

Data sheet

6XV1820-6BT10

Product type designation

Product description

Flexible fiber optic trailing cable

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 100 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	100 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 • of the optical fiber sheath • of the FOC core sheath	62.5 µm 125 µm 3.5 mm
Outer diameter / of the cable	12.9 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 PUR PUR Aramid fibers, also GRP central element
Color • of the FOC core sheath • of cable sheath	black Black
Bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible	150 mm 150 mm
Number of bending cycles	100000
Tensile load • during installation / short-term • during operation / maximum	2000 N 1000 N
Weight per length	130 kg/km

Ambient conditions

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

Product features, product functions, product components / general

Product feature • halogen-free • silicon-free	Yes 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	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
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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/industry/infocenter
• 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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