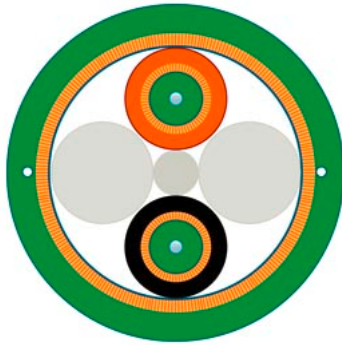


product description

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



Technical Product Detail Page

<https://i.siemens.com/1P6XV1873-2F>

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 2.5 dB/km
- at 1300 nm / maximum 0.7 dB/km

bandwidth length product

- at 850 nm 3500 GHz·m
- at 1300 nm 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 50 µm
- of the optical fiber sheath 125 µm
- of the FOC core sheath 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 Quartz glass
- of the optical fiber sheath Quartz glass
- of the FOC core sheath FRNC
- of the fiber-optic cable sheath TPE-U
- of the strain relief Aramid fibers

color

- of the FOC core sheath orange/black
- of cable sheath green

bending radius

- with single bend / minimum permissible 88 mm
- with continuous bending 88 mm

number of bending cycles	5000000
tensile load	
• during installation / short-term	2000 N
• 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	
• during operation	-30 ... +85 °C
• during storage	-30 ... +85 °C
• during transport	-30 ... +85 °C
• 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	
• to mineral oil	according to IEC 60811-404 with test oil IRM 902 (according to ISO 1817); +100 °C; 168 h
• to grease	resistant
• to water	conditional resistance
radiological resistance / to UV radiation	conditional resistance

product features, product functions, product components / general

product feature	
• halogen-free	Yes
• silicon-free	Yes
product component / rodent protection	No
wire length	
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	3000 m
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	1040 m
• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	600 m
• for glass FOC / for 1000BaseLSX / for Industrial Ethernet / maximum	1000 m
• for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum	550 m
• for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum	300 m
• for glass FOC / with 25GBaseSR / for Industrial Ethernet / maximum	100 m

standards, specifications, approvals

certificate of suitability	
• UL approval	Yes; c(UL)us OFN/OFNG - FT4
• 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

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
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networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <https://www.siemens.com/cert>. (V4.7)

Approvals / Certificates

General Product Approval

Environment



[Manufacturer Declaration](#)

[Environmental Conformations](#)

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