

### Product type designation

Product description

### INDOOR fiber optic indoor cable

Glass fiber-optic cable, preferred length, preassembled SIMATIC NET, INDOOR FIBER OPTIC (62.5/125), FREE OF HALOGEN, RESIS. TO, TREADING, FLAME-RETARDANT GLASS FO CABLE FOR INDOOR INSTALLAT. PREASSEMBLED W. 4 BFOC CONNEC. L = 1 M



Suitability for use	Non-crush, halogen-free and flame-retardant cable for indoor installation
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	I-V(ZN)HH 2x1 G 62.5/125
Cable length	1 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>3.1 dB/km</p> <p>0.8 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> <li>at 850 nm</li> <li>at 1300 nm</li> </ul>	<p>200 GHz·m</p> <p>600 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	Multimode graded-index fiber 62.5/125 µm, OM 1
Design of the FOC core	Solid core, diameter 900 µm
Design of the fiber-optic cable	Segmentable inner conductor
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>62.5 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	6.8 mm
Thickness / of cable sheath	3.9 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 Quartz glass FRNC FRNC Aramid fibers
Color <ul style="list-style-type: none"> <li>• of the FOC core sheath</li> <li>• of cable sheath</li> </ul>	Gray orange
Bending radius <ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	30 mm 50 mm
Tensile load / during operation / maximum	200 N
Short-term shear force per length	300 N/cm
Continuous lateral force per length	100 N/cm
Weight per length	30 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>	-20 ... +60 °C -25 ... +70 °C -25 ... +70 °C -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>	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h and +25 °C, 168 h not resistant
Radiological resistance / to UV radiation	Not 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>	Yes 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> </ul>	4000 m

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|--|--------|
| • 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

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|-------------------|-----|
| • RoHS conformity | Yes |
|-------------------|-----|

### Further Information / Internet Links

#### Internet-Link

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|---|---|
| • 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/automation/net/catalog">http://www.siemens.com/automation/net/catalog</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:** 09.03.2015