

Product type designation

Product description

FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled
SIMATIC NET FO STANDARD CABLE 50/125, PREASSEMBLED
WITH 2X2 BFOC CONNECTORS, INSERTION GUIDE, LENGTH 80
M



Suitability for use	Cable for installation indoors and outdoors, UL approval
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	AT-W(ZN)YY 2x1 G 50/125
Cable length	80 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 850 nm / maximum • at 1300 nm / maximum 	<p>2.7 dB/km</p> <p>0.7 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> • at 850 nm • at 1300 nm 	<p>600 GHz·m</p> <p>1200 GHz·m</p>

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	
<ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	<p>50 µm</p> <p>125 µm</p> <p>2.9 mm</p>
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	
<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 	Quartz glass Quartz glass PVC PVC Aramid fibers
Color	
<ul style="list-style-type: none"> • 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 	45 mm 65 mm
Tensile load / during operation / maximum	500 N
Short-term shear force per length	600 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	40 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-25 ... +80 °C -25 ... +80 °C -25 ... +80 °C -5 ... +50 °C
Burning 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 	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

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 glass FOC / for 100BaseFX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum 	5000 m 750 m

- for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum
- for glass FOC / with PROFIBUS / maximum

2000 m

3000 m

Standards, specifications, approvals

Certificate of suitability

- RoHS conformity

UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)
Yes

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- 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/snst>

<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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