

Data sheet

6XV1821-0AH10

product type designation

product description

PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, sold by the meter, unassembled

PROFIBUS Plastic Fiber Optic (980/1000), standard cable, Sold by the meter
minimum order quantity 20 m max. length 500 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1821-0AH10>

suitability for use

Cable for indoor applications

version of the assembled FO cable

sold by the meter

cable designation

I-V4Y(ZN)Y 2P 980/1000

optical data

attenuation factor per length

160 dB/km

• at 650 nm / maximum

230 dB/km

• at 660 nm / maximum

bandwidth length product

1 GHz·m

• at 650 nm

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FO cable

2

version of the FO conductor fiber

Step index fiber 980/1000 µm

outer diameter

980 µm

• of the optical fibers

1000 µm

• of the optical fiber sheath

2.2 mm

• of the FOC core sheath

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

100 mm

• with single bend / minimum permissible

150 mm

• with multiple bends / minimum permissible

tensile load

100 N

• during installation / short-term

100 N

• during operation / maximum

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
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	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	
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