

### Product type designation

Product description

### FO Trailing Cable GP

Glass fiber-optic cable, sold by the meter, unassembled  
SIMATIC NET FO TRAILING CABLE, GP (50/125), UL APPROVED,  
TRAILING CABLE, SPLITTABLE, W/O CONNECT., SOLD BY THE  
METER MAX. LENGTH: 1000 M MIN. ORDER LENGTH: 20 M



Suitability for use	Flexible cable for use in cable carriers for high mechanical loading, UL approval
Version of the assembled FO cable	For assembly with four BFOC or SC connectors
Cable designation	AT-W(ZN)Y(ZN)Y 2G 50/125

### Optical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>at 850 nm / maximum</li> <li>at 1300 nm / maximum</li> </ul>	<p>2.7 dB/km</p> <p>0.7 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> <li>at 850 nm</li> <li>at 1300 nm</li> </ul>	<p>600 GHz·m</p> <p>1200 GHz·m</p>

### 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	
<ul style="list-style-type: none"> <li>of the optical fibers</li> <li>of the optical fiber sheath</li> <li>of the FOC core sheath</li> </ul>	<p>50 µm</p> <p>125 µm</p> <p>2.9 mm</p>
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 <ul style="list-style-type: none"> <li>• of the fiber-optic cable core</li> <li>• of the optical fiber sheath</li> <li>• of the FOC core sheath</li> <li>• of the fiber-optic cable sheath</li> <li>• of the strain relief</li> </ul>	<ul style="list-style-type: none"> <li>Quartz glass</li> <li>Quartz glass</li> <li>PVC</li> <li>PVC</li> <li>Aramid fibers</li> </ul>
Color <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>	<ul style="list-style-type: none"> <li>Orange/black</li> <li>green</li> </ul>
Bending radius <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	<ul style="list-style-type: none"> <li>150 mm</li> <li>200 mm</li> </ul>
Number of bending cycles	3500000
Tensile load / during operation / maximum	800 N
Short-term shear force per length	700 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	90 kg/km

#### Permitted ambient conditions

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>	<ul style="list-style-type: none"> <li>-25 ... +80 °C</li> <li>-25 ... +80 °C</li> <li>-25 ... +80 °C</li> <li>-5 ... +50 °C</li> </ul>
Burning behavior	Flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
Chemical resistance <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to grease</li> <li>• to water</li> </ul>	<ul style="list-style-type: none"> <li>Conditional resistance</li> <li>Conditional resistance</li> <li>Conditional resistance</li> </ul>
Radiological resistance / to UV radiation	resistant

#### Product properties, functions, components / general

Product property <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>	<ul style="list-style-type: none"> <li>No</li> <li>Yes</li> </ul>
Product component / Rodent protection	No
Cable length <ul style="list-style-type: none"> <li>• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	5000 m

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|--|--------|
| • 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

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|----------------------------|--|
| Certificate of suitability | UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988) |
| • RoHS conformity          | Yes  |

### Further Information / Internet Links

#### Internet-Link

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|---|---|
| • to website: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                                     |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                       |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                         |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>                   |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                       |
| • to website: Industry Online Support             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                   |

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