

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 100 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1820-5BT10
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	100 m

optical data

attenuation factor per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	<p>3 dB/km</p> <p>0.8 dB/km</p>
bandwidth length product	
<ul style="list-style-type: none"> at 850 nm at 1300 nm 	<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"> of the optical fibers of the optical fiber sheath of the FOC core sheath 	<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"> 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 	<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"> of the FOC core sheath of cable sheath 	<p>gray</p> <p>Black</p>
bending radius	
<ul style="list-style-type: none"> with single bend / minimum permissible with multiple bends / minimum permissible 	<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
ambient conditions	
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
product features, product functions, product components / general	
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
standards, specifications, approvals	
certificate of suitability	
• RoHS conformity	Yes
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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