SIEMENS

Data sheet 6XV1821-0BN65

product type designation

product description

suitability for use

PROFIBUS Plastic Fiber Optic standard cable

Cable for indoor applications

Fiber-optic cable with polyoptical fiber, preferred length, preassembled

PROFIBUS Plastic Fiber Optic, Standard cable with 4 BFOC connectors, length $65\ \mathrm{m}.$



cable designation wire length optical data attenuation factor per length • at 650 nm / maximum • at 650 nm / maximum at 660 nm / maximum bandwidth length product • at 650 nm mechanical data number of fibers / per FOC core number of FO cores / per FOC cable version of the FO conductor fiber outer diameter • of the optical fibers • of the optical fiber sheath • of the FOC core sheath symmetrical deviation / of the outer diameter of the line material • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath volume riameter / on a material • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath volume riameter / of the outer diameter of the line material • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of the	version of the assembled FO cable	Assembled with four BFOC connectors
attenuation factor per length	cable designation	I-V4Y(ZN)Y 2P 980/1000
attenuation factor per length • at 650 nm / maximum • at 660 nm / maximum bandwidth length product • at 650 nm 1 GHz·m mechanical data number of fibers / per FOC care number of FO cores / per FOC cable version of the FO conductor fiber outer diameter • of the optical fiber sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line material of the fiber-optic cable core • of the optical fiber sheath of the fiber-optic cable sheath • of the FOC core sheath • of the fiber-optic cable sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of cable sheath • of cable sheath • of cable sheath • of cable sheath • of the fock ore sheath • of cable sheath • of the fock ore sheath • of cable sheath • of the fock ore sheath • of the fock or	wire length	65 m
• at 650 nm / maximum • at 660 nm / maximum 230 dB/km bandwidth length product • at 650 nm 1 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 outer diameter • of the optical fibers sheath • of the optical fiber sheath • of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line material • of the fiber-optic cable core • of the FOC core sheath • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the STOC core sheath • of the STOC core sheath • of the STOC core sheath • of the FOC core sheath • of the STOC core sheath • of cable sheath Violet bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • during installation / short-term	optical data	
at 660 nm / maximum bandwidth length product at 650 nm at 650 n	attenuation factor per length	
bandwidth length product at 650 nm mechanical data number of fibers / per FOC core 1 number of FO cores / per FOC cable 2 version of the FO conductor fiber of the optical fibers 6 of the optical fibers sheath 6 of the OC core sheath 7 outer diameter of the cable 8 symmetrical deviation / of the outer diameter of the FOC core sheath 9 symmetrical deviation / of the outer diameter of the line material 6 of the fiber-optic cable core 7 of the optical fiber sheath 9 of the fiber-optic cable sheath 9 of the fiber-optic cable sheath 9 of the fiber-optic cable sheath 9 of the strain relief Color 6 of the FOC core sheath 9 of the strain relief Color 9 of the FOC core sheath 9 of the strain relief Color 1 of the FOC core sheath 9 or ange/black 9 of cable sheath 9 or ange/black	at 650 nm / maximum	160 dB/km
■ at 650 nm 1 GHz·m mechanical data	• at 660 nm / maximum	230 dB/km
number of fibers / per FOC core number of FO cores / per FOC cable version of the FO conductor fiber outer diameter of the optical fibers heath outer diameter / of the couter diameter of the FOC core sheath outer diameter / of the couter diameter of the FOC core sheath outer diameter / of the couter diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line material of the fiber-optic cable core of the optical fiber sheath fluoridated special polymer of the FOC core sheath of the FOC core sheath of the FOC core sheath of the FOC core sheath of the fiber-optic cable sheath of the strain relief color of the Strain relief color of the FOC core sheath orange/black violet bending radius with multiple bends / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible of during installation / short-term 100 N	bandwidth length product	
number of fibers / per FOC core number of FO cores / per FOC cable version of the FO conductor fiber outer diameter • of the optical fibers • of the optical fiber sheath • of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line of the fiber-optic cable core • of the fiber-optic cable sheath • of the fiber-optic cable sheath • of the fiber-optic cable sheath • of the strain relief color • of the FOC core sheath • of the FOC core sheath • of the Strain relief color • of the FOC core sheath • of cable sheath • of able sheath • of the FOC core sheath • of the FOC core sheath • of cable sheath • of able sheath • of minimum permissible • with single bend / minimum permissible • with multiple bends / minimum permissible tensile load • during installation / short-term 100 N	• at 650 nm	1 GHz·m
number of FO cores / per FOC cable version of the FO conductor fiber outer diameter of the optical fibers sheath of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line of the fiber-optic cable core of the optical fiber sheath of the FOC core sheath fluoridated special polymer of the FOC core sheath of the fiber-optic cable sheath of the strain relief color of the FOC core sheath orange/black violet bending radius with single bend / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible outer diameter 980/1000 μm strength 980/1000	mechanical data	
version of the FO conductor fiber outer diameter • of the optical fibers • of the optical fibers • of the optical fiber sheatth • of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line material • of the fiber-optic cable core • of the optical fiber sheath • of the optical fiber sheath • of the FOC core sheath • of the fiber-optic cable sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of cable sheath • of cable sheath • of the FOC core sheath • of the FOC core sheath • of the strain relief color • of the FOC core sheath • of the strain relief color • of the strain relief color • of the FOC core sheath • of cable sheath • of cable sheath • of cable sheath • of cable sheath • of the FOC core sheath • of cable sheath • of the FOC core sheath • of cable sheath • of cable sheath • of the FOC core sheath • of cable sheath • of cable sheath • of cable sheath • with single bend / minimum permissible • with multiple bends / minimum permissible • with multiple bends / minimum permissible • during installation / short-term 100 N	number of fibers / per FOC core	1
