SIEMENS

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	For assembly with four BFOC or SC connectors
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	

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during installation / short-term during eneration / maximum	1200 N
during operation / maximum chart term chear force per length	500 N 500 N/cm
short-term shear force per length	
weight per length ambient conditions	85 kg/km
ambient temperature	40
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 / with PROFIBUS / maximum	3000 m
standards, specifications, approvals	
certificate of suitability	
 UL approval 	Yes
 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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