SIEMENS

Data sheet

6XV1843-5EH10-0CA0

product type designation product description

MM FO CORD SC/LC, 50/125

Multimode glass fiber-optic cable, preassembled

MM FO Cord SC/LC; 50/125; pre-assembled with 1x SC duplex connector and 1x LC duplex connector; length 1.0 m.



Figure similar

version of the assembled FO cable cable designation very length 1 m optical data attenuation factor per length at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km bandwidth length product at 1500 mm / maximum 1.5 dB/km 1.5	suitability for use	Cable for applications in the control cabinet
wire length optical data attenuation factor per length	version of the assembled FO cable	Pre-assembled with 1x SC DUPLEX connector and 1x LC DUPLEX connector
attenuation factor per length at 850 nm / maximum at 1300 nm / maximum 1.5 dB/km bandwidth length product at 850 nm at 1300 nm 1300 GHz/m mechanical data number of fibers / per FOC core number of FOC cores / per FOC cable 2 version of the FOC core of the optical fibers of the optical fibers of the optical fibers of the optical fibers of the foC core sheath tinckness / of cable sheath at of the fiber-optic cable sheath of the foC core sheath of the foC core sheath of the foC core sheath at of the fiber-optic cable sheath of the foC core sheath of the foC core sheath at of the foC core sheath at of the fiber-optic cable sheath of the fiber-optic cable sheath of the foC core sheath at of the foC core sheath of the foC core sheath at of the	cable designation	I-V(ZN)H 2x50/125 OM2
attenuation factor per length att 350 nm / maximum att 300 nm / maximum bandwidth length product att 850 nm att 300 nm att 300 nm att 300 nm att 300 GHz·m sold GHz·m mechanical data number of fibers / per FOC core number of FO cores / per FOC cable version of the FO conductor fiber design of the FOC core outer diameter of the optical fibers of the optical fibers sheath of the FOC core sheath thickness / of cable sheath atterial of the foc core sheath conditions of the foc core sheath atterial of the foc core sheath of the before optic cable core outer diameter e of the optical fiber sheath 125 µm width / of cable sheath 5.9 mm thickness / of cable sheath 2.8 mm material of the foc core sheath atterial of the foc core sheath FR-LSZH of the foc core sheath of the FOC core sheath FR-LSZH of the strain relief Aramid fibers color of the FOC core sheath with single bend / minimum permissible e with single bend / minimum permissible during operation / maximum outlinuous shear force per length 100 N/cm	wire length	1 m
at 850 nm / maximum at 1.5 dB/km bandwidth length product at 850 nm at 1300 nm / maximum at 850 nm bandwidth length product at 850 nm at 1300 nm / mochanical data number of fibers / per FOC core 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 outer diameter of the optical fibers of the optical fibers of the optical fiber sheath 125 μm of the FOC core sheath 2.8 mm width / of cable sheath 1.5 μm of the optical fiber sheath 2.8 mm material of the optic able sheath 0 of the fiber-optic cable core of the optic cable sheath Core sheath C	optical data	
• at 1300 nm / maximum bandwidth length product • at 850 nm • at 1300 nm	attenuation factor per length	
bandwidth length product at 850 nm bat 1300 nm bat 1300 GHz·m mochanical data number of fibers / per FOC core 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 outer diameter of the optical fibers of the optical fibers of the optical fiber sheath of the FOC core sheath 2.8 mm width of cable sheath 5.9 mm material of the fiber-optic cable core of the optical fiber sheath 2.8 mm waterial of the fiber-optic cable core of the optical fiber sheath LSZH of the FOC core sheath FR-LSZH of the FOC core sheath green/green bending radius with single bend / minimum permissible during operation / maximum 500 N continuous shear force per length 100 N/cm	• at 850 nm / maximum	3.5 dB/km
at 850 nm at 1300 nm 1300 GHz·m mechanical data number of fibers / per FOC core number of FO cores / per FOC cable 2 version of the FO conductor fiber design of the FOC core outer diameter of the optical fibers of the optical fibers of the optical fiber sheath of the FOC core sheath 2.8 mm width / of cable sheath 15.9 mm thickness / of cable sheath 2.8 mm material of the fiber-optic cable core Of the optical fiber sheath LSZH of the fiber-optic cable sheath for the FOC core sheath Quartz glass of the optical fiber sheath Summaterial of the FOC core sheath Aramid fibers of the optical fiber sheath of the FOC core sheath general SZH of the FOC core sheath Guartz glass of the optical fiber sheath of the FOC core sheath general SZH of the FOC core sheath FR-LSZH of the fiber-optic cable sheath LSZH of the strain relief color of the FOC core sheath green/green bending radius with single bend / minimum permissible during installation / short-term during operation / maximum 500 N outningous shear force per length 100 N/cm	• at 1300 nm / maximum	1.5 dB/km
e at 1300 nm mechanical data number of fibers / per FOC core	bandwidth length product	
