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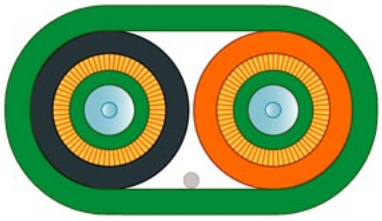
Data sheet 6XV1873-2A

product description	Glass fiber-optic cable, sold by the meter, unassembled
	FO Standard Cable GP (50/125), standard cable splittable, UL approval, max. length 1000 m minimum order quantity 20 m sold by the meter



suitability for use	Cable for installation indoors and outdoors, UL approval
cable designation	AT-W(ZN)YY 2x1 G 50/125 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
width / of cable sheath	7.4 mm
thickness / of cable sheath	4.5 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	PVC
● 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	45 mm
● with multiple bends / minimum permissible	65 mm
tensile load	
● during installation / short-term	1200 N
● during operation / maximum	500 N
short-term shear force per length	600 N/cm

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continuous shear force per length	400 N/cm
weight per length	40 kg/km
ambient conditions	
ambient temperature	
● during operation	-25 ... +80 °C
● during storage	-25 ... +80 °C
● during transport	-25 ... +80 °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
● 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	No
● 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; UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 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 connectors	https://sie.ag/2QdlxcP
● 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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