

product type designation

product description



POF Trailing Cable

Fiber-optic cable with polyoptical fiber, sold by the meter, unassembled

POF Trailing Cable 980/1000, PROFINET, trailing cable, sold by the meter, minimum order quantity 20 m max. length 500 m.

suitability for use

Cable for moving applications (e.g. use in cable carriers)

version of the assembled FO cable

sold by the meter

cable designation

I-V4Y(ZN)11Y 2P 980/1000 FLEX UL

optical data

attenuation factor per length

- at 650 nm / maximum
- at 660 nm / maximum

180 dB/km
275 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

POF FOC 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

8 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
PUR
Kevlar fibers

color

- of the FOC core sheath
- of cable sheath

orange/black
green

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible
- with continuous bending

40 mm
55 mm
55 mm

number of bending cycles

5000000

number of torsion cycles / with torsion by ± 360° on 1 m cable length

10000

tensile load

- during installation / short-term
- during operation / maximum

400 N
100 N

short-term shear force per length	400 N/cm
continuous shear force per length	20 N/cm
weight per length	55 kg/km
ambient conditions	
ambient temperature	
• during operation	-20 ... +70 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	5 ... 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	resistant
• to grease	resistant
radiological resistance / to UV radiation	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 / for Industrial Ethernet / maximum	50 m
standards, specifications, approvals	
certificate of suitability	
• UL approval	Yes; UL-758 AWM style 5422
• 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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