mechanical data number of fibers / per FOC core 1 number of FO cores / per FOC cable 2 version of the FO conductor fiber design of the FOC core outer diameter • of the optical fibers • of the optical fiber sheath • of the FOC core sheath • of cable sheath 125 µm • of the FOC core sheath 2.8 mm width / of cable sheath 15.9 mm thickness / of cable sheath 0 of the fiber-optic cable core • of the optical fiber sheath Quartz glass • of the optical fiber sheath • of the FOC core sheath Summ vider of the fiber-optic cable core • of the optical fiber sheath • of the fiber-optic cable sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath bending radius • with single bend / minimum permissible • during installation / short-term • during operation / maximum 500 N • during operation / maximum 500 N continuous shear force per length	• at 850 nm	500 GHz·m
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 Fixed core outer diameter • of the optical fibers 50 µm • of the optical fiber sheath 125 µm • of the FOC core sheath 2.8 mm width / of cable sheath 5.9 mm thickness / of cable sheath 2.8 mm material • of the fiber-optic cable core Quartz glass • of the optical fiber sheath Quartz glass • of the FOC core sheath FR-LSZH • of the FOC core sheath LSZH • of the fiber-optic cable sheath gradient Grad	• at 1300 nm	1300 GHz·m
number of FO cores / per FOC cable version of the FOC core design of the FOC core outer diameter of the optical fibers so the optical fiber sheath of the FOC core sheath 2.8 mm width / of cable sheath tickness / of cable sheath 2.8 mm material of the fiber-optic cable core of the optical fiber sheath Quartz glass of the optical fiber sheath LSZH of the fiber-optic cable sheath green/green of the FOC core sheath 4.28 mm material of the fiber-optic cable core of the optical fiber sheath Quartz glass of the FOC core sheath SZH of the FOC core sheath LSZH of the fiber-optic cable sheath 4.32 mm fibers color of the FOC core sheath bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum foon N continuous shear force per length 100 N/cm	mechanical data	
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design of the FOC core outer diameter • of the optical fibers • of the optical fiber sheath • of the ptoc core sheath • of the FOC core sheath width / of cable sheath 5.9 mm thickness / of cable sheath 2.8 mm material • of the fiber-optic cable core • of the optical fiber sheath Quartz glass • of the optical fiber sheath Quartz glass • of the FOC core sheath FR-LSZH • of the fiber-optic cable sheath LSZH • of the fiber-optic cable sheath of the FOC core sheath FR-LSZH color • of the FOC core sheath bending radius • with single bend / minimum permissible tensile load • during installation / short-term • during operation / maximum 500 N continuous shear force per length 125 µm 28 mm Quartz glass Quartz glass Quartz glass Quartz glass 42 mm 500 N	number of FO cores / per FOC cable	2
outer diameter • of the optical fibers • of the optical fiber sheath • of the FOC core sheath • of the FOC core sheath width / of cable sheath thickness / of cable sheath • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the FOC core sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath bending radius • with single bend / minimum permissible tensile load • during installation / short-term • during operation / maximum continuous shear force per length 100 N/cm	version of the FO conductor fiber	Multi-mode gradient fiber 50/125 μm, OM 2
of the optical fibers of the optical fiber sheath 125 µm of the FOC core sheath 2.8 mm width / of cable sheath 5.9 mm thickness / of cable sheath 2.8 mm material of the fiber-optic cable core of the optical fiber sheath Quartz glass of the optical fiber sheath Cuartz glass of the FOC core sheath FR-LSZH of the fiber-optic cable sheath LSZH of the strain relief color of the FOC core sheath green/green bending radius with single bend / minimum permissible tensile load of during installation / short-term of the roce per length 100 N/cm	design of the FOC core	Fixed core
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of the FOC core sheath width / of cable sheath thickness / of cable sheath thickness / of cable sheath and the fiber-optic cable core of the optical fiber sheath of the optical fiber sheath of the FOC core sheath of the FOC core sheath of the strain relief of the strain relief of the FOC core sheath of the FOC core sheath of the strain relief of the strain relief of the FOC core sheath outling radius outling radius outling sheat / minimum permissible tensile load ouring installation / short-term outling operation / maximum found continuous shear force per length	 of the optical fibers 	50 μm
width / of cable sheath thickness / of cable sheath 2.8 mm material of the fiber-optic cable core of the optical fiber sheath Quartz glass of the FOC core sheath FR-LSZH of the fiber-optic cable sheath LSZH of the strain relief Aramid fibers color of the FOC core sheath green/green bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum functional fibers 5.9 mm 2.8 mm Quartz glass FR-LSZH LSZH Aramid fibers color 500 N 6 during operation / maximum functional fibers 500 N continuous shear force per length 100 N/cm	 of the optical fiber sheath 	125 μm
