

**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 130 m.



Technical Product Detail Page

<https://l.siemens.com/1P6XV1820-5BT13>

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

130 m

**optical data**

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

3 dB/km  
0.8 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

300 GHz·m  
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

Compact core, diameter 900 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

width / of cable sheath

9.8 mm

thickness / of cable sheath

6.3 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  
PVC  
PVC  
Aramid fibers and glass roving

color

- of the FOC core sheath
- of cable sheath

gray  
Black

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

80 mm  
80 mm

tensile load

<ul style="list-style-type: none"> <li>during installation / short-term</li> </ul>	1500 N
<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	1500 N
continuous shear force per length	150 N/cm
weight per length	70 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +85 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> </ul>	not resistant
<ul style="list-style-type: none"> <li>to grease</li> </ul>	not resistant
radiological resistance / to UV radiation	resistant
protection class IP	IP20
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	No
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	4000 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul>	500 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	1000 m
<ul style="list-style-type: none"> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
<b>further information / internet links</b>	
internet link	
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to web page: SiePortal</li> </ul>	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<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

other



[Confirmation](#)

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