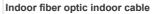
SIEMENS

Data sheet 6XV1820-7BN50

product type designation

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 pre-assembled with 4 BFOC connectors, length 50 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	50 m
optical data	
attenuation factor per length	
• at 850 nm / maximum	3 dB/km
• at 1300 nm / maximum	0.8 dB/km
bandwidth length product	
• at 850 nm	300 GHz·m
• at 1300 nm	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 	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	
 during operation / maximum 	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		
during operation	-20 +60 °C	
during storage	-25 +70 °C	
during transport	-25 +70 °C	
during installation	-5 +50 °C	
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)	
chemical resistance		
• to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 $^{\circ}\text{C},$ 4 h and +25 $^{\circ}\text{C},$ 168 h	
• to grease	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 	500 m	
 for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum 	1000 m	
for glass FOC / with PROFIBUS / maximum	3000 m	
standards, specifications, approvals		
certificate of suitability		
RoHS conformity	Yes	
reference code		
 according to IEC 81346-2 	WH	
 according to IEC 81346-2:2019 	WHA	
further information / internet links		
internet link		
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool	
 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: Selection guide for cables and connectors	https://sie.ag/2QdlxcP	
• 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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