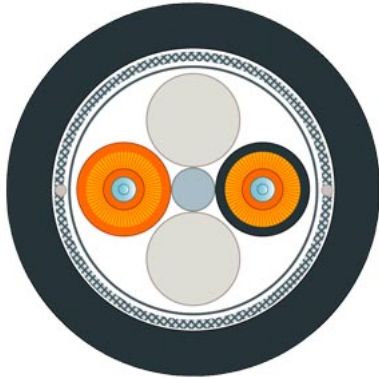


product type designation

product description



FO Ground Cable

Glass fiber-optic cable, preferred length, preassembled

FO Ground Cable 50/125, pre-assembled 2x2 BFOC 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

Assembled with four BFOC 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:	9/2/2023 