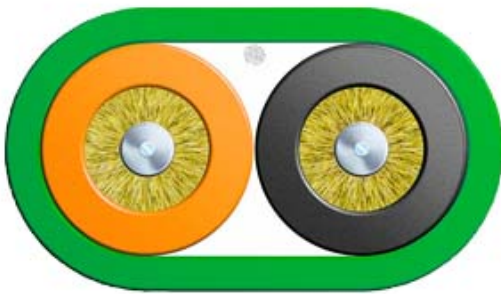


### Product type designation

Product description

### FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled  
SIMATIC NET FO STANDARD CABLE GP (50/125),  
PREASSEMBLED WITH 2X2 SC CONNECTORS, LENGTH 40 M



|                                   |  |
|-----------------------------------|--|
| Suitability for use               | Cable for installation indoors and outdoors, UL approval |
| Version of the assembled FO cable | Preassembled with four SC connectors                     |
| Cable designation                 | AT-W(ZN)YY 2x1 G 50/125                                  |
| Cable length                      | 40 m   |

### 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> | <p>2.7 dB/km</p> <p>0.7 dB/km</p>  |
| Bandwidth length product  |                                    |
| <ul style="list-style-type: none"> <li>at 850 nm</li> <li>at 1300 nm</li> </ul>                     | <p>600 GHz·m</p> <p>1200 GHz·m</p> |

### 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   |   |
| <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> | <p>50 µm</p> <p>125 µm</p> <p>2.9 mm</p>  |
| 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  |   |
| <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 |
| Color   |   |
| <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>   | Orange/black<br>green                                       |
| Bending radius  |   |
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>   | 45 mm<br>65 mm  |
| Tensile load / during operation / maximum   | 500 N   |
| Short-term shear force per length   | 600 N/cm  |
| Continuous lateral force per length   | 400 N/cm  |
| Weight per length   | 40 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> | -25 ... +80 °C<br>-25 ... +80 °C<br>-25 ... +80 °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> </ul>   | Conditional resistance<br>Conditional resistance                    |
| Radiological resistance / to UV radiation   | resistant   |
| Protection class IP   | IP20  |

#### 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> </ul> | 5000 m<br>750 m |

- for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum
- for glass FOC / with PROFIBUS / maximum

2000 m

3000 m

### Standards, specifications, approvals

Certificate of suitability

- RoHS conformity

UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)  
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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