SIEMENS

Data sheet   **6XV1821-0BH50**

product type designation	**PROFIBUS Plastic Fiber Optic standard cable**
product description	Fiber-optic cable with polyoptical fiber, preferred length, preassembled
	PROFIBUS Plastic Fiber Optic, Standard cable with 4 BFOC connectors, length 5 m.

suitability for use	Cable for indoor applications
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	I-V4Y(ZN)Y 2P 980/1000
wire length	5 m
optical data	
attenuation factor per length	
● at 650 nm / maximum	160 dB/km
● 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	Step index fiber 980/1000 µm
outer diameter	
● of the optical fibers	980 µm
● of the optical fiber sheath	1000 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	7.8 mm
symmetrical deviation / of the outer diameter of the line	0.3 mm
material	
● of the fiber-optic cable core	Polymethylmethacrylate (PMMA)
● of the optical fiber sheath	Fluoridated special polymer
● of the FOC core sheath	PA
● of the fiber-optic cable sheath	PVC
● of the strain relief	Kevlar fibers
color	
● of the FOC core sheath	orange/black
● of cable sheath	Violet
bending radius	
● with single bend / minimum permissible	100 mm
● with multiple bends / minimum permissible	150 mm
tensile load	
● during installation / short-term	100 N
● during operation / maximum	100 N
short-term shear force per length	100 N/cm

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weight per length	65 kg/km
ambient conditions	
ambient temperature	
● during operation	-30 ... +70 °C
● during storage	-30 ... +70 °C
● during transport	-30 ... +70 °C
● during installation	50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2
chemical resistance	
● to mineral oil	conditional resistance
● to grease	conditional resistance
radiological resistance / to UV radiation	not resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
● halogen-free	No
● silicon-free	Yes
product component / rodent protection	No
wire length	
● for POF FOC / with PROFIBUS / maximum	80 m
standards, specifications, approvals	
certificate of suitability	
● UL approval	Yes; UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA approval: OFN (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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