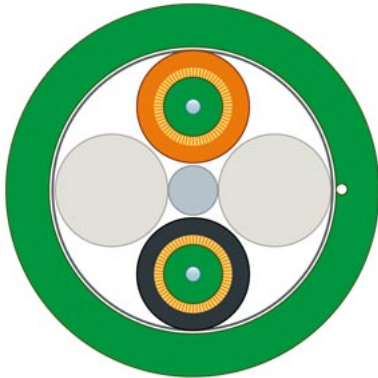


product description

single-mode glass fiber-optic cable, sold by the meter, unassembled

SM FO FRNC cable GP (2E9/125), halogen-free cable, splittable, for permanent routing, max. length 1000 m minimum order quantity 20 m sold by the meter.



suitability for use

Halogen-free cable (acc. to IEC 61034-1 / 61034-2 and IEC 60754-1 / IEC 60754-2) for use indoors and outdoors with permanent installation, UL approval

version of the assembled FO cable

sold by the meter

cable designation

AT-V(ZN)HH 2E9/125 TB900L 2,2

optical data

attenuation factor per length

- at 1550 nm / maximum

0.22 dB/km

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

2

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

9 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

7.2 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

FRNC

Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black

green

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

70 mm

105 mm

tensile load

- during installation / short-term
- during operation / maximum

800 N

250 N

short-term shear force per length

500 N/cm

weight per length

57 kg/km

ambient conditions

ambient temperature

- during operation

-30 ... +85 °C

<ul style="list-style-type: none"> during storage during transport during installation 	<p>-30 ... +85 °C</p> <p>-30 ... +85 °C</p> <p>-5 ... +50 °C</p>
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
class of burning behaviour / according to EN 13501-6	B2ca - s1a d1 a1
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	<p>no resistance</p> <p>conditional resistance</p> <p>conditional resistance</p>
radiological resistance / to UV radiation	conditional resistance
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	<p>Yes</p> <p>Yes</p>
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum for glass FOC / for 10GBaseLR / for Industrial Ethernet / maximum for glass FOC / with 10GBaseER / for Industrial Ethernet / maximum for glass FOC / with PROFIBUS / maximum 	<p>26000 m</p> <p>5000 m</p> <p>10000 m</p> <p>40000 m</p> <p>15000 m</p>
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> UL approval RoHS conformity 	<p>Yes; c(UL)us OFNR FT4</p> <p>Yes</p>
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	<p>WH</p> <p>WHA</p>
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/simatic-net</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
security information / header	
security information	<p>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 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)</p>
Approvals / Certificates	
General Product Approval	Environment

[Manufacturer Declaration](#)



[Environmental Conformations](#)

last modified:

11/19/2024 