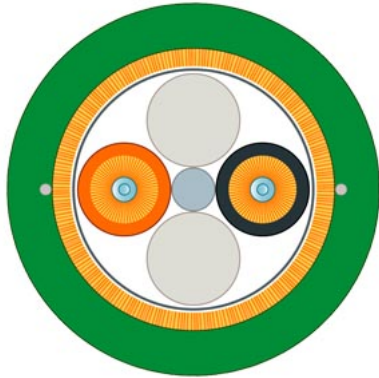


### product type designation

product description



### PCF Trailing Cable GP

PCF fiber-optic cable with plastic cladding, sold by the meter, unassembled

PCF Trailing Cable, GP (200/230), UL approval, Trailing cable, splittable, without connector, sold by the meter, max. Length 2000 m minimum order quantity: 20 m.

Technical Product Detail Page

<https://l.siemens.com/1P6XV1861-2D>

suitability for use

Cable for applications with high mechanical loading and motion (e.g. trailing cables), UL approval

version of the assembled FO cable

sold by the meter

cable designation

AT-V(ZN)Y(ZN)Y 2K 200/230

### optical data

attenuation factor per length

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

10 dB/km  
10 dB/km

bandwidth length product

- at 650 nm

17 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 200/230 µm

outer diameter

- of the optical fibers
- of the optical fiber sheath
- of the FOC core sheath

200 µm  
230 µm  
2.2 mm

symmetrical deviation / of the outer diameter of the FOC core sheath

0.1 mm

outer diameter / of the cable

8.8 mm

symmetrical deviation / of the outer diameter of the line

0.5 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

Quartz glass  
Special polymer  
PVC  
PVC  
Aramid 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

130 mm  
175 mm

number of bending cycles

5000000

tensile load

- during installation / short-term

2000 N

<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	800 N
short-term shear force per length	500 N/cm
continuous shear force per length	300 N/cm
weight per length	85 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +75 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-30 ... +75 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-30 ... +75 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> </ul>	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h
<ul style="list-style-type: none"> <li>to grease</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>to water</li> </ul>	conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	No
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> <li>for PCF FOC / for Industrial Ethernet / maximum</li> </ul>	100 m
<ul style="list-style-type: none"> <li>for PCF FOC / with PROFIBUS / maximum</li> </ul>	400 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>UL approval</li> </ul>	Yes; c(UL)us OFN FT4
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</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>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information / header</b>	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)</p>
<b>Approvals / Certificates</b>	
<b>General Product Approval</b>	

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



[Fire safety / Physical security](#)

General Product Approval	other	Environment	Industrial Communication
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[China RoHS](#)



[Confirmation](#)

[Environmental Confirmations](#)

[PROFINET](#)

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11/11/2025