

### Product type designation

Product description

### POF Standard Cable GP

Fiber-optic cable with polyoptical fiber, sold by the meter, unassembled

SIMATIC NET, POF STANDARD CABLE GP 980/1000, PROFINET, STANDARD CABLE, SOLD BY THE METER MIN. LENGTH: 20 M MAX. LENGTH: 500 M



|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| Suitability for use               | Cable for permanent installation indoors, UL approval |
| Version of the assembled FO cable | For assembly with SC RJ or SC RJ Plug PRO connectors  |
| Cable designation                 | I-V4Y(ZN)Y 2P 980/1000                                |

### Optical data

|                          |           |
|--------------------------|-----------|
| Damping ratio per length |           |
| • at 650 nm / maximum    | 160 dB/km |
| Bandwidth length product |           |
| • at 650 nm              | 1 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  | POF FOC 980/1000 µm |
| Outer diameter                     |                     |
| • of the optical fibers            | 980 µm              |
| • of the optical fiber sheath      | 1000 µm             |
| • of the FOC core sheath           | 2.2 mm              |

|                                                                                                                                                                                                                                                |                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Symmetrical deviation / of the outer diameter of the FOC core sheath                                                                                                                                                                           | 0.1 mm                                                                                     |
| Outer diameter / of the cable                                                                                                                                                                                                                  | 7.8 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> | Polymethylmethacrylate (PMMA)<br>Fluoridated special polymer<br>PA<br>PVC<br>Kevlar 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>                                                                                 | 100 mm<br>150 mm                                                                           |
| Tensile load <ul style="list-style-type: none"> <li>• during installation / short-term</li> <li>• during operation / maximum</li> </ul>                                                                                                        | 100 N<br>100 N                                                                             |
| Short-term shear force per length                                                                                                                                                                                                              | 100 N/cm                                                                                   |
| Weight per length                                                                                                                                                                                                                              | 65 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> | -30 ... +70 °C<br>-30 ... +70 °C<br>-30 ... +70 °C<br>50 °C |
| Burning behavior                                                                                                                                                              | flame-resistant acc. to IEC 60332-1-2                       |
| 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                                                                                                                                     | not resistant                                               |

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

|                                                                                                                 |           |
|-----------------------------------------------------------------------------------------------------------------|-----------|
| Product feature <ul style="list-style-type: none"> <li>• halogen-free</li> <li>• silicon-free</li> </ul>        | No<br>Yes |
| Product component / Rodent protection                                                                           | No        |
| Wire length <ul style="list-style-type: none"> <li>• for POF FOC / for Industrial Ethernet / maximum</li> </ul> | 50 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/industry/infocenter>

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

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

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

**last modified:**

08/10/2017