

product type designation

product description

PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, 50m ring, unassembled

PROFIBUS Plastic Fiber Optic (980/1000), standard cable, 50 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

50 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
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 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
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
last modified:	2/3/2023 