul style="list-style-type: none"> <li>• of the strain relief</li> </ul>	Kevlar fibers
Color	
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	orange/black
<ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>	Violet
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	47 mm
<ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>	70 mm
Tensile load	
<ul style="list-style-type: none"> <li>• during installation / short-term</li> </ul>	800 N
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	200 N
Short-term shear force per length	100 N/cm
Weight per length	22 kg/km

#### Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-30 ... +70 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-30 ... +70 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-30 ... +70 °C
<ul style="list-style-type: none"> <li>• during installation</li> </ul>	-5 ... +50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>• to grease</li> </ul>	conditional resistance
Radiological resistance / to UV radiation	not resistant
Protection class IP	IP20

#### Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	No
<ul style="list-style-type: none"> <li>• silicon-free</li> </ul>	Yes
Product component / Rodent protection	No
Wire length	
<ul style="list-style-type: none"> <li>• for PCF FOC / with PROFIBUS / maximum</li> </ul>	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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