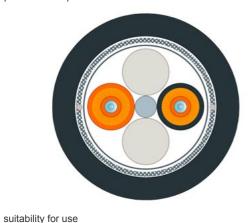
## **SIEMENS**

Data sheet 6XV1873-3GT10

## product type designation

product description



## FO Ground Cable

Glass fiber-optic cable, preferred length, preassembled

FO Ground Cable 50/125, pre-assembled 2x2 BFOC connectors, insertion aid, 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	Assembled with four BFOC connectors				
cable designation	AT-WQ(ZN)Y(ZN)B2Y 2G 50/125 OM2++				
wire length	100 m				
optical data					
attenuation factor 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				
nechanical 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				
<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 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				
<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				
<ul> <li>with multiple bends / minimum permissible</li> </ul>	155 mm				
tensile load					

<ul> <li>during installation / short-term</li> </ul>	2000 N			
during operation / maximum	800 N			
short-term shear force per length	500 N/cm			
continuous shear force per length	300 N/cm			
weight per length	90 kg/km			
ambient conditions				
ambient temperature				
<ul> <li>during operation</li> </ul>	-40 +75 °C			
during storage	-40 +75 °C			
during transport	-40 +75 °C			
during installation	-5 +50 °C			
fire 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 features, product functions, product components / gene	eral			
product feature				
halogen-free	No			
• silicon-free	Yes			
product component / rodent protection	Yes			
wire length				
<ul> <li>for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum</li> </ul>	5000 m			
<ul> <li>for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum</li> </ul>	750 m			
<ul> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	2000 m			
<ul><li>for glass FOC / with PROFIBUS / maximum</li></ul>	3000 m			
standards, specifications, approvals				
certificate of suitability				
<ul> <li>RoHS conformity</li> </ul>	Yes			
reference code				
• according to IEC 81346-2	WH			
• according to IEC 81346-2:2019	WHA			
further information / internet links				
internet link				
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358			
to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud			
to website: Industrial communication	https://www.siemens.com/simatic-net			
to web page: SiePortal	https://sieportal.siemens.com/			
to website: Image database	https://www.automation.siemens.com/bilddb			
<ul> <li>to website: CAx-Download-Manager</li> </ul>	https://www.siemens.com/cax			
to website: Industry Online Support	https://support.industry.siemens.com			
security information / header				
security information	Siemens provides products and solutions with industrial cybersecurity functions			
,	that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible			

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

**General Product Approval** 

other







Manufacturer Declaration



Confirmation

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-	n\	/112	0	nn	nο	nt

Confirmation

last modified:

8/9/2024