

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 15 m.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1821-0BN15>

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

15 m

optical data

attenuation factor per length

- at 650 nm / maximum
- at 660 nm / maximum

160 dB/km
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
- of the optical fiber sheath
- of the FOC core sheath

980 µm
1000 µm
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
- of the optical fiber sheath
- of the FOC core sheath
- of the fiber-optic cable sheath
- of the strain relief

Polymethylmethacrylate (PMMA)
Fluoridated special polymer
PA
PVC
Kevlar fibers

color

- of the FOC core sheath
- of cable sheath

orange/black
Violet

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

100 mm
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
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com

security information / header

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert . (V4.7)
----------------------	--

Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)



[Confirmation](#)

last modified:

3/10/2026