

**product type designation**

product description

**FO Trailing Cable**

Glass fiber-optic cable, preferred length, preassembled

FO Trailing Cable 50/125, pre-assembled with 2x2 BFOC connectors, insertion aid, length 100 m.



suitability for use

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

version of the assembled FO cable

Assembled with four BFOC connectors

cable designation

AT-W(ZN)Y(ZN)11Y 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  
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	
<ul style="list-style-type: none"> <li>during installation / short-term</li> <li>during operation / maximum</li> </ul>	<p>2000 N</p> <p>800 N</p>
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>	<p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p> <p>-5 ... +50 °C</p>
fire behavior	flammable
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> <li>to grease</li> </ul>	<p>acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min.</p> <p>resistant</p>
radiological resistance / to UV radiation	resistant
protection class IP	IP20
<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>	<p>No</p> <p>Yes</p>
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 / with PROFIBUS / maximum</li> </ul>	<p>5000 m</p> <p>750 m</p> <p>2000 m</p> <p>3000 m</p>
<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>	<p>WH</p> <p>WHA</p>
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> <li>to website: Selection guide for cables and connectors</li> <li>to website: Image database</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<p><a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a></p> <p><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a></p> <p><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></p> <p><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></p> <p><a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a></p> <p><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></p> <p><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></p> <p><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></p>

last modified:

5/10/2022 