SIEMENS

Data sheet 6XV1873-2B

product description	Glass fiber-optic cable, sold by the meter, unassembled
product description	
	FO FRNC Cable (50/125/OM2), halogen-free cable, splittable, for permanent routing, max. length 1000 m minimum order quantity 20 m sold by the meter
suitability for use	Halogen-free cable (acc. to IEC 61034-1 / 61034-2 and IEC 60754-1 / IEC 60754-2) for use indoors and outdoors with permanent installation, UL approval
cable designation	AT-W(ZN)HH 2G 50/125 UV OM2++
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	9.2 mm
symmetrical deviation / of the outer diameter of the line material	0.3 mm
 of the fiber-optic cable core 	Quartz glass
 of the optical fiber sheath 	Quartz glass
 of the FOC core sheath 	FRNC
 of the fiber-optic cable sheath 	FRNC
 of the strain relief 	Aramid fibers
color	
 of the FOC core sheath 	orange/black
 of cable sheath 	green
bending radius	
 with single bend / minimum permissible 	90 mm
with multiple bends / minimum permissible	135 mm
tensile load	
 during installation / short-term 	1200 N
 during operation / maximum 	500 N
short-term shear force per length	500 N/cm
weight per length	85 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +85 °C
during storage	-40 +85 °C
during transport	-40 +85 °C
during installation	-5 +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	

acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 $^{\circ}$ C, • to mineral oil 4 h and +25 °C, 168 h • to grease conditional resistance conditional resistance • to water radiological resistance / to UV radiation resistant product features, product functions, product components / general product feature • halogen-free Yes • silicon-free Yes product component / rodent protection No wire length • for glass FOC / for 100BaseFX / for Industrial 5000 m Ethernet / maximum • for glass FOC / for 1000BaseSX / for Industrial 750 m Ethernet / maximum • for glass FOC / for 1000BaseLX / for Industrial 2000 m Ethernet / maximum • for glass FOC / for 1000BaseLSX / for Industrial 2000 m Ethernet / maximum • for glass FOC / for 10GBaseLX4 / for Industrial 300 m Ethernet / maximum • for glass FOC / with PROFIBUS / maximum 3000 m standards, specifications, approvals certificate of suitability UL approval Yes; UL approval: UL OFN (NEC Article 770, UL 1651) / CSA approval: OFN FT4 (CSA standard C22.2 No. 232) 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 web page: selection aid TIA Selection Tool http://www.siemens.com/tia-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/industry/infocenter • to website: Selection guide for cables and https://sie.ag/2QdlxcP connectors http://automation.siemens.com/bilddb • to website: Image database • to website: CAx-Download-Manager http://www.siemens.com/cax https://support.industry.siemens.com • to website: Industry Online Support

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