

### product type designation

### product description

### PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, 100m ring, unassembled

PROFIBUS Plastic Fiber Optic (980/1000), standard cable, 100 m ring.



### suitability for use

Cable for indoor applications

### version of the assembled FO cable

For assembly with four Simplex connectors

### cable designation

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

### wire length

100 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
- during operation / maximum

100 N  
100 N

#### short-term shear force per length

100 N/cm

weight per length	65 kg/km
<b>ambient conditions</b>	
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	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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#### Approvals / Certificates

General Product Approval
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[Manufacturer Declaration](#)



[Declaration of Conformity](#)



Marine / Shipping

Environment

Industrial Communication



[Confirmation](#)

[PROFINET](#)

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last modified:

11/19/2024 