SIEMENS

Data sheet

6XV1873-6GT10

<image/>	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 100 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	100 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
Draduat proportion functions, components / gapars	
Product properties, functions, components / genera Product property	
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 	2000 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 	http://www.siemens.com/snst
SELECTION TOOL	
 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/automation/net/catalog
 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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