SIEMENS

## Data sheet 6XV1873-5CN10

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| **product type designation** | **FO Trailing Cable** |
| product description | Glass fiber-optic cable, preferred length, preassembled |
| | FO Trailing Cable 50/125, pre-assembled with 2x LC duplex connectors, length 10 m. |



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| product brand name | SIMATIC NET |
| Technical Product Detail Page | https://i.siemens.com/1P6XV1873-5CN10 |
| 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 2x LC DUPLEX connectors |
| cable designation | AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++ |
| wire length | 10 m |
| **optical data** | |
| attenuation factor per length | |
| ● at 850 nm / maximum | 2.7 dB/km |
| ● at 1300 nm / maximum | 0.7 dB/km |
| bandwidth length product | |
| ● at 850 nm | 600 GHz·m |
| ● at 1300 nm | 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 | 50 µm |
| ● of the optical fiber sheath | 125 µm |
| ● of the FOC core sheath | 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 | Quartz glass |
| ● of the optical fiber sheath | Quartz glass |
| ● of the FOC core sheath | PVC |
| ● of the fiber-optic cable sheath | PUR |
| ● of the strain relief | Aramid fibers |
| color | |
| ● of the FOC core sheath | orange/black |
| ● of cable sheath | green |
| bending radius | |


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| ● with single bend / minimum permissible | 150 mm |
| ● with multiple bends / minimum permissible | 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 |
| **further information / internet links** | |
| internet link | |
| ● to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| ● to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| ● to website: Industrial communication | https://www.siemens.com/simatic-net |
| ● to web page: SiePortal | https://sieportal.siemens.com/ |
| ● to website: Image database | https://www.automation.siemens.com/bilddb |
| ● to website: CAx-Download-Manager | https://www.siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **security information / header** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are |


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| | no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7) |

## Approvals / Certificates

### General Product Approval

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|  |  | Manufacturer Declaration |  |

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