

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 5 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

5 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 |
| 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 |
| chemical resistance | |
| • to mineral oil | conditional resistance |
| • to grease | conditional resistance |
| radiological resistance / to UV radiation | not resistant |
| protection class IP | IP20 |
| 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 |
| • 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 web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| • to website: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx-Download-Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |
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