

product type designation

product description

FO Trailing Cable

Glass fiber-optic cable, preferred length, preassembled

FO Trailing Cable 50/125, pre-assembled with 2x LC duplex connectors, length 5 m.



suitability for use

Flexible cable for use in cable carriers for high mechanical loading, no UL approval

version of the assembled FO cable

Pre-assembled with two LC duplex connectors

cable designation

AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++

wire length

5 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

PUR

Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black

green

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

150 mm

200 mm

number of bending cycles

5000000

tensile load	
• during installation / short-term	2000 N
• during operation / maximum	800 N
short-term shear force per length	700 N/cm
continuous shear force per length	400 N/cm
weight per length	90 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-5 ... +50 °C
fire behavior	flammable
chemical resistance	
• to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min.
• to grease	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	No
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
reference code	
• according to IEC 81346-2	WH
• according to IEC 81346-2:2019	WHA
further information / internet links	
internet link	
• to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
• 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: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
• 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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