

Product type designation

Product description

POF Trailing Cable

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

SIMATIC NET, POF TRAILING CABLE 980/1000, PROFINET, TRAILING CABLE, SOLD BY THE METER MIN.

LENGTH ORDERED: 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	For assembly with SC RJ or SC RJ Plug PRO connectors
Cable designation	I-V4Y(ZN)11Y 2P 980/1000 FLEX UL
Optical data	
Damping ratio per length	
• at 650 nm / maximum	180 dB/km
• at 660 nm / maximum	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	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	8 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	PUR
• of the strain relief	Kevlar fibers
Color	
• of the FOC core sheath	orange/black
• of cable sheath	green
Bending radius	
• with single bend / minimum permissible	40 mm
• with multiple bends / minimum permissible	55 mm
• with continuous bending	55 mm
Number of bending cycles	5000000
Number of torsion cycles / with torsion by $\pm 360^\circ$ on 1 m cable length	10000
Tensile load	
• during installation / short-term	400 N
• during operation / maximum	100 N
Short-term shear force per length	400 N/cm
Continuous lateral force per length	20 N/cm
Weight per length	55 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation	-20 ... +70 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	5 ... 50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
• to mineral oil	resistant
• to grease	resistant
Radiological resistance / to UV radiation	resistant

Product properties, functions, 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-758 AWM Style 5422
• RoHS conformity	Yes

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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: 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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