

**product type designation**

product description



**MM FO Robust Cable GP**

Glass fiber-optic cable, preferred length, preassembled

FO Robust Cable GP 50/125, pre-assembled with 2x LC Duplex connectors, length 150 m.

|   |  |
|---|--|
| product brand name                          | SIMATIC NET  |
| Technical Product Detail Page               | <a href="https://l.siemens.com/1P6XV1873-5RT15">https://l.siemens.com/1P6XV1873-5RT15</a>  |
| 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                                 | 150 m  |
| <b>optical data</b>                         |  |
| 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   |
| <b>mechanical data</b>                      |  |
| 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  |

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| tensile load   |   |
| • during installation / short-term                                       | 2000 N  |
| • during operation / maximum   | 1000 N  |
| short-term shear force per length  | 600 N/cm  |
| continuous shear force per length  | 200 N/cm  |
| weight per length  | 67 kg/km  |
| <b>ambient conditions</b>  |   |
| 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   |
| <b>product features, product functions, product components / general</b> |   |
| 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  |
| <b>standards, specifications, approvals</b>                              |   |
| certificate of suitability   |   |
| • RoHS conformity  | Yes   |
| <b>further information / internet links</b>                              |   |
| internet link  |   |
| • to website: Selection guide for cables and connectors                  | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>   |
| • to web page: selection aid TIA Selection Tool                          | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>   |
| • to website: Industrial communication                                   | <a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>   |
| • to web page: SiePortal   | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>   |
| • to website: Image database   | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>   |
| • to website: CAx-Download-Manager                                       | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>   |
| • to website: Industry Online Support                                    | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>   |
| <b>security information / header</b>                                     |   |
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