

**product type designation**

product description

**FO Standard Cable GP**

Glass fiber-optic cable, preferred length, preassembled

FO Standard Cable GP (50/125), pre-assembled with 2x2 SC connectors, insertion aid, length 100 m.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1873-6AT10>

suitability for use

Cable for installation indoors and outdoors, UL approval

version of the assembled FO cable

Preassembled with four SC connectors

cable designation

AT-W(ZN)YY 2x1 G 50/125 OM2++

wire length

100 m

**optical data**

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

2.7 dB/km  
0.7 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

600 GHz-m  
1200 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

Multi-mode gradient fiber 50/125 µm, OM 2

design of the FOC core

Hollow core, filled, diameter 1400 µm

design of the fiber-optic cable

segmentable

outer diameter

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

50 µm  
125 µm  
2.9 mm

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

0.1 mm

width / of cable sheath

7.4 mm

thickness / of cable sheath

4.5 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  
Quartz glass  
PVC  
PVC  
Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black  
green

bending radius

<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	<p>45 mm</p> <p>65 mm</p>
tensile load	
<ul style="list-style-type: none"> <li>• during installation / short-term</li> <li>• during operation / maximum</li> </ul>	<p>1200 N</p> <p>500 N</p>
short-term shear force per length	600 N/cm
continuous shear force per length	400 N/cm
weight per length	40 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul>	<p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>-25 ... +80 °C</p> <p>-5 ... +50 °C</p>
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> </ul>	<p>conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation	resistant
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	<p>No</p> <p>Yes</p>
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> <li>• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / with PROFIBUS / maximum</li> </ul>	<p>5000 m</p> <p>750 m</p> <p>2000 m</p> <p>3000 m</p>
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>• UL approval</li> <li>• RoHS conformity</li> </ul>	<p>Yes; c(UL)us OFN FT4</p> <p>Yes</p>
<b>further information / internet links</b>	
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>	<p><a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a></p> <p><a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a></p> <p><a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a></p> <p><a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a></p> <p><a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a></p> <p><a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>
<b>security information / header</b>	
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval

other

Industrial Communication



[Confirmation](#)



last modified:

3/10/2026