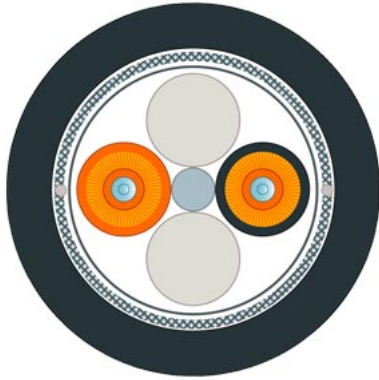


product type designation

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

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

2.7 dB/km
0.7 dB/km

bandwidth length product

- 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

- 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

- 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

- of the FOC core sheath
- of cable sheath


orange/black
Black

bending radius

- 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 | 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 |
| 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 |
| last modified: | 5/10/2022  |