# **SIEMENS**

Data sheet 6XV1873-3GT30

## 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 BFOC CONNECTORS, INSERTION GUIDE, LENGTH 300 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	Assembled with four BFOC connectors
Cable designation	AT-WQ(ZN)Y(ZN)B2Y 2G 50/125
Cable length	300 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	
<ul> <li>of the optical fibers</li> </ul>	50 μm
<ul> <li>of the optical fiber sheath</li> </ul>	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	
<ul> <li>of the fiber-optic cable core</li> </ul>	Quartz glass
<ul> <li>of the optical fiber sheath</li> </ul>	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	l .
	No
<ul><li>halogen-free</li><li>silicon-free</li></ul>	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
 for glass FOC / for 1000BaseLX / for Industrial
 Ethernet / maximum

## Standards, specifications, approvals

• for glass FOC / with PROFIBUS / maximum

## Certificate of suitability

RoHS conformity

Yes

3000 m

## 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

last modified: 16.03.2015