

Product type designation

Product description

FO Trailing Cable GP

Glass fiber-optic cable, preferred length, preassembled
SIMATIC NET FO TRAILING CABLE GP 50/125, PREASSEMBLED
WITH 2X2 BFOC CONNECTORS, LENGTH 20 M



Suitability for use	Flexible cable for use in cable carriers for high mechanical loading, UL approval
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	AT-W(ZN)Y(ZN)Y 2G 50/125
Cable length	20 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	2.7 dB/km 0.7 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 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
Outer diameter / of the cable	10.5 mm
Symmetrical deviation / of the outer diameter of the line	0.5 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 	150 mm 200 mm
Number of bending cycles	3500000
Tensile load / during operation / maximum	800 N
Short-term shear force per length	700 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	90 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	

- | | |
|--|--------|
| • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum | 5000 m |
| • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 750 m |
| • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 2000 m |
| • for glass FOC / with PROFIBUS / maximum | 3000 m |

Standards, specifications, approvals

- | | |
|----------------------------|--|
| Certificate of suitability | UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988) |
| • RoHS conformity | Yes |

Further Information / Internet Links

- | | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • to website: Industrial communication | http://www.siemens.com/simatic-net |
| • to website: Industry Mall | https://mall.industry.siemens.com |
| • to website: Information and Download Center | http://www.siemens.com/automation/net/catalog |
| • to website: Image database | http://automation.siemens.com/bilddb |
| • to website: CAx Download Manager | http://www.siemens.com/cax |
| • to website: Industry Online Support | https://support.industry.siemens.com |

last modified: 16.03.2015