

### product description

Glass fiber-optic cable, sold by the meter, unassembled

FO Trailing Cable, (50/125), Trailing cable, splittable, without connector, sold by the meter, max. length 1000 m minimum order quantity: 20 m.



### suitability for use

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

### version of the assembled FO cable

sold by the meter

### cable designation

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

### 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

<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	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
<b>ambient conditions</b>	
ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>during installation</li> </ul>	-40 ... +80 °C -40 ... +80 °C -40 ... +80 °C -5 ... +50 °C
fire behavior	flammable
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance <ul style="list-style-type: none"> <li>to mineral oil</li> <li>to grease</li> <li>to water</li> </ul>	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min resistant conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature <ul style="list-style-type: none"> <li>halogen-free</li> <li>silicon-free</li> </ul>	No Yes
product component / rodent protection	No
wire length <ul style="list-style-type: none"> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> <li>for glass FOC / for 1000BaseLSX / for Industrial Ethernet / maximum</li> <li>for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum</li> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>	5000 m 750 m 2000 m 2000 m 300 m 3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability <ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
reference code <ul style="list-style-type: none"> <li>according to IEC 81346-2</li> <li>according to IEC 81346-2:2019</li> </ul>	WH WHA
<b>further information / internet links</b>	
internet link <ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to web page: SiePortal</li> <li>to website: Image database</li> <li>to website: CAX-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[Declaration of Conformity](#)



Marine / Shipping	other	Environment	Industrial Communication
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[Confirmation](#)

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