

**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 70 m.



product brand name	SIMATIC NET
Technical Product Detail Page	<a href="https://l.siemens.com/1P6XV1820-5BN70">https://l.siemens.com/1P6XV1820-5BN70</a>
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	70 m

**optical data**

attenuation factor per length	
<ul style="list-style-type: none"> <li>at 850 nm / maximum</li> <li>at 1300 nm / maximum</li> </ul>	<p>3 dB/km</p> <p>0.8 dB/km</p>
bandwidth length product	
<ul style="list-style-type: none"> <li>at 850 nm</li> <li>at 1300 nm</li> </ul>	<p>300 GHz·m</p> <p>800 GHz·m</p>

**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	
<ul style="list-style-type: none"> <li>of the optical fibers</li> <li>of the optical fiber sheath</li> <li>of the FOC core sheath</li> </ul>	<p>62.5 µm</p> <p>125 µm</p> <p>3.5 mm</p>
width / of cable sheath	9.8 mm
thickness / of cable sheath	6.3 mm
material	
<ul style="list-style-type: none"> <li>of the fiber-optic cable core</li> <li>of the optical fiber sheath</li> <li>of the FOC core sheath</li> <li>of the fiber-optic cable sheath</li> <li>of the strain relief</li> </ul>	<p>Quartz glass</p> <p>Quartz glass</p> <p>PVC</p> <p>PVC</p> <p>Aramid fibers and glass roving</p>
color	
<ul style="list-style-type: none"> <li>of the FOC core sheath</li> <li>of cable sheath</li> </ul>	<p>gray</p> <p>Black</p>
bending radius	
<ul style="list-style-type: none"> <li>with single bend / minimum permissible</li> <li>with multiple bends / minimum permissible</li> </ul>	<p>80 mm</p> <p>80 mm</p>

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>
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