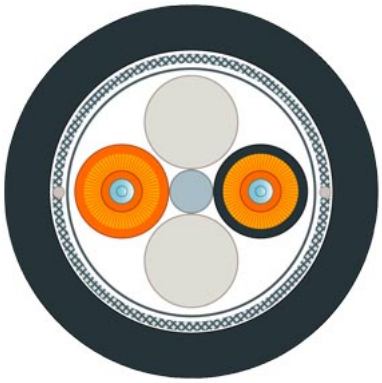
SIEMENS

Data sheet 6XV1873-3GT20

product type designation	**FO Ground Cable**
product description	Glass fiber-optic cable, preferred length, preassembled

FO Ground Cable 50/125, pre-assembled 2x2 BFOC connectors, insertion aid, 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	Assembled with four BFOC connectors
cable designation	AT-WQ(ZN)Y(ZN)B2Y 2G 50/125 OM2++
wire length	200 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
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 installation / short-term	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	
● during operation	-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 / general	
product feature	
● halogen-free	No
● silicon-free	Yes
product component / rodent protection	Yes
wire 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
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
● to website: CAx-Download-Manager	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 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	Environment
				Confirmation	Confirmation

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