

### Product type designation

Product description

### Fiber optic standard cable

Flexible glass fiber-optic cable, sold by the meter, unassembled SIMATIC NET, FIBER OPTIC CABLE (62.5/125), STANDARD CABLE, SPLITTABLE, W/O CONNECTOR, SOLD BY THE METER MAX. LENGTH: 2000 M MIN. LENGTH ORDERED: 20 M



|                                   |   |
|-----------------------------------|---|
| Suitability for use               | Cable for installation indoors and outdoors |
| Version of the assembled FO cable | For assembly with four BFOC connectors      |
| Cable designation                 | AT-V(ZN)YY 2X1 G 62.5/125                   |

### Optical data

|   |                        |
|---|------------------------|
| Damping ratio per length  |                        |
| <ul style="list-style-type: none"> <li>at 850 nm / maximum</li> <li>at 1300 nm / maximum</li> </ul> | 3.1 dB/km<br>0.8 dB/km |
| Bandwidth length product  |                        |
| <ul style="list-style-type: none"> <li>at 850 nm</li> <li>at 1300 nm</li> </ul>                     | 200 GHz·m<br>600 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  | Multimode graded-index fiber 62.5/125 μm, OM 1 |
| Design of the FOC core   | Compact core, diameter 900 μm                  |
| Design of the fiber-optic cable  | Segmentable outer conductor                    |
| 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> | 62.5 μm<br>125 μm<br>3.5 mm                    |
| Width / of cable sheath  | 9.8 mm   |
| Thickness / of cable sheath  | 6.3 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> | Quartz glass<br>Quartz glass<br>PVC<br>PVC<br>Aramid fibers and glass roving |
| Color   |  |
| <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>   | Gray<br>Black  |
| Bending radius  |  |
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>   | 80 mm<br>80 mm   |
| Tensile load / during operation / maximum   | 1500 N   |
| Continuous lateral force per length   | 200 N/cm   |
| Weight per length   | 70 kg/km   |

#### Permitted ambient conditions

|   |   |
|---|---|
| Ambient temperature   |   |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> <li>• during installation</li> </ul> | -40 ... +85 °C<br>-40 ... +85 °C<br>-40 ... +85 °C<br>-5 ... +50 °C |
| Burning 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> <li>• to grease</li> <li>• to water</li> </ul>   | not resistant<br>not resistant<br>Conditional resistance            |
| Radiological resistance / to UV radiation   | resistant   |

#### Product properties, functions, components / general

|  |                                    |
|--|------------------------------------|
| Product property   |                                    |
| <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>   | No<br>Yes                          |
| Product component / Rodent protection  | No                                 |
| Cable length   |                                    |
| <ul style="list-style-type: none"> <li>• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / with PROFIBUS / maximum</li> </ul> | 4000 m<br>350 m<br>550 m<br>3000 m |

#### Standards, specifications, approvals

Certificate of suitability

- RoHS conformity

Yes

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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