

**Product-type designation** **SM FO robust cable GP**



SM FO ROBUST CABLE GP (4E9/125) OUTDOOR CABLE;  
 WITH PROTECTION AGAINST RODENTS;  
 SPLITTABLE;  
 W/O CONNECTOR;  
 SOLD BY THE METER;  
 MIN. ORDER QUANTITY: 20 M,  
 MAX. LENGTH 2000 M

Product description Glass fiber-optic cable, sold by the meter, unassembled  
 Cable designation AT-V(ZN)H(ZN)BH 4E9/125

**Optical data**

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

**Mechanical data**

Number of fibers / per FOC core	1
Number of FOC cores / per FOC cable	4
Version of the FO conductor fiber	Single mode fiber 4E9/125/900, OS1 and OS2
Design of the fiber-optic cable	Segmentable
Outer diameter	
<ul style="list-style-type: none"> <li>• of optical fibers</li> <li>• of the optical fiber sheath</li> <li>• of the FOC core sheath</li> </ul>	<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"> <li>• of the FOC core sheath</li> <li>• of the fiber-optic cable sheath</li> </ul>	<p>PE flame retardant</p> <p>PE flame retardant</p>
Color	

• of the cable sheath	Black
Bending radius	
• with single bend / minimum permissible	90 mm
• with multiple bends / minimum permissible	135 mm
Traction stress / 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	
• during operating	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-20 ... +60 °C
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
• to water	resistant

### Product properties, functions, components / general

Product feature	
• halogen-free	Yes
• silicon-free	Yes
Product component / Rodent protection	Yes
Cable length	
• for glass FOC	
• for 100BaseFX / for Industrial Ethernet / maximum	26000 m
• for 1000BaseLX / for Industrial Ethernet / maximum	5000 m
• for 10GBaseLR / for Industrial Ethernet / maximum	10000 m
• with 10GBaseER / with Industrial Ethernet / maximum	40000 m
• for glass FOC / for PROFIBUS / maximum	15000 m

### Standards, specifications, approvals

Verification of suitability	
• RoHS conformity	Yes

### Further Information / Internet Links

Internet-Link	
• to website: Industry Mall	<a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>
• to website: Selector SIMATIC NET SELECTION TOOL	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>

- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

**letzte Änderung:**

<http://automation.siemens.com/bilddb>  
<http://www.siemens.com/cax>  
<http://support.automation.siemens.com>

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