

<b>Product type designation</b>	<b>INDOOR fiber optic indoor cable</b>
Product description	Glass fiber-optic cable, preferred length, preassembled Indoor Fiber Optic (62.5/125), halogen-free, non-crush and flame-retardant fiber-optic internal cable assembled with 4 BFOC connectors Length 3 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 OM1
Wire length	3 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>	3.1 dB/km 0.8 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> <li>• at 850 nm</li> <li>• at 1300 nm</li> </ul>	200 GHz·m 600 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	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>	62.5 µm 125 µm 2.9 mm
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>	<p>gray</p> <p>orange</p>
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> <li>• with multiple bends / minimum permissible</li> </ul>	<p>30 mm</p> <p>50 mm</p>
Tensile load	
<ul style="list-style-type: none"> <li>• during installation / short-term</li> <li>• during operation / maximum</li> </ul>	<p>800 N</p> <p>200 N</p>
Short-term shear force per length	300 N/cm
Continuous lateral force per length	100 N/cm
Weight per length	30 kg/km

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>	<p>-20 ... +60 °C</p> <p>-25 ... +70 °C</p> <p>-25 ... +70 °C</p> <p>-5 ... +50 °C</p>
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>	<p>acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h and +25 °C, 168 h</p> <p>not resistant</p>
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> <li>• silicon-free</li> </ul>	<p>Yes</p> <p>Yes</p>
Product component / Rodent protection	No
Wire 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> <li>• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> <li>• for glass FOC / with PROFIBUS / maximum</li> </ul>	<p>4000 m</p> <p>350 m</p> <p>550 m</p> <p>3000 m</p>

Standards, specifications, approvals	
Certificate of suitability	
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL <http://www.siemens.com/snst>
- to website: Industrial communication <http://www.siemens.com/simatic-net>
- to website: Industry Mall <https://mall.industry.siemens.com>
- to website: Information and Download Center <http://www.siemens.com/industry/infocenter>
- to website: Image database <http://automation.siemens.com/bilddb>
- to website: CAx Download Manager <http://www.siemens.com/cax>
- to website: Industry Online Support <https://support.industry.siemens.com>

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