

product type designation

product description

Indoor fiber optic indoor cable

Glass fiber-optic cable, sold by the meter, unassembled

Indoor Fiber Optic (62.5/125), halogen-free, non-crush, flame-retardant internal fiber-optic cable, Sold by the meter Delivery unit max. 2000 m minimum order quantity 20 m.



suitability for use
cable designation

Non-crush, halogen-free and flame-retardant cable for indoor installation
I-V(ZN)HH 2x1 G 62,5/125 OM1

optical data

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

3 dB/km
0.8 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

300 GHz·m
800 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

- 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

- 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

- of the FOC core sheath
- of cable sheath

gray
orange

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

30 mm
50 mm

tensile load

- during installation / short-term
- during operation / maximum

800 N
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
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
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	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 conditional resistance
radiological resistance / to UV radiation	not resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	Yes Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum for glass FOC / with PROFIBUS / maximum 	4000 m 500 m 1000 m 300 m 3000 m
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> RoHS conformity 	Yes
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	WH WHA
further information / internet-Links	
Internet-Link	
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
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