

product type designation

product description

INDOOR fiber optic indoor cable

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 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 OM1
wire length	5 m

optical data

damping ratio per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	3.1 dB/km 0.8 dB/km
bandwidth length product	
<ul style="list-style-type: none"> at 850 nm at 1300 nm 	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"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	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"> • 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	
<ul style="list-style-type: none"> • during installation / short-term • during operation / maximum 	800 N 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

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 features, product functions, product components / general

product feature	
• halogen-free	Yes
• silicon-free	Yes
product component / rodent protection	No
wire length	
• 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/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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