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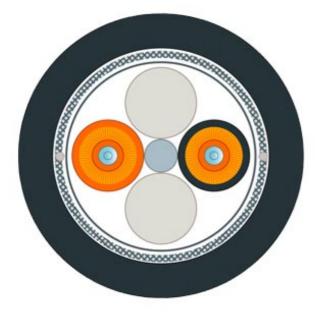
Data sheet

6XV1873-3GT30

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 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 OM2++
Wire 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	
 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 lateral 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
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 features, product functions, product compo	nents / 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	
Further information / Internet-Links		
Internet-Link		
to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst	
 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/industry/infocenter	
• 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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