

### 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 20 m.



### 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

20 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
<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
chemical resistance	
• to mineral oil	conditional resistance
• to grease	conditional resistance
radiological resistance / to UV radiation	not resistant
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
• silicon-free	Yes
product component / rodent protection	No
wire length	
• for POF FOC / with PROFIBUS / maximum	80 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
• UL approval	Yes; UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA approval: OFN (CSA standard C22.2 No. 232)
• RoHS conformity	Yes
reference code	
• according to IEC 81346-2	WH
• according to IEC 81346-2:2019	WHA
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Selection guide for cables and connectors	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://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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