## **SIEMENS**

Data sheet 6XV1873-2G

product description



Glass fiber-optic cable, sold by the meter, unassembled

FO Ground Cable, (50/125), outdoor cable with rodent protection, splittable, without connector, sold by the meter, minimum order quantity 20 m, max. length 2000 m;

| suitability for use  | Waterproof cable (lengthwise and sideways) with non-metallic protection against rodents for use outdoors as well as for direct routing underground |
|--|--|
| version of the assembled FO cable                                    | sold by the meter  |
| cable designation  | AT-WQ(ZN)Y(ZN)B2Y 2G 50/125 OM2++  |
| 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  |
| <ul> <li>of the optical fiber sheath</li> </ul>                      | 125 µm   |
| <ul> <li>of the FOC core sheath</li> </ul>                           | 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   |  |
| <ul> <li>of the fiber-optic cable core</li> </ul>                    | Quartz glass   |
| <ul> <li>of the optical fiber sheath</li> </ul>                      | Quartz glass   |
| <ul> <li>of the FOC core sheath</li> </ul>                           | PVC  |
| <ul> <li>of the fiber-optic cable sheath</li> </ul>                  | PE   |
| of the strain relief   | Aramid fibers  |
| color  |  |
| <ul> <li>of the FOC core sheath</li> </ul>                           | orange/black   |
| of cable sheath  | Black  |
| bending radius   |  |
| <ul> <li>with single bend / minimum permissible</li> </ul>           | 105 mm   |
| <ul> <li>with multiple bends / minimum permissible</li> </ul>        | 155 mm   |
| tensile load   |  |
| <ul> <li>during installation / short-term</li> </ul>                 | 2000 N   |
| <ul><li>during operation / maximum</li></ul>                         | 800 N  |

| short-term shear force per length  | 500 N/cm  |
|--|---|
| continuous shear force per length  | 300 N/cm  |
| weight per length  | 90 kg/km  |
| ambient conditions   |   |
| ambient temperature  |   |
| during operation   | -40 +85 °C  |
| during storage   | -40 +85 °C  |
| <ul> <li>during transport</li> </ul>   | -40 +85 °C  |
| during installation  | -5 +50 °C   |
| fire behavior  | flammable   |
| class of burning behaviour / according to EN 13501-6                                       | Fca   |
| chemical resistance  |   |
| • to mineral oil   | resistant   |
| • to grease  | resistant   |
| • to water   | resistant   |
| radiological resistance / to UV radiation  | resistant   |
| product features, product functions, product components / gen                              | eral  |
| product feature  |   |
| <ul><li>halogen-free</li></ul>   | No  |
| • silicon-free   | Yes   |
| product component / rodent protection  | Yes   |
| wire length  |   |
| <ul> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet /<br/>maximum</li> </ul>  | 5000 m  |
| <ul> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet /<br/>maximum</li> </ul> | 750 m   |
| <ul> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet /<br/>maximum</li> </ul> | 2000 m  |
| <ul> <li>for glass FOC / for 10GBaseLX4 / for Industrial Ethernet /<br/>maximum</li> </ul> | 300 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     to website: Image database                                      | https://sieportal.siemens.com/  |
| to website: Image database   | https://www.automation.siemens.com/bilddb   |
| to website: CAx-Download-Manager     to website: Industry Online Support                   | https://www.siemens.com/cax   |
| to website: Industry Online Support security information / header                          | https://support.industry.siemens.com  |
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## Approvals / Certificates

## **General Product Approval**

Manufacturer Declaration



Declaration of Conformity







| Marine / Shipping | other        | Environment  | Industrial Communication |
|-------------------|--------------|--------------|--------------------------|
| ŮÅ<br>DNV<br>DNV  | Confirmation | Confirmation | PROFINET                 |
| last modified:    |              | 8/9/2        | 024 🗹                    |