

### Product type designation

Product description

### PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, preferred length, preassembled

SIMATIC NET, PROFIBUS PLASTIC FIBER OPTIC, STANDARD CABLE WITH 4 BFOC CONNECTORS LENGTH = 5 M



Suitability for use	Cable for indoor applications
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	I-V4Y(ZN)Y 2P 980/1000
Cable length	5 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> <li>• of the FOC core sheath</li> </ul>	<p>980 μm</p> <p>1000 μm</p> <p>2.2 mm</p>
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	
<ul style="list-style-type: none"> <li>• of the fiber-optic cable core</li> <li>• of the optical fiber sheath</li> <li>• of the FOC core sheath</li> <li>• of the fiber-optic cable sheath</li> <li>• of the strain relief</li> </ul>	Polymethylmethacrylate (PMMA) fluoridated special polymer PA PVC Kevlar fibers
Color	
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>	Orange/black Violet
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	100 mm 150 mm
Tensile load / during operation / maximum	100 N
Short-term shear force per length	100 N/cm
Weight per length	65 kg/km

### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	-30 ... +70 °C -30 ... +70 °C -30 ... +70 °C 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> <li>• to grease</li> </ul>	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	Not resistant
Protection class IP	IP20

### Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	No Yes
Product component / Rodent protection	No
Cable length	
<ul style="list-style-type: none"> <li>• for POF FOC / with PROFIBUS / maximum</li> </ul>	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)
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes

### Further Information / Internet Links

Internet-Link	
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- 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

**last modified:**

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

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

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

<http://www.siemens.com/automation/net/catalog>

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

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

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

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