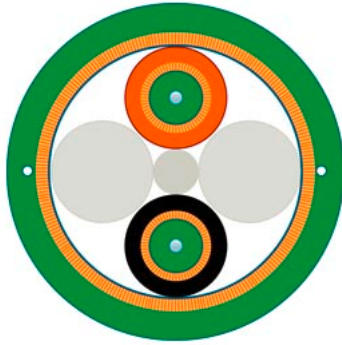


product description

Glass fiber-optic cable, sold by the meter, unassembled

FO Flexible Cable (50/125/OM4), halogen-free fiber-optic cable, splittable, for permanent routing, max. length 1000 m minimum order quantity 20 m sold by the meter



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suitability for use

halogen-free cable (acc. to IEC 61034-1) for flexible applications in cable carriers both indoors and outdoors, UL approval

version of the assembled FO cable

can be assembled with BFOC, SC or LC plugs also suitable for splicing technology

cable designation

AT-V(ZN)H(ZN)11Y 2G50/125 OM4BI TB900L 2,2

optical data

attenuation factor per length

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

2.5 dB/km
0.7 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

3500 GHz·m
500 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

Multi-mode gradient fiber 50/125 µm, OM 4

design of the FOC core

fixed core (TB900L)

design of the fiber-optic cable

segmentable

outer diameter

- of the optical fibers
- of the optical fiber sheath
- of the FOC core sheath

50 µm
125 µm
2.2 mm

symmetrical deviation / of the outer diameter of the FOC core sheath

0.1 mm

outer diameter / of the cable

8.8 mm

symmetrical deviation / of the outer diameter of the line

0.5 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
FRNC
TPE-U
Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black
green

bending radius

- with single bend / minimum permissible
- with continuous bending

88 mm
88 mm

number of bending cycles

5000000

tensile load

<ul style="list-style-type: none"> during installation / short-term 	2000 N
<ul style="list-style-type: none"> during operation / maximum 	600 N
short-term shear force per length	2000 N/cm
continuous shear force per length	1000 N/cm
weight per length	70 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation 	-30 ... +85 °C
<ul style="list-style-type: none"> during storage 	-30 ... +85 °C
<ul style="list-style-type: none"> during transport 	-30 ... +85 °C
<ul style="list-style-type: none"> during installation 	-5 ... +50 °C
ambient condition / for operation	impact resistance according to IEC 60794-1-2, method E4, energy 5 Nm
fire behavior	flame-resistant acc. to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
<ul style="list-style-type: none"> to mineral oil 	according to IEC 60811-404 with test oil IRM 902 (according to ISO 1817); +100 °C; 168 h
<ul style="list-style-type: none"> to grease 	resistant
<ul style="list-style-type: none"> to water 	conditional resistance
radiological resistance / to UV radiation	conditional resistance
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free 	Yes
<ul style="list-style-type: none"> silicon-free 	Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum 	3000 m
<ul style="list-style-type: none"> for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum 	1040 m
<ul style="list-style-type: none"> for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum 	600 m
<ul style="list-style-type: none"> for glass FOC / for 1000BaseLSX / for Industrial Ethernet / maximum 	1000 m
<ul style="list-style-type: none"> for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum 	550 m
<ul style="list-style-type: none"> for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum 	300 m
<ul style="list-style-type: none"> for glass FOC / with 25GBaseSR / for Industrial Ethernet / maximum 	100 m
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> UL approval 	Yes; c(UL)us OFN/OFNG - FT4
<ul style="list-style-type: none"> RoHS conformity 	Yes
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 	WH
<ul style="list-style-type: none"> according to IEC 81346-2:2019 	WHA
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAX-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com
security information / header	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected

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Approvals / Certificates

General Product Approval



[Manufacturer Declaration](#)

[Environmental Conformations](#)

Environment

last modified:

8/8/2025 