

### Product type designation

Product description

### Fiber optic standard cable

Flexible glass fiber-optic cable, preferred length, preassembled SIMATIC NET, FIBER OPTIC CABLE (62.5/125)STANDARD CABLE, SPLITTABLE PREASSEMBLED WITH 4 BFOC CONNECTORS, LENGTH: 300 M



|                                    |                                                |
|------------------------------------|------------------------------------------------|
| Suitability for use                | Cable for installation indoors and outdoors    |
| Version of the assembled FO cable  | Assembled with four BFOC connectors            |
| Cable designation                  | AT-V(ZN)YY 2X1 G 62.5/125                      |
| Wire length                        | 300 m                                          |
| <b>Optical data</b>                |                                                |
| Damping ratio per length           |                                                |
| • at 850 nm / maximum              | 3.1 dB/km                                      |
| • at 1300 nm / maximum             | 0.8 dB/km                                      |
| Bandwidth length product           |                                                |
| • at 850 nm                        | 200 GHz·m                                      |
| • at 1300 nm                       | 600 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  | 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                              |                                |
| • of the optical fibers                     | 62.5 µm                        |
| • of the optical fiber sheath               | 125 µm                         |
| • of the FOC core sheath                    | 3.5 mm                         |
| Width / of cable sheath                     | 9.8 mm                         |
| Thickness / of cable sheath                 | 6.3 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           | PVC                            |
| • of the strain relief                      | Aramid fibers and glass roving |
| Color                                       |                                |
| • of the FOC core sheath                    | gray                           |
| • of cable sheath                           | Black                          |
| Bending radius                              |                                |
| • with single bend / minimum permissible    | 80 mm                          |
| • with multiple bends / minimum permissible | 80 mm                          |
| Tensile load                                |                                |
| • during installation / short-term          | 1500 N                         |
| • during operation / maximum                | 1500 N                         |
| Continuous lateral force per length         | 150 N/cm                       |
| Weight per length                           | 70 kg/km                       |

#### Permitted ambient conditions

|                                           |                                                                   |
|-------------------------------------------|-------------------------------------------------------------------|
| Ambient temperature                       |                                                                   |
| • during operation                        | -40 ... +85 °C                                                    |
| • during storage                          | -40 ... +85 °C                                                    |
| • during transport                        | -40 ... +85 °C                                                    |
| • during installation                     | -5 ... +50 °C                                                     |
| Burning behavior                          | flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A) |
| Chemical resistance                       |                                                                   |
| • to mineral oil                          | not resistant                                                     |
| • to grease                               | not resistant                                                     |
| Radiological resistance / to UV radiation | resistant                                                         |
| Protection class IP                       | IP20                                                              |

#### Product properties, functions, 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  | 4000 m |
| • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 350 m  |
| • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 550 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: Selector SIMATIC NET SELECTION TOOL | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>                               |
| • to website: Industrial communication            | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                 |
| • to website: Industry Mall                       | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                   |
| • to website: Information and Download Center     | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a> |
| • to website: Image database                      | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>             |
| • to website: CAx Download Manager                | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                 |
| • to website: Industry Online Support             | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>             |

**last modified:** 10/15/2016