## **SIEMENS**

Data sheet 6XV1873-2G

## Product type designation

Product description



## **FO Ground Cable**

Glass fiber-optic cable, sold by the meter, unassembled SIMATIC NET FO GROUND CABLE, (50/125),OUTDOOR CABLE W. PROT. AGAINST RODENTS, SPLITTABLE, W/O CONNECT., SOLD BY THE METER MIN. ORDER LENGTH: 20 M, MAX. LENGTH: 2000 M

Suitability for use	Waterproof cable (lengthwise and sideways) with non-metallic
	protection against rodents for use outdoors as well as for direct
	routing underground
Version of the assembled FO cable	For assembly with four BFOC or SC connectors
Cable designation	AT-WQ(ZN)Y(ZN)B2Y 2G 50/125

Optical data	
Damping ratio per length	
• at 850 nm / maximum	2.7 dB/km
• at 1300 nm / maximum	0.7 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 μm, OM 2
Design of the FOC core	Hollow core, filled, diameter 1400 μm
Design of the fiber-optic cable	Segmentable
Outer diameter	
<ul><li>of the optical fibers</li></ul>	50 μm
<ul> <li>of the optical fiber sheath</li> </ul>	125 μm
<ul> <li>of the FOC core sheath</li> </ul>	2.9 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm

Outer diameter / of the cable	10.5 mm
Symmetrical deviation / of the outer diameter of the	0.5 mm
line	
Material	
<ul> <li>of the fiber-optic cable core</li> </ul>	Quartz glass
<ul> <li>of the optical fiber sheath</li> </ul>	Quartz glass
<ul> <li>of the FOC core sheath</li> </ul>	PVC
<ul> <li>of the fiber-optic cable sheath</li> </ul>	PE
• of the strain relief	Aramid fibers
Color	
<ul> <li>of the FOC core sheath</li> </ul>	Orange/black
• of cable sheath	Black
Bending radius	
<ul> <li>with single bend / minimum permissible</li> </ul>	105 mm
• with multiple bends / minimum permissible	155 mm
Tensile load / during operation / maximum	800 N
Short-term shear force per length	500 N/cm
Continuous lateral force per length	300 N/cm
Weight per length	90 kg/km
Permitted ambient conditions	
Ambient temperature	
during operation	-40 +85 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
during installation	-5 +50 °C
Burning behavior	Flammable
Chemical resistance	
• to mineral oil	resistant
• to grease	resistant
• to water	resistant
Radiological resistance / to UV radiation	resistant
Product properties, functions, components / general	
Product properties, functions, components / general	
• halogen-free	No
• 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

• for glass FOC / with PROFIBUS / maximum

2000 m

3000 m

Standards, specifications, approvals

Certificate of suitability

Yes RoHS conformity

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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