

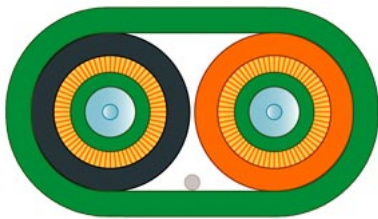
**product type designation**

product description

**FO Standard Cable GP**

Glass fiber-optic cable, preferred length, preassembled

FO Standard Cable 50/125, pre-assembled with 2x2 BFOC connectors, length 10 m.



|                                                                      |                                                          |
|----------------------------------------------------------------------|----------------------------------------------------------|
| suitability for use                                                  | Cable for installation indoors and outdoors, UL approval |
| version of the assembled FO cable                                    | Assembled with four BFOC connectors                      |
| cable designation                                                    | AT-W(ZN)YY 2x1 G 50/125 OM2++                            |
| wire length                                                          | 10 m                                                     |
| <b>optical data</b>                                                  |                                                          |
| 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                                               |
| <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 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                                                    |
| • of the optical fiber sheath                                        | 125 µm                                                   |
| • of the FOC core sheath                                             | 2.9 mm                                                   |
| symmetrical deviation / of the outer diameter of the FOC core sheath | 0.1 mm                                                   |
| width / of cable sheath                                              | 7.4 mm                                                   |
| thickness / of cable sheath                                          | 4.5 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                                            |
| color                                                                |                                                          |
| • of the FOC core sheath                                             | orange/black                                             |
| • of cable sheath                                                    | green                                                    |
| bending radius                                                       |                                                          |
| • with single bend / minimum permissible                             | 45 mm                                                    |
| • with multiple bends / minimum permissible                          | 65 mm                                                    |
| tensile load                                                         |                                                          |

|                                                                                                                      |                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>during installation / short-term</li> </ul>                                   | 1200 N                                                                                                         |
| <ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>                                         | 500 N                                                                                                          |
| short-term shear force per length                                                                                    | 600 N/cm                                                                                                       |
| continuous shear force per length                                                                                    | 400 N/cm                                                                                                       |
| weight per length                                                                                                    | 40 kg/km                                                                                                       |
| <b>ambient conditions</b>                                                                                            |                                                                                                                |
| ambient temperature                                                                                                  |                                                                                                                |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                                                   | -25 ... +80 °C                                                                                                 |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>                                                     | -25 ... +80 °C                                                                                                 |
| <ul style="list-style-type: none"> <li>during transport</li> </ul>                                                   | -25 ... +80 °C                                                                                                 |
| <ul style="list-style-type: none"> <li>during installation</li> </ul>                                                | -5 ... +50 °C                                                                                                  |
| fire 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> </ul>                                                     | conditional resistance                                                                                         |
| <ul style="list-style-type: none"> <li>to grease</li> </ul>                                                          | conditional resistance                                                                                         |
| radiological resistance / to UV radiation                                                                            | resistant                                                                                                      |
| protection class IP                                                                                                  | IP20                                                                                                           |
| <b>product features, product functions, product components / general</b>                                             |                                                                                                                |
| product feature                                                                                                      |                                                                                                                |
| <ul style="list-style-type: none"> <li>halogen-free</li> </ul>                                                       | No                                                                                                             |
| <ul style="list-style-type: none"> <li>silicon-free</li> </ul>                                                       | Yes                                                                                                            |
| product component / rodent protection                                                                                | No                                                                                                             |
| wire length                                                                                                          |                                                                                                                |
| <ul style="list-style-type: none"> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>  | 5000 m                                                                                                         |
| <ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul> | 750 m                                                                                                          |
| <ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul> | 2000 m                                                                                                         |
| <ul style="list-style-type: none"> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>                            | 3000 m                                                                                                         |
| <b>standards, specifications, approvals</b>                                                                          |                                                                                                                |
| certificate of suitability                                                                                           |                                                                                                                |
| <ul style="list-style-type: none"> <li>UL approval</li> </ul>                                                        | Yes; UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 FT4 (CSA Standard C22.2 No. 232) |
| <ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>                                                    | Yes                                                                                                            |
| reference code                                                                                                       |                                                                                                                |
| <ul style="list-style-type: none"> <li>according to IEC 81346-2</li> </ul>                                           | WH                                                                                                             |
| <ul style="list-style-type: none"> <li>according to IEC 81346-2:2019</li> </ul>                                      | WHA                                                                                                            |
| <b>further information / internet links</b>                                                                          |                                                                                                                |
| internet link                                                                                                        |                                                                                                                |
| <ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>                      | <a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>              |
| <ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>                               | <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>                            |
| <ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>                                          | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                              |
| <ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>                        | <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>            |
| <ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>              | <a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>                                                    |
| <ul style="list-style-type: none"> <li>to website: Image database</li> </ul>                                         | <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>                        |
| <ul style="list-style-type: none"> <li>to website: CAX-Download-Manager</li> </ul>                                   | <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                            |
| <ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>                                | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                        |

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