

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
150 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 | 150 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>

last modified:

09.03.2015