

### product type designation

product description



### MM FO Robust Cable GP

Glass fiber-optic cable, preferred length, preassembled

FO Robust Cable GP 50/125, pre-assembled with 2x LC Duplex connectors, Length 2.0 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

Pre-assembled with 2x LC DUPLEX connectors

cable designation

AT-V(ZN)H(ZN)BH 2G50/125 OM2+

wire length

2 m

### optical data

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

2.7 dB/km

1 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

600 GHz·m

1200 GHz·m

### mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

2

version of the FO conductor fiber

Multi-mode gradient fiber 50/125/245 μm, OM2

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

50 μm

125 μm

2.2 mm

outer diameter / of the cable

7.5 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

PE flame retardant

PE flame retardant

Aramid fibers and glass roving

color

- of the FOC core sheath
- of cable sheath

orange/black, with direction arrow

Black

bending radius

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

25 mm

40 mm

tensile load

- during installation / short-term

2000 N

<ul style="list-style-type: none"> <li>during operation / maximum</li> </ul>	1000 N
short-term shear force per length	600 N/cm
continuous shear force per length	200 N/cm
weight per length	67 kg/km
<b>ambient conditions</b>	
ambient temperature	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during storage</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during transport</li> </ul>	-40 ... +70 °C
<ul style="list-style-type: none"> <li>during installation</li> </ul>	-20 ... +60 °C
fire behavior	flame-resistant acc. to IEC 60332-3-24
chemical resistance	
<ul style="list-style-type: none"> <li>to mineral oil</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>to grease</li> </ul>	conditional resistance
<ul style="list-style-type: none"> <li>to water</li> </ul>	resistant
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
<ul style="list-style-type: none"> <li>halogen-free</li> </ul>	Yes
<ul style="list-style-type: none"> <li>silicon-free</li> </ul>	Yes
product component / rodent protection	Yes
wire length	
<ul style="list-style-type: none"> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	5000 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul>	750 m
<ul style="list-style-type: none"> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	2000 m
<ul style="list-style-type: none"> <li>for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum</li> </ul>	60 m
<ul style="list-style-type: none"> <li>for glass FOC / with PROFIBUS / maximum</li> </ul>	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
<ul style="list-style-type: none"> <li>RoHS conformity</li> </ul>	Yes
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="http://www.siemens.com/tia-selection-tool">http://www.siemens.com/tia-selection-tool</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Selection guide for cables and connectors</li> </ul>	<a href="https://sie.ag/2QdlxcP">https://sie.ag/2QdlxcP</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAx-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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