

**product type designation**

product description

**FO Trailing Cable GP**

Glass fiber-optic cable, preferred length, preassembled

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



|                                   |   |
|-----------------------------------|---|
| product brand name                | SIMATIC NET   |
| Technical Product Detail Page     | <a href="https://l.siemens.com/1P6XV1873-3DT10">https://l.siemens.com/1P6XV1873-3DT10</a> |
| suitability for use               | Flexible cable for use in cable carriers for high mechanical loading, UL approval         |
| version of the assembled FO cable | Assembled with four BFOC connectors   |
| cable designation                 | AT-W(ZN)Y(ZN)Y 2G 50/125 OM2++  |
| wire length                       | 100 m   |

**optical data**

|   |                                    |
|---|------------------------------------|
| attenuation factor 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> | <p>Quartz glass</p> <p>Quartz glass</p> <p>PVC</p> <p>PVC</p> <p>Aramid fibers</p> |
| color   |  |
| <ul style="list-style-type: none"> <li>of the FOC core sheath</li> <li>of cable sheath</li> </ul>   | <p>orange/black</p> <p>green</p>   |
| bending radius  |  |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>                             | 150 mm   |
| <ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>                          | 200 mm   |
| number of bending cycles   | 3500000  |
| tensile load   |  |
| <ul style="list-style-type: none"> <li>• during installation / short-term</li> </ul>                                   | 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> </ul>   | -25 ... +80 °C   |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -25 ... +80 °C   |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>   | -25 ... +80 °C   |
| <ul style="list-style-type: none"> <li>• during installation</li> </ul>  | -5 ... +50 °C  |
| fire 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> </ul>   | conditional resistance   |
| <ul style="list-style-type: none"> <li>• to grease</li> </ul>  | conditional resistance   |
| 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> </ul>   | No   |
| <ul style="list-style-type: none"> <li>• silicon-free</li> </ul>   | 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> </ul>  | 5000 m   |
| <ul style="list-style-type: none"> <li>• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul> | 750 m  |
| <ul style="list-style-type: none"> <li>• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul> | 2000 m   |
| <ul style="list-style-type: none"> <li>• for glass FOC / with PROFIBUS / maximum</li> </ul>                            | 3000 m   |
| <b>standards, specifications, approvals</b>  |  |
| certificate of suitability   |  |
| <ul style="list-style-type: none"> <li>• UL approval</li> </ul>  | Yes; c(UL)us OFN FT4   |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>  | Yes  |
| <b>further information / internet links</b>  |  |
| internet link  |  |
| <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</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>  |
| <ul style="list-style-type: none"> <li>• to web page: selection aid TIA Selection Tool</li> </ul>                      | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>  |
| <ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>                               | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>  |
| <ul style="list-style-type: none"> <li>• to web page: SiePortal</li> </ul>   | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>  |
| <ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>   | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>  |
| <ul style="list-style-type: none"> <li>• to website: CAX-Download-Manager</li> </ul>                                   | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>  |
| <ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>                                | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>  |
| <b>security information / header</b>   |  |
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Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[China RoHS](#)



other

Industrial Communication

[Confirmation](#)



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