

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 3.0 m.

Technical Product Detail Page

<https://l.siemens.com/1P6XV1873-5RH30>

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

3 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

<ul style="list-style-type: none"> during installation / short-term 	2000 N
<ul style="list-style-type: none"> 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
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation 	-40 ... +70 °C
<ul style="list-style-type: none"> during storage 	-40 ... +70 °C
<ul style="list-style-type: none"> during transport 	-40 ... +70 °C
<ul style="list-style-type: none"> during installation 	-20 ... +60 °C
fire behavior	flame-resistant acc. to IEC 60332-3-24
chemical resistance	
<ul style="list-style-type: none"> to mineral oil 	conditional resistance
<ul style="list-style-type: none"> to grease 	conditional resistance
<ul style="list-style-type: none"> to water 	resistant
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> halogen-free 	Yes
<ul style="list-style-type: none"> silicon-free 	Yes
product component / rodent protection	Yes
wire length	
<ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum 	5000 m
<ul style="list-style-type: none"> for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum 	750 m
<ul style="list-style-type: none"> for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum 	2000 m
<ul style="list-style-type: none"> for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum 	60 m
<ul style="list-style-type: none"> for glass FOC / with PROFIBUS / maximum 	3000 m
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> RoHS conformity 	Yes
further information / internet links	
internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> to website: Industry Online Support 	https://support.industry.siemens.com
security information / header	
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