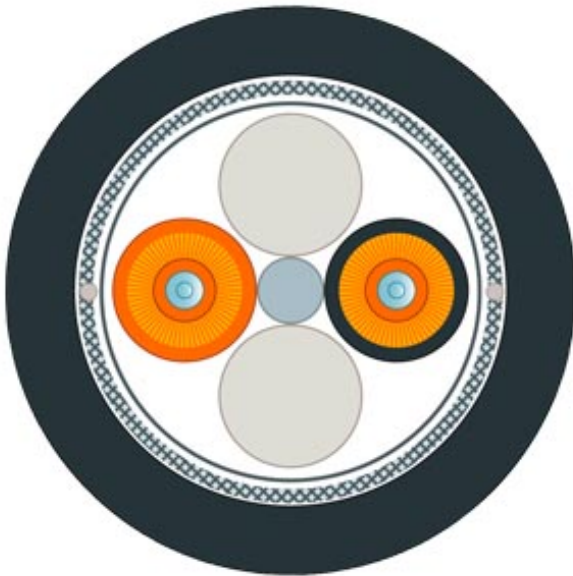


Product type designation

Product description

FO Ground Cable

Glass fiber-optic cable, preferred length, preassembled
FO Ground Cable 50/125, pre-assembled with 2x2 SC connectors,
insertion aid, Length 100 m



| | |
|-----------------------------------|--|
| Suitability for use | Waterproof cable (lengthwise and sideways) with non-metallic protection against rodents for use outdoors as well as for direct routing underground |
| Version of the assembled FO cable | Preassembled with four SC connectors |
| Cable designation | AT-WQ(ZN)Y(ZN)B2Y 2G 50/125 OM2++ |
| Wire length | 100 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 PE Aramid fibers |
| Color <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath | orange/black Black |
| Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 105 mm 155 mm |
| Tensile load <ul style="list-style-type: none"> • during installation / short-term • during operation / maximum | 2000 N 800 N |
| Short-term shear force per length | 500 N/cm |
| Continuous lateral force per length | 300 N/cm |
| Weight per length | 90 kg/km |
| Ambient conditions | |
| Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation | -40 ... +75 °C -40 ... +75 °C -40 ... +75 °C -5 ... +50 °C |
| Burning behavior | flammable |
| Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease • to water | resistant resistant resistant |
| Radiological resistance / to UV radiation | resistant |
| Protection class IP | IP20 |

Product features, product functions, product components / general

| | |
|--|--------|
| Product feature | |
| • halogen-free | No |
| • silicon-free | Yes |
| Product component / Rodent protection | Yes |
| Wire 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 | |
| • 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/industry/infocenter |
| • 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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