

## Data sheet

6XV1820-5BH50

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 5 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1820-5BH50>

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

5 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 FO 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 80 mm
- with multiple bends / minimum permissible 80 mm

tensile load

• during installation / short-term	1500 N
• during operation / maximum	1500 N
continuous shear force per length	150 N/cm
weight per length	70 kg/km
<b>ambient conditions</b>	
ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• during installation	-5 ... +50 °C
fire 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
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	No
• 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
<b>standards, specifications, approvals</b>	
certificate of suitability	
• RoHS conformity	Yes
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
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<b>security information / header</b>	
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<b>Approvals / Certificates</b>	
<b>General Product Approval</b>	



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General Product Approval

Maritime application

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[Confirmation](#)

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