

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 50 m.

product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1873-5RN50
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	50 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
ambient conditions	
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
product features, product functions, product components / general	
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
standards, specifications, approvals	
certificate of suitability	
• RoHS conformity	Yes
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
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• to website: Industry Online Support	https://support.industry.siemens.com
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