

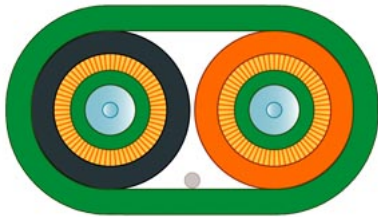
product type designation

product description

FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled

FO Standard Cable 50/125, pre-assembled with 2x2 BFOC connectors, insertion aid, length 100 m.



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| 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 OM2++ |
| wire length | 100 m |
| optical data | |
| attenuation factor per length | |
| • at 850 nm / maximum | 2.7 dB/km |
| • at 1300 nm / maximum | 0.7 dB/km |
| bandwidth length product | |
| • at 850 nm | 600 GHz·m |
| • at 1300 nm | 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 | 50 µm |
| • of the optical fiber sheath | 125 µm |
| • of the FOC core sheath | 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 | Quartz glass |
| • of the optical fiber sheath | Quartz glass |
| • of the FOC core sheath | PVC |
| • of the fiber-optic cable sheath | PVC |
| • of the strain relief | Aramid fibers |
| color | |
| • of the FOC core sheath | orange/black |
| • of cable sheath | green |
| bending radius | |
| • with single bend / minimum permissible | 45 mm |
| • with multiple bends / minimum permissible | 65 mm |
| tensile load | |

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| <ul style="list-style-type: none"> during installation / short-term | 1200 N |
| <ul style="list-style-type: none"> during operation / maximum | 500 N |
| 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 | -25 ... +80 °C |
| <ul style="list-style-type: none"> during storage | -25 ... +80 °C |
| <ul style="list-style-type: none"> during transport | -25 ... +80 °C |
| <ul style="list-style-type: none"> during installation | -5 ... +50 °C |
| 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 | conditional resistance |
| <ul style="list-style-type: none"> to grease | conditional resistance |
| 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 | No |
| <ul style="list-style-type: none"> silicon-free | Yes |
| product component / rodent protection | No |
| wire length | |
| <ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum | 5000 m |
| <ul style="list-style-type: none"> for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 750 m |
| <ul style="list-style-type: none"> for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 2000 m |
| <ul style="list-style-type: none"> for glass FOC / with PROFIBUS / maximum | 3000 m |
| standards, specifications, approvals | |
| certificate of suitability | |
| <ul style="list-style-type: none"> UL approval | Yes; UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 FT4 (CSA Standard C22.2 No. 232) |
| <ul style="list-style-type: none"> RoHS conformity | Yes |
| reference code | |
| <ul style="list-style-type: none"> according to IEC 81346-2 | WH |
| <ul style="list-style-type: none"> according to IEC 81346-2:2019 | WHA |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool | http://www.siemens.com/tia-selection-tool |
| <ul style="list-style-type: none"> to website: Industrial communication | http://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> to website: Industry Mall | https://mall.industry.siemens.com |
| <ul style="list-style-type: none"> to website: Information and Download Center | http://www.siemens.com/industry/infocenter |
| <ul style="list-style-type: none"> to website: Selection guide for cables and connectors | https://sie.ag/2QdlxcP |
| <ul style="list-style-type: none"> to website: Image database | http://automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> to website: CAX-Download-Manager | http://www.siemens.com/cax |
| <ul style="list-style-type: none"> to website: Industry Online Support | https://support.industry.siemens.com |

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