SIEMENS

Data sheet 6XV1873-2R

Product type designation

Product description



MM FO Robust Cable GP

Glass fiber-optic cable, sold by the meter, unassembled MM FO ROBUST CABLE GP (2G50/125); CABLE FOR INDOOR AND OUTDOOR WITH PROTECTION AGAIST RODENTS, SPLITTABLE, W/O CONNECTOR, SOLD BY THE M MIN. ORDER QUANTITY: 20 M, MAX. LENGTH 2000 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	For assembly with two BFOC, SC and LC duplex connectors
Cable designation	AT-V(ZN)H(ZN)BH 2G50/125

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	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 operation / maximum	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
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +70 °C
during storage	-40 +70 °C
during transport	-40 +70 °C
during installation	-20 +60 °C
Burning 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 properties, functions, components / genera	al
Product property	
• halogen-free	Yes
• silicon-free	Yes
Product component / Rodent protection	Yes
Cable 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

• to website: Industrial communication

• to website: Industry Mall

• to website: Information and Download Center

• to website: Image database

• to website: CAx Download Manager

• to website: Industry Online Support

http://www.siemens.com/snst

http://www.siemens.com/simatic-net

https://mall.industry.siemens.com

http://www.siemens.com/automation/net/catalog

http://automation.siemens.com/bilddb

http://www.siemens.com/cax

https://support.industry.siemens.com

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