

Product type designation

Product description

PROFIBUS Plastic Fiber Optic standard cable

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

PROFIBUS Plastic Fiber Optic, Standard cable with 4 BFOC connectors, Length 1 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
Wire length	1 m

Optical data

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

<ul style="list-style-type: none"> • of the optical fiber sheath 	1000 µm
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of the fiber-optic cable core 	Polymethylmethacrylate (PMMA)
<ul style="list-style-type: none"> • of the optical fiber sheath 	Fluoridated special polymer
<ul style="list-style-type: none"> • of the FOC core sheath 	PA
<ul style="list-style-type: none"> • of the fiber-optic cable sheath 	PVC
<ul style="list-style-type: none"> • of the strain relief 	Kevlar fibers
Color	
<ul style="list-style-type: none"> • of the FOC core sheath 	orange/black
<ul style="list-style-type: none"> • of cable sheath 	Violet
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible 	100 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	150 mm
Tensile load	
<ul style="list-style-type: none"> • during installation / short-term 	100 N
<ul style="list-style-type: none"> • 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"> • during operation 	-30 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-30 ... +70 °C
<ul style="list-style-type: none"> • during transport 	-30 ... +70 °C
<ul style="list-style-type: none"> • during installation 	50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	conditional resistance
<ul style="list-style-type: none"> • to grease 	conditional resistance
Radiological resistance / to UV radiation	not resistant
Protection class IP	IP20

Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> • halogen-free 	No
<ul style="list-style-type: none"> • 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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