thickness / of cable sheath material of the fiber-optic cable core of the optical fiber sheath of the FOC core sheath of the fiber-optic cable sheath of the fiber-optic cable sheath of the strain relief color of the FOC core sheath preen/green bending radius with single bend / minimum permissible tensile load of during installation / short-term of during operation / maximum output continuous shear force per length 2.8 mm Quartz glass Quartz glass FR-LSZH LSZH Aramid fibers color green/green 42 mm 500 N 500 N	of the FOC core sheath	2.8 mm
material of the fiber-optic cable core of the optical fiber sheath Ouartz glass of the FOC core sheath of the fiber-optic cable sheath of the fiber-optic cable sheath of the strain relief Aramid fibers color of the FOC core sheath green/green bending radius with single bend / minimum permissible tensile load of during installation / short-term of during operation / maximum foo N continuous shear force per length Quartz glass Quartz glass Quartz glass Quartz glass Aramid fibers FR-LSZH LSZH Aramid fibers 42 H FR-LSZH Aramid fibers 500 N	width / of cable sheath	5.9 mm
of the fiber-optic cable core of the optical fiber sheath of the FOC core sheath of the fiber-optic cable sheath of the fiber-optic cable sheath of the strain relief of the strain relief of the FOC core sheath of the FOC core sheath of the FOC core sheath bending radius owith single bend / minimum permissible tensile load oduring installation / short-term oduring operation / maximum oduring operation / maximum shear force per length 100 N/cm	thickness / of cable sheath	2.8 mm
 of the optical fiber sheath of the FOC core sheath of the fiber-optic cable sheath LSZH of the strain relief color of the FOC core sheath bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum continuous shear force per length Quartz glass FR-LSZH LSZH Aramid fibers green/green 42 mm 500 N during operation / maximum 500 N continuous shear force per length 100 N/cm 	material	
of the FOC core sheath of the fiber-optic cable sheath of the strain relief of the strain relief color of the FOC core sheath bending radius with single bend / minimum permissible tensile load oduring installation / short-term during operation / maximum continuous shear force per length FR-LSZH LSZH Aramid fibers green/green 42 mm 500 N	 of the fiber-optic cable core 	Quartz glass
of the fiber-optic cable sheath of the strain relief Aramid fibers color of the FOC core sheath bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum continuous shear force per length LSZH Aramid fibers green/green 42 mm 500 N 500 N	 of the optical fiber sheath 	Quartz glass
of the strain relief Color of the FOC core sheath preen/green bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum continuous shear force per length Aramid fibers Aramid fibers Aramid fibers Aramid fibers Aramid fibers FOC core sheath Spreen/green 42 mm 500 N 500 N	 of the FOC core sheath 	FR-LSZH
color • of the FOC core sheath bending radius • with single bend / minimum permissible tensile load • during installation / short-term • during operation / maximum continuous shear force per length green/green 42 mm 42 mm 500 N 100 N/cm	 of the fiber-optic cable sheath 	LSZH
of the FOC core sheath bending radius with single bend / minimum permissible tensile load during installation / short-term during operation / maximum continuous shear force per length green/green 42 mm 500 N 100 N/cm	of the strain relief	Aramid fibers
bending radius • with single bend / minimum permissible tensile load • during installation / short-term • during operation / maximum continuous shear force per length 42 mm 500 N 100 N/cm	color	
with single bend / minimum permissible tensile load during installation / short-term during operation / maximum continuous shear force per length 42 mm 500 N 100 N 100 N/cm	of the FOC core sheath	green/green
tensile load • during installation / short-term • during operation / maximum continuous shear force per length 100 N/cm	bending radius	
 during installation / short-term during operation / maximum continuous shear force per length 100 N/cm 	with single bend / minimum permissible	42 mm
● during operation / maximum 500 N continuous shear force per length 100 N/cm	tensile load	
continuous shear force per length 100 N/cm	 during installation / short-term 	500 N
	during operation / maximum	500 N
ambient conditions	continuous shear force per length	100 N/cm

ambient temperature	
 during operation 	-30 +70 °C
during storage	-30 +70 °C
during transport	-30 +70 °C
during installation	-5 +50 °C
fire behavior	flame-resistant acc. to IEC 60332-3-22 (Cat. A)
protection class IP	IP20
product features, product functions, product components / ge	eneral
product feature	
halogen-free	Yes
• silicon-free	Yes
product component / rodent protection	No
standards, specifications, approvals	
certificate of suitability	
 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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