SIEMENS

Data sheet 6XV1873-6GT20

Product type designation

Product description



FO Ground Cable

Glass fiber-optic cable, preferred length, preassembled SIMATIC NET FO GROUND CABLE 50/ 125, PREASSEMBLED WITH 2X2 SC CONNECTORS, INSERTION GUIDE, LENGTH 200 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	Preassembled with four SC connectors
Cable designation	AT-WQ(ZN)Y(ZN)B2Y 2G 50/125
Cable length	200 m

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	
 of the optical fibers 	50 μm
 of the optical fiber sheath 	125 μm
• of the FOC core sheath	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 line	0.5 mm
Material	
 of the fiber-optic cable core 	Quartz glass
 of the optical fiber sheath 	Quartz glass
 of the FOC core sheath 	PVC
• of the fiber-optic cable sheath	PE
of the strain relief	Aramid fibers
Color	
 of the FOC core sheath 	Orange/black
• of cable sheath	Black
Bending radius	
with single bend / minimum permissible	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 +75 °C
during storage	-40 +75 °C
during transport	-40 +75 °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
Protection class IP	IP20
Product properties, functions, components / general	
halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	Yes
Cable length	100
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	5000 m

• for glass FOC / for 1000BaseSX / for Industrial 750 m Ethernet / maximum 2000 m • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum 3000 m

Standards, specifications, approvals

Certificate of suitability

• RoHS conformity

• for glass FOC / with PROFIBUS / maximum

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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