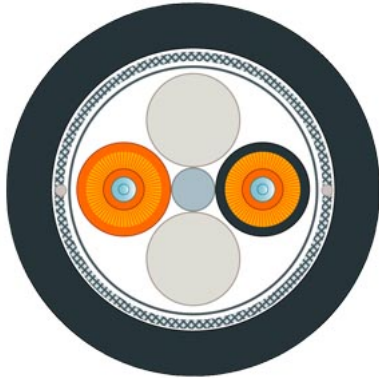


product type designation

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 300 m.

| | |
|--|--|
| product brand name | SIMATIC NET |
| Technical Product Detail Page | https://l.siemens.com/1P6XV1873-6GT30 |
| 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 | 300 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 |
| outer diameter / of the cable | 10.5 mm |
| symmetrical deviation / of the outer diameter of the line | 0.5 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 | PE |
| • of the strain relief | Aramid fibers |
| color | |
| • of the FOC core sheath | orange/black |
| • of cable sheath | Black |
| bending radius | |

| | |
|--|--|
| <ul style="list-style-type: none"> • with single bend / minimum permissible | 105 mm |
| <ul style="list-style-type: none"> • with multiple bends / minimum permissible | 155 mm |
| tensile load | |
| <ul style="list-style-type: none"> • during installation / short-term | 2000 N |
| <ul style="list-style-type: none"> • during operation / maximum | 800 N |
| short-term shear force per length | 500 N/cm |
| continuous shear force per length | 300 N/cm |
| weight per length | 90 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -40 ... +75 °C |
| <ul style="list-style-type: none"> • during storage | -40 ... +75 °C |
| <ul style="list-style-type: none"> • during transport | -40 ... +75 °C |
| <ul style="list-style-type: none"> • during installation | -5 ... +50 °C |
| fire behavior | flammable |
| chemical resistance | |
| <ul style="list-style-type: none"> • to mineral oil | resistant |
| <ul style="list-style-type: none"> • to grease | resistant |
| <ul style="list-style-type: none"> • to water | resistant |
| 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 | Yes |
| 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"> • RoHS conformity | Yes |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| <ul style="list-style-type: none"> • to web page: identification and localization systems | https://www.siemens.com/ident |
| <ul style="list-style-type: none"> • to web page: SiePortal | https://sieportal.siemens.com/ |
| <ul style="list-style-type: none"> • to website: Image database | https://www.automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAx-Download-Manager | https://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |
| security information / header | |
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General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval

other

Industrial Communication



[Confirmation](#)



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3/10/2026