

### product type designation

### product description

### PROFIBUS Plastic Fiber Optic Duplex Core

Fiber-optic cable with polyoptical fiber (flat dual cores), 50m ring, unassembled

PROFIBUS Plastic Fiber Optic, duplex core 50 m ring.



### suitability for use

Indoor applications with low mechanical loads (e.g. laboratory set-ups or inside cabinets), cable lengths up to 50 m

### version of the assembled FO cable

For assembly with four Simplex connectors

### cable designation

V-2Y 2x1 P 980/1000

### wire length

50 m

### optical data

#### attenuation factor per length

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

10 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

#### material

- of the fiber-optic cable core
- of the optical fiber sheath
- of the FOC core sheath

Polymethylmethacrylate (PMMA)  
Fluoridated special polymer  
PE

#### color

- of the FOC core sheath

gray

#### bending radius

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

25 mm  
25 mm

#### tensile load

- during operation / maximum

10 N

#### short-term shear force per length

30 N/cm

#### continuous shear force per length

4 N/cm

#### weight per length

7.6 kg/km

### ambient conditions

#### ambient temperature

- during operation
- during storage

-55 ... +85 °C  
-55 ... +85 °C

<ul style="list-style-type: none"> <li>• during transport</li> <li>• during installation</li> </ul>	-55 ... +85 °C -5 ... +50 °C
fire behavior	flame-resistant in accordance with the VW-1 flame test acc. to UL 1581
chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	conditional resistance conditional resistance
radiological resistance / to UV radiation	not resistant

#### product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	Yes Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> <li>• for POF FOC / with PROFIBUS / maximum</li> </ul>	80 m

#### standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes
reference code	
<ul style="list-style-type: none"> <li>• according to IEC 81346-2</li> <li>• according to IEC 81346-2:2019</li> </ul>	WH WHA

#### further information / internet links

internet link	
<ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to website: Industrial communication</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAX-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

#### security information / header

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#### Approvals / Certificates

##### General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)



##### Marine / Shipping Environment



[Confirmation](#)

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