

product description

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

SM FO robust cable GP (4E9/125) Outdoor cable; with Rodent protection; splittable; without connector; sold by the meter; minimum order quantity 20 m; max. length 2000 m;



suitability for use

Waterproof cable (lengthwise and sideways) with non-metallic protection against rodents for use indoors and outdoors as well as for direct routing underground

version of the assembled FO cable

sold by the meter

cable designation

AT-V(ZN)H(ZN)BH 4E9/125

optical data

attenuation factor per length

- at 1300 nm / maximum
- at 1550 nm / maximum

0.5 dB/km

0.5 dB/km

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

4

version of the FO conductor fiber

Single mode fiber 4E9/125/900, OS1 and OS2

design of the FOC core

Solid core, diameter 900 µm

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

outer diameter / of the cable

9 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

PE flame retardant

PE flame retardant

Aramid fibers, also central support element and glass roving

color

- of the FOC core sheath
- of cable sheath

orange/black, with direction arrow (core pairs numbered with 1 and 2)

Black

bending radius

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

90 mm

135 mm

tensile load

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

2000 N

1000 N

short-term shear force per length

600 N/cm

continuous shear force per length

200 N/cm

weight per length

87 kg/km

ambient conditions

ambient temperature

<ul style="list-style-type: none"> during operation during storage during transport during installation 	<p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-40 ... +70 °C</p> <p>-20 ... +60 °C</p>
fire behavior	flame-resistant acc. to IEC 60332-3-24
class of burning behaviour / according to EN 13501-6	Ccas1a,d0,a1
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	<p>conditional resistance</p> <p>conditional resistance</p> <p>resistant</p>
radiological resistance / to UV radiation	resistant
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	Yes
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; UL approval: OFN/OFNG acc. to UL 1651</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 web page: selection aid TIA Selection Tool to website: Industrial communication to website: Industry Mall to website: Information and Download Center to website: Selection guide for cables and connectors to website: Image database to website: CAx-Download-Manager to website: Industry Online Support 	<p>http://www.siemens.com/tia-selection-tool</p> <p>http://www.siemens.com/simatic-net</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>https://sie.ag/2QdlxcP</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>

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