

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 WITH 4 BFOC CONNECTORS; L = 0.5 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	0.5 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 850 nm / maximum • at 1300 nm / maximum 	<p>3.1 dB/km</p> <p>0.8 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> • at 850 nm • at 1300 nm 	<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"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	<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"> • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the fiber-optic cable sheath • of the strain relief 	Quartz glass Quartz glass FRNC FRNC Aramid fibers
Color <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath 	Gray orange
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	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"> • during operation • during storage • during transport • during installation 	-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"> • to mineral oil • to grease 	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"> • halogen-free • silicon-free 	Yes Yes
Product component / Rodent protection	No
Cable length <ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum 	4000 m

- | | |
|--|--------|
| • 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

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

Further Information / Internet Links

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/automation/net/catalog |
| • 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 |

last modified: 16.03.2015