SIEMENS

Data sheet 6XV1883-7EN50

product description	SM glass fiber-optic cable, preferred length, preassembled
	FO connection cable LC/SM; pre-assembled on both ends with 2x LC duplex plugs for connection of MRB85536M; length 50 m



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1883-7EN50
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	pre-assembled with 2x LC DUPLEX connectors for connecting MRB85536M
cable designation	AT-V(ZN)HH 2E9/125 TB900L 2,2
wire length	50 m
optical data	
attenuation factor per length	
● at 1550 nm / maximum	0.22 dB/km
mechanical data	
number of fibers / per FOC core	1
number of FO cores / per FOC cable	2
version of the FO conductor fiber	single-mode fiber 4E9/125/900, OS2
design of the FOC core	fixed core (TB900L)
design of the fiber-optic cable	segmentable
outer diameter	
● of the optical fibers	9 µm
● of the optical fiber sheath	125 µm
● of the FOC core sheath	2.2 mm
symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
outer diameter / of the cable	7.2 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	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	70 mm
● with multiple bends / minimum permissible	105 mm
tensile load	
● during installation / short-term	800 N
● during operation / maximum	250 N

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short-term shear force per length	500 N/cm
weight per length	57 kg/km
ambient conditions	
ambient temperature	
● during operation	-30 ... +85 °C
● during storage	-30 ... +85 °C
● during transport	-30 ... +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	B2ca - s1a d1 a1
chemical resistance	
● to mineral oil	no resistance
● to grease	conditional resistance
● to water	conditional resistance
radiological resistance / to UV radiation	conditional resistance
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	26000 m
● for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	5000 m
● for glass FOC / for 10GBaseLR / for Industrial Ethernet / maximum	10000 m
● for glass FOC / with 10GBaseER / for Industrial Ethernet / maximum	40000 m
● for glass FOC / with PROFIBUS / maximum	15000 m
standards, specifications, approvals	
certificate of suitability	
● UL approval	Yes; c(UL)us OFNR FT4
● RoHS conformity	Yes
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	

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General Product Approval

Manufacturer Declaration



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