

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
PROTECTION AGAIST RODENTS; SPLITTABLE; W/O
CONNECTOR; SOLD BY THE METER; MIN. 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

Damping ratio per length	
<ul style="list-style-type: none"> at 1300 nm / maximum at 1550 nm / maximum 	<p>0.5 dB/km</p> <p>0.5 dB/km</p>

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	
<ul style="list-style-type: none"> of the optical fibers of the optical fiber sheath of the FOC core sheath 	<p>9 µm</p> <p>125 µm</p> <p>2.2 mm</p>
Outer diameter / of the cable	9 mm
Material	
<ul style="list-style-type: none"> of the fiber-optic cable core of the optical fiber sheath 	<p>Quartz glass</p> <p>Quartz glass</p>

<ul style="list-style-type: none"> • of the FOC core sheath • of the fiber-optic cable sheath • of the strain relief 	PE flame retardant PE flame retardant Aramid fibers, also central support element and glass roving
Color <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath 	Orange/black, with direction arrow (core pairs numbered with 1 and 2) Black
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	90 mm 135 mm
Tensile load / during operation / maximum	1000 N
Short-term shear force per length	600 N/cm
Continuous lateral force per length	200 N/cm
Weight per length	87 kg/km

Permitted 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
Burning behavior	Flame-resistant acc. to IEC 60332-3-24
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 properties, functions, components / general

Product property <ul style="list-style-type: none"> • halogen-free • silicon-free 	Yes Yes
Product component / Rodent protection	Yes
Cable 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

- RoHS conformity

Yes

Further Information / Internet Links

Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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