

product type designation

product description



SM FO robust cable GP

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

For assembly with two BFOC, SC and LC duplex connectors

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 	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -20 ... +60 °C
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 	conditional resistance conditional resistance resistant
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 	Yes Yes
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 	26000 m 5000 m 10000 m 40000 m 15000 m
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> UL approval RoHS conformity 	Yes Yes
reference code	
<ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	WH WHA
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 	http://www.siemens.com/tia-selection-tool http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter https://sie.ag/2QdlxcP http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com
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