

Product type designation

Product description

Fiber optic standard cable

Flexible glass fiber-optic cable, sold by the meter, unassembled SIMATIC NET, FIBER OPTIC CABLE (62.5/125), STANDARD CABLE, SPLITTABLE, W/O CONNECTOR, SOLD BY THE METER MAX. LENGTH: 2000 M MIN. LENGTH ORDERED: 20 M



Suitability for use	Cable for installation indoors and outdoors
Version of the assembled FO cable	For assembly with four BFOC connectors
Cable designation	AT-V(ZN)YY 2X1 G 62.5/125

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	<p>3.1 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>200 GHz·m</p> <p>600 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 	62.5 µm
<ul style="list-style-type: none"> • of the optical fiber sheath 	125 µm
<ul style="list-style-type: none"> • of the FOC core sheath 	3.5 mm
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 	Quartz glass
<ul style="list-style-type: none"> • of the optical fiber sheath 	Quartz glass
<ul style="list-style-type: none"> • of the FOC core sheath 	PVC
<ul style="list-style-type: none"> • of the fiber-optic cable sheath 	PVC
<ul style="list-style-type: none"> • of the strain relief 	Aramid fibers and glass roving
Color	
<ul style="list-style-type: none"> • of the FOC core sheath 	gray
<ul style="list-style-type: none"> • of cable sheath 	Black
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible 	80 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	80 mm
Tensile load	
<ul style="list-style-type: none"> • during installation / short-term 	1500 N
<ul style="list-style-type: none"> • during operation / maximum 	1500 N
Continuous lateral force per length	200 N/cm
Weight per length	70 kg/km

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +85 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +85 °C
<ul style="list-style-type: none"> • during installation 	-5 ... +50 °C
Burning behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	not resistant
<ul style="list-style-type: none"> • to grease 	not resistant
<ul style="list-style-type: none"> • to water 	conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> • halogen-free 	No
<ul style="list-style-type: none"> • 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 | 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

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|---|---|
| • 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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