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Data sheet 6XV1873-2B

product description	Glass fiber-optic cable, sold by the meter, unassembled
	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
version of the assembled FO cable	sold by the meter
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	0.3 mm
material	
● 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	
● to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h and +25 °C, 168 h
● to grease	conditional resistance
● to water	conditional resistance
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 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 / for 1000BaseLSX / for Industrial Ethernet / maximum	2000 m
● for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum	300 m
● for glass FOC / with PROFIBUS / maximum	3000 m
standards, specifications, approvals	
certificate of suitability	
● UL approval	Yes; c(UL)us OFN FT4
● 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	
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Approvals / Certificates

General Product Approval

CE EG-Konf.	Manufacturer Declaration	UKCA	Declaration of Conformity	CCC	UL

Environment	Industrial Communication
Confirmation	PROFINET

last modified: 11/19/2024