SIEMENS

Data sheet **6XV1820-6BN50**

product type designation	**Flexible fiber optic trailing cable**
product description	Flexible glass fiber-optic cable, preferred length, preassembled
	Flex. Fiber Optic Cable (62.5/125), Trailing cable, splittable, Pre-assembled with 4 BFOC connectors, length 50 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 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	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 installation / short-term	2000 N
● during operation / maximum	1000 N
weight per length	130 kg/km

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ambient conditions	
ambient temperature	
● during operation	-30 ... +60 °C
● during storage	-30 ... +70 °C
● during transport	-30 ... +70 °C
● during installation	-30 ... +60 °C
fire 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 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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