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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.



Technical Product Detail Page	https://i.siemens.com/1P6XV1820-6BN50
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	

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● during installation / short-term	2000 N
● during operation / maximum	1000 N
weight per length	130 kg/km
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
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to website: Industrial communication	https://www.siemens.com/simatic-net
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information / header	
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General Product Approval	

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Declaration of Conformity

Manufacturer Declaration

China RoHS

General Product Approval	Maritime application

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