

### 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 10 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

10 m

### optical data

#### attenuation factor per length

- at 850 nm / maximum 2.7 dB/km
- at 1300 nm / maximum 1 dB/km

#### bandwidth length product

- at 850 nm 600 GHz·m
- at 1300 nm 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 50 µm
- of the optical fiber sheath 125 µm
- of the FOC core sheath 2.2 mm

#### outer diameter / of the cable

7.5 mm

#### material

- of the fiber-optic cable core Quartz glass
- of the optical fiber sheath Quartz glass
- of the FOC core sheath PE flame retardant
- of the fiber-optic cable sheath PE flame retardant
- of the strain relief Aramid fibers and glass roving

#### color

- of the FOC core sheath orange/black, with direction arrow
- of cable sheath Black

#### bending radius

- with single bend / minimum permissible 25 mm
- with multiple bends / minimum permissible 40 mm

#### tensile load

- during installation / short-term 2000 N
- during operation / maximum 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	
• during operation	-40 ... +70 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
• during installation	-20 ... +60 °C
fire behavior	flame-resistant acc. to IEC 60332-3-24
chemical resistance	
• to mineral oil	conditional resistance
• to grease	conditional resistance
• to water	resistant
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
• halogen-free	Yes
• silicon-free	Yes
product component / rodent protection	Yes
wire length	
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	5000 m
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	750 m
• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	2000 m
• for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum	60 m
• for glass FOC / with PROFIBUS / maximum	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
• RoHS conformity	Yes
reference code	
• according to IEC 81346-2	WH
• according to IEC 81346-2:2019	WHA
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
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<b>Approvals / Certificates</b>	



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[Declaration of Conformity](#)

[China RoHS](#)

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