

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 SC CONNECTORS, INSERTION GUIDE, LENGTH 50 M



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

Optical data

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|---|------------------------------------|
| 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

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|--|---|
| 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> |

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|--|---|
| 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

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|---|---|
| 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

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|---|-----------|
| 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

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|---|---|
| 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 |

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