

product type designation	FO Ground Cable
product description	Glass fiber-optic cable, preferred length, preassembled FO Ground Cable 50/125, pre-assembled with 2x2 SC connectors, insertion aid, length 200 m.
product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1873-6GT20
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 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	

<ul style="list-style-type: none"> during operation during storage during transport during installation 	-40 ... +75 °C
fire behavior	flammable
chemical resistance	
<ul style="list-style-type: none"> to mineral oil to grease to water 	resistant resistant resistant
radiological resistance / to UV radiation	resistant
protection class IP	IP20

product features, product functions, product components / general

product feature	
<ul style="list-style-type: none"> halogen-free silicon-free 	No Yes
product component / rodent protection	Yes
wire length	
<ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum for glass FOC / with PROFIBUS / maximum 	5000 m 750 m 2000 m 3000 m

standards, specifications, approvals

certificate of suitability	
<ul style="list-style-type: none"> RoHS conformity 	Yes

further information / internet links

internet link	
<ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to web page: identification and localization systems to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com

security information / header

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Approvals / Certificates

General Product Approval

[Declaration of Conformity](#)



EG-Konf.



CCC

[Manufacturer Declaration](#)

[China RoHS](#)



[Confirmation](#)



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