

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 50 m.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1821-0BN50>

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

50 m

optical data

attenuation factor per length

- at 650 nm / maximum 160 dB/km
- at 660 nm / maximum 230 dB/km

bandwidth length product

- 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

- of the optical fibers 980 µm
- of the optical fiber sheath 1000 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

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
fire 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 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	Yes; (UL) OFN
RoHS conformity	Yes
further information / internet links	
internet link	
to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
to website: Industrial communication	https://www.siemens.com/simatic-net
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General Product Approval	Maritime application	other
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