

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 2x LC duplex connectors, length 1.0 m .



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1873-5AH10>

suitability for use

Cable for installation indoors and outdoors, UL approval

version of the assembled FO cable

Pre-assembled with 2x LC DUPLEX connectors

cable designation

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

wire length

1 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"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	<p>45 mm</p> <p>65 mm</p>
tensile load	
<ul style="list-style-type: none"> • during installation / short-term • during operation / maximum 	<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
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	<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"> • to mineral oil • to grease 	<p>conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> • halogen-free • silicon-free 	<p>No</p> <p>Yes</p>
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum • for glass FOC / with PROFIBUS / maximum 	<p>5000 m</p> <p>750 m</p> <p>2000 m</p> <p>3000 m</p>
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • UL approval • RoHS conformity 	<p>Yes; c(UL)us OFN FT4</p> <p>Yes</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to website: Industrial communication • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information / header	
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Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)



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