outer diameter • of the optical fibers • of the optical fiber sheath • of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line outer diameter / of the cable 7.8 mm symmetrical deviation / of the outer diameter of the line outer diameter 0.1 mm outer diameter 0.2 mm outer diameter / of the FOC of the fiber-optic cable Polymethylmethacrylate (PMMA) Fluoridated special polymer PA of the fiber-optic cable sheath PVC Kevlar fibers color of the FOC core sheath of cable sheath bending radius of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible tensile load of during installation / short-term 100 N	number of FO cores / per FOC cable	2
of the optical fibers of the optical fiber sheath for the FOC core sheath 2.2 mm symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line material of the fiber-optic cable core of the optical fiber sheath of the optical fiber sheath of the FOC core sheath of the strain relief color of the FOC core sheath of cable sheath bending radius with single bend / minimum permissible tensile load oduring installation / short-term 980 µm 1000 µm 2.2 mm 9000 µm 90.3 mm Fluoridated special polymer Polymethylmethacrylate (PMMA) Fluoridated special polymer PA PVC Kevlar fibers color orange/black Violet 100 mm tensile load oduring installation / short-term 100 N	version of the FO conductor fiber	Step index fiber 980/1000 µm
of the optical fiber sheath of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line outer diameter / of the cable symmetrical deviation / of the outer diameter of the line 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 strain relief color of the FOC core sheath of cable sheath of cable sheath of cable sheath with single bend / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible outer diameter of the FOC on the sum of the line outer diameter of the FOC on the line outer diameter of the li	outer diameter	
of the FOC core sheath symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line symmetrical deviation / of the outer diameter of the line 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 of the FOC core sheath of the strain relief color of the FOC core sheath orange/black of cable sheath bending radius with single bend / minimum permissible with multiple bends / minimum permissible with multiple bends / minimum permissible tensile load during installation / short-term 100 N	 of the optical fibers 	980 μm
symmetrical deviation / of the outer diameter of the FOC core sheath outer diameter / of the cable symmetrical deviation / of the outer diameter of the line 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 fiber-optic cable sheath of the strain relief color of the FOC core sheath of cable sheath violet bending radius with single bend / minimum permissible tensile load of during installation / short-term 0.1 mm 7.8 mm Polymethylmethacrylate (PMMA) Fluoridated special polymer PA PVC Kevlar fibers crange/black Violet 100 mm 150 mm	 of the optical fiber sheath 	1000 μm
outer diameter / of the cable symmetrical deviation / of the outer diameter of the line of the fiber-optic cable core of the optical fiber sheath of the FOC core sheath of the fiber-optic cable sheath of the strain relief color of the FOC core sheath of cable sheath violet bending radius with single bend / minimum permissible with multiple bends / minimum permissible tensile load of during installation / short-term 7.8 mm 7.8 mm 7.8 mm 7.8 mm 7.8 mm 9.3 mm 9.3 mm Fluoridated special polymer PA PVC Kevlar fibers range/black Violet 100 mm 150 mm	of the FOC core sheath	2.2 mm
outer diameter / of the cable symmetrical deviation / of the outer diameter of the line 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 orange/black violet bending radius with single bend / minimum permissible with multiple bends / minimum permissible tensile load during installation / short-term 7.8 mm 0.3 mm Remark Name Polymethylmethacrylate (PMMA) Fluoridated special polymer PA PVC Kevlar fibers orange/black Violet 100 mm 100 mm	•	0.1 mm
symmetrical deviation / of the outer diameter of the line 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 orange/black of cable sheath violet bending radius with single bend / minimum permissible of uning installation / short-term 100 N		
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during installation / short-term 100 N		HIIII UCI
		400 N
• during operation / maximum	3	
	auring operation / maximum	100 N

weight per length ambient conditions ambient temperature during storage during installation fire behavior chemical resistance to mineral oil to grease radiological resistance / to UV radiation product feature, product functions, product components / general product features, product functions, product components / general product resistance halogen-free silicon-free product component / rodent protection wire length for POF POC / with PROFIBUS / maximum standards, specifications, approvals certificate of suitability ULL approval RoHS conformity reference code according to IEC 81346-22 according to IEC 81346-22019 further information / internet-Links Internet-Link to website: Industry Mall to website: Industry Mall to website: Industry Mall to website: CAx-Download-Manager to website: Industry Online Support http://www.siemens.com/bindustry/siemens.com http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/bindustry/siemens.com/ http://www.siemens.com/ http://www.s	short-term shear force per length	100 N/cm
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chemical resistance		** *
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connectors	• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: CAx-Download-Manager http://www.siemens.com/cax	• to website: Selection guide for cables and	
• to website: CAx-Download-Manager http://www.siemens.com/cax	• to website: Image database	http://automation.siemens.com/bilddb
• to website: Industry Online Support https://support.industry.siemens.com	_	http://www.siemens.com/cax
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