

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 100 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	100 m
<b>optical data</b>	
attenuation factor per length	
• at 850 nm / maximum	3.1 dB/km
• at 1300 nm / maximum	0.8 dB/km
bandwidth length product	
• at 850 nm	200 GHz·m
• at 1300 nm	600 GHz·m
<b>mechanical data</b>	
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	
• of the optical fibers	62.5 µm
• of the optical fiber sheath	125 µm
• of the FOC core sheath	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	
• of the fiber-optic cable core	Quartz glass
• of the optical fiber sheath	Quartz glass
• of the FOC core sheath	FRNC
• of the fiber-optic cable sheath	FRNC
• of the strain relief	Aramid fibers
color	
• of the FOC core sheath	gray
• of cable sheath	orange
bending radius	
• with single bend / minimum permissible	30 mm
• with multiple bends / minimum permissible	50 mm
tensile load	
• during installation / short-term	800 N

<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	200 N
short-term shear force per length	300 N/cm
continuous shear force per length	100 N/cm
weight per length	30 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-20 ... +60 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-25 ... +70 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-5 ... +50 °C
fire 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> </ul>	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h and +25 °C, 168 h
<ul style="list-style-type: none"> <li>to grease</li> </ul>	not resistant
radiological resistance / to UV radiation	not resistant
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	Yes
<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 glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	4000 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul>	350 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	550 m
<ul style="list-style-type: none"> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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