

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.



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

- 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
- during operation / maximum




100 N
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	
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	
reference code		
• according to IEC 81346-2	WH	
• according to IEC 81346-2:2019	WHA	
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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• to website: Industry Online Support	https://support.industry.siemens.com	
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