

Product type designation

Product description

PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, 100m ring, unassembled
SIMATIC NET, PROFIBUS PLASTIC FIBER OPTIC (980/1000),
STANDARD CABLE 100 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
Cable length	100 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 650 nm / maximum • at 660 nm / maximum 	<p>160 dB/km</p> <p>230 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	<p>980 µm</p> <p>1000 µm</p> <p>2.2 mm</p>
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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath 	Orange/black Violet
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	100 mm 150 mm
Tensile load / during operation / maximum	100 N
Short-term shear force per length	100 N/cm
Weight per length	65 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-30 ... +70 °C -30 ... +70 °C -30 ... +70 °C 50 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil • to grease 	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	Not resistant

Product properties, functions, components / general

Product property	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	No Yes
Product component / Rodent protection	No
Cable length	
<ul style="list-style-type: none"> • for POF FOC / with PROFIBUS / maximum 	80 m

Standards, specifications, approvals

Certificate of suitability	UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA approval: OFN (CSA-Standard C22.2 No232)
<ul style="list-style-type: none"> • RoHS conformity 	Yes

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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