

Data sheet

6XV1820-5BT20

Product type designation	Fiber optic standard cable
Product description	Flexible glass fiber-optic cable, preferred length, preassembled SIMATIC NET, FIBER OPTIC CABLE (62.5/125)STANDARD CABLE, SPLITTABLE, PREASSEMBLED WITH 4 BFOC CONNECTORS, LENGTH: 200 M
Suitability for use	Cable for installation indoors and outdoors
Version of the assembled FO cable	Assembled with four BFOC connectors
Cable designation	AT-V(ZN)YY 2X1 G 62.5/125
Wire length	200 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	Compact core, diameter 900 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
Width / of cable sheath	9.8 mm
Thickness / of cable sheath	6.3 mm
Material	
• of the fiber-optic cable core	Quartz glass
• of the optical fiber sheath	Quartz glass
• of the FOC core sheath	PVC
• of the fiber-optic cable sheath	PVC
• of the strain relief	Aramid fibers and glass roving
Color	
• of the FOC core sheath	gray
• of cable sheath	Black
Bending radius	

• with single bend / minimum permissible • with multiple bends / minimum permissible	80 mm 80 mm
Tensile load	
• during installation / short-term • during operation / maximum	1500 N 1500 N
Continuous lateral force per length	150 N/cm
Weight per length	70 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation • during storage • during transport • during installation	-40 ... +85 °C -40 ... +85 °C -40 ... +85 °C -5 ... +50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
Chemical resistance	
• to mineral oil • to grease	not resistant not resistant
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Product properties, functions, components / general

Product feature	
• halogen-free • silicon-free	No Yes
Product component / Rodent protection	No
Wire length	
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum • for glass FOC / with PROFIBUS / maximum	4000 m 350 m 550 m 3000 m

Standards, specifications, approvals

Certificate of suitability	
• RoHS conformity	Yes

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication	http://www.siemens.com/snst http://www.siemens.com/simatic-net

- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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