

### Product type designation

Product description

### PROFIBUS PCF Fiber Optic standard cable

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

PROFIBUS PCF Fiber Optic, with 4 PCF Simplex connectors, Length 300 m



|                                   |  |
|-----------------------------------|--|
| Suitability for use               | Cable for indoor applications          |
| Version of the assembled FO cable | Assembled with four Simplex connectors |
| Cable designation                 | I-V(ZN)Y 2K 200/230                    |
| Wire length                       | 300 m                                  |

### Optical data

|   |          |
|---|----------|
| Damping ratio per length  |          |
| <ul style="list-style-type: none"> <li>at 650 nm / maximum</li> </ul> | 10 dB/km |
| <ul style="list-style-type: none"> <li>at 660 nm / maximum</li> </ul> | 10 dB/km |
| Bandwidth length product  |          |
| <ul style="list-style-type: none"> <li>at 650 nm</li> </ul>           | 17 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                                       | Step index fiber 200/230 μm |
| Outer diameter  |                             |
| <ul style="list-style-type: none"> <li>of the optical fibers</li> </ul> | 200 μm                      |

|   |                             |
|---|-----------------------------|
| <ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>               | 230 µm                      |
| <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>                    | 2.2 mm                      |
| Symmetrical deviation / of the outer diameter of the FOC core sheath                          | 0.1 mm                      |
| Outer diameter / of the cable   | 4.7 mm                      |
| Material  |                             |
| <ul style="list-style-type: none"> <li>• of the fiber-optic cable core</li> </ul>             | Quartz glass                |
| <ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>               | Fluoridated special polymer |
| <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>                    | PVC                         |
| <ul style="list-style-type: none"> <li>• of the fiber-optic cable sheath</li> </ul>           | PVC                         |
| <ul style="list-style-type: none"> <li>• of the strain relief</li> </ul>                      | Kevlar fibers               |
| Color   |                             |
| <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>                    | orange/black                |
| <ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>                           | Violet                      |
| Bending radius  |                             |
| <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>    | 47 mm                       |
| <ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul> | 70 mm                       |
| Tensile load  |                             |
| <ul style="list-style-type: none"> <li>• during installation / short-term</li> </ul>          | 800 N                       |
| <ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>                | 200 N                       |
| Short-term shear force per length   | 100 N/cm                    |
| Weight per length   | 22 kg/km                    |

#### Ambient conditions

|   |                                       |
|---|---------------------------------------|
| Ambient temperature   |                                       |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>    | -30 ... +70 °C                        |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>      | -30 ... +70 °C                        |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>    | -30 ... +70 °C                        |
| <ul style="list-style-type: none"> <li>• during installation</li> </ul> | -5 ... +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> </ul>      | conditional resistance                |
| <ul style="list-style-type: none"> <li>• to grease</li> </ul>           | conditional resistance                |
| Radiological resistance / to UV radiation                               | not resistant                         |
| Protection class IP   | IP20                                  |

#### Product features, product functions, product components / general

|   |       |
|---|-------|
| 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 PCF FOC / with PROFIBUS / maximum</li> </ul> | 400 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>

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