

### Product type designation

Product description

### PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, 100m ring, unassembled PROFIBUS Plastic Fiber Optic (980/1000), standard cable, 100 m ring



Suitability for use	Cable for indoor applications
Version of the assembled FO cable	For assembly with four Simplex connectors
Cable designation	I-V4Y(ZN)Y 2P 980/1000
Wire length	100 m

### Optical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>at 650 nm / maximum</li> <li>at 660 nm / maximum</li> </ul>	<p>160 dB/km</p> <p>230 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> <li>at 650 nm</li> </ul>	1 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 980/1000 µm
Outer diameter	
<ul style="list-style-type: none"> <li>of the optical fibers</li> <li>of the optical fiber sheath</li> </ul>	<p>980 µm</p> <p>1000 µm</p>

• 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	7.8 mm
Symmetrical deviation / of the outer diameter of the line	0.3 mm
Material	
• of the fiber-optic cable core	Polymethylmethacrylate (PMMA)
• of the optical fiber sheath	Fluoridated special polymer
• of the FOC core sheath	PA
• 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	100 mm
• with multiple bends / minimum permissible	150 mm
Tensile load	
• during installation / short-term	100 N
• during operation / maximum	100 N
Short-term shear force per length	100 N/cm
Weight per length	65 kg/km

#### Ambient conditions

Ambient temperature	
• during operation	-30 ... +70 °C
• during storage	-30 ... +70 °C
• during transport	-30 ... +70 °C
• during installation	50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2
Class of burning behaviour / according to EN 13501-6	Eca
Chemical resistance	
• to mineral oil	conditional resistance
• to grease	conditional resistance
Radiological resistance / to UV radiation	not resistant

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

Product feature	
• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	No
Wire length	

- for POF FOC / with PROFIBUS / maximum

80 m

## Standards, specifications, approvals

Certificate of suitability

UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA  
approval: OFN (CSA-Standard C22.2 No232)

- 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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