SIEMENS

Data sheet 6XV1820-6BH50

Product type designation
Product description

Flexible fiber optic trailing cable
Flexible glass fiber-optic cable, preferred length, preassembled SIMATIC NET, FLEXIBLE FIBER OPTIC CABLE (62.5/125), TRAILING CABLE, SPLITTABLE, PREASSEMBLED WITH 4 BFOC CONNECTORS, LENGTH: 5 M

Suitability for use	Flexible cable for installation in cable carriers indoors and outdoors
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	AT-W11Y(ZN)11Y 2 G 62.5/125
Cable length	5 m

Optical data	
Damping ratio 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

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	Hollow core, filled, diameter 1400 µm
Design of the fiber-optic cable	Segmentable outer conductor
Outer diameter	
• of the optical fibers	62.5 µm
• of the optical fiber sheath	125 µm
• of the FOC core sheath	3.5 mm
Outer diameter / of the cable	12.9 mm

Material	
• of the fiber-optic cable core	Quartz glass
• of the optical fiber sheath	Quartz glass
• of the FOC core sheath	PUR
• of the fiber-optic cable sheath	PUR
• of the strain relief	Aramid fibers, also GRP central element
Color	
• of the FOC core sheath	Black
• of cable sheath	Black
Bending radius	
• with single bend / minimum permissible	150 mm
• with multiple bends / minimum permissible	150 mm
Number of bending cycles	100000
Tensile load / during operation / maximum	1000 N
Weight per length	130 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation	-30 ... +60 °C
• during storage	-30 ... +70 °C
• during transport	-30 ... +70 °C
• during installation	-30 ... +60 °C
Burning behavior	Flammable
Chemical resistance	
• to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min
• to grease	resistant
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Product properties, functions, components / general

Product property	
• halogen-free	Yes
• silicon-free	Yes
Product component / Rodent protection	No
Cable 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/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

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