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## Data sheet 6XV1873-5RN50

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| **product type designation** | **MM FO Robust Cable GP** |
| product description | Glass fiber-optic cable, preferred length, preassembled |

FO Robust Cable GP 50/125, pre-assembled with 2x LC Duplex connectors, length 50 m.



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| suitability for use | Waterproof cable (lengthwise and sideways) with non-metallic protection against rodents for use indoors and outdoors as well as for direct routing underground |
| version of the assembled FO cable | Pre-assembled with 2x LC DUPLEX connectors |
| cable designation | AT-V(ZN)H(ZN)BH 2G50/125 OM2+ |
| wire length | 50 m |
| **optical data** | |
| attenuation factor per length | |
| ● at 850 nm / maximum | 2.7 dB/km |
| ● at 1300 nm / maximum | 1 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 50/125/245 µm, OM2 |
| design of the FOC core | Solid core, diameter 900 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 | 2.2 mm |
| outer diameter / of the cable | 7.5 mm |
| material | |
| ● of the fiber-optic cable core | Quartz glass |
| ● of the optical fiber sheath | Quartz glass |
| ● of the FOC core sheath | PE flame retardant |
| ● of the fiber-optic cable sheath | PE flame retardant |
| ● of the strain relief | Aramid fibers and glass roving |
| color | |
| ● of the FOC core sheath | orange/black, with direction arrow |
| ● of cable sheath | Black |
| bending radius | |
| ● with single bend / minimum permissible | 25 mm |
| ● with multiple bends / minimum permissible | 40 mm |
| tensile load | |
| ● during installation / short-term | 2000 N |
| ● during operation / maximum | 1000 N |


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| short-term shear force per length | 600 N/cm |
| continuous shear force per length | 200 N/cm |
| weight per length | 67 kg/km |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -40 ... +70 °C |
| ● during storage | -40 ... +70 °C |
| ● during transport | -40 ... +70 °C |
| ● during installation | -20 ... +60 °C |
| fire behavior | flame-resistant acc. to IEC 60332-3-24 |
| chemical resistance | |
| ● to mineral oil | conditional resistance |
| ● to grease | conditional resistance |
| ● to water | resistant |
| radiological resistance / to UV radiation | resistant |
| **product features, product functions, product components / general** | |
| product feature | |
| ● halogen-free | Yes |
| ● silicon-free | Yes |
| product component / rodent protection | Yes |
| 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 10GBaseSR / for Industrial Ethernet / maximum | 60 m |
| ● for glass FOC / with PROFIBUS / maximum | 3000 m |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● RoHS conformity | Yes |
| reference code | |
| ● according to IEC 81346-2 | WH |
| ● according to IEC 81346-2:2019 | WHA |
| **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 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** | |


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| General Product Approval | | | | | Environment |
|---|---|---|---|---|---|
| CE EG-Konf. | UKCA | CCC | Manufacturer Declaration | Declaration of Conformity | Confirmation |

**last modified:** 8/9/2024


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