

### 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 30 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

30 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   |
| 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>                     |

last modified:

2/3/2023 

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