SIEMENS

Data sheet 6XV1820-5BH10

Product type designation
Product description

Fiber optic standard cable
Flexible glass fiber-optic cable, preferred length, preassembled Fiber-optic cable (62.5/125), standard cable, splittable, pre-assembled with 4 BFOC connectors, Length 1 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 OM1
Wire length	1 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

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

Ambient conditions

Ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• during installation	-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	not resistant
• to grease	not resistant
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Product features, product functions, product components / general

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

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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

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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