

Data sheet

6XV1873-5RN50

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



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	
Damping ratio 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 • 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 • during operation / maximum	2000 N 1000 N
Short-term shear force per length	600 N/cm
Continuous lateral force per length	200 N/cm
Weight per length	67 kg/km

Ambient conditions

Ambient temperature • during operation • during storage • during transport • during installation	-40 ... +70 °C -40 ... +70 °C -40 ... +70 °C -20 ... +60 °C
Burning behavior	flame-resistant acc. to IEC 60332-3-24
Chemical resistance • to mineral oil • to grease • to water	conditional resistance conditional resistance resistant
Radiological resistance / to UV radiation	resistant

Product features, product functions, product components / general

Product feature • halogen-free • silicon-free	Yes Yes
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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: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• to website: Industrial communication	http://www.siemens.com/simatic-net
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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