

Data sheet

6XV1821-0BN25

Product type designation	PROFIBUS Plastic Fiber Optic standard cable
Product description	Fiber-optic cable with polyoptical fiber, preferred length, preassembled SIMATIC NET, PROFIBUS PLASTIC FIBER OPTIC, STANDARD CABLE WITH 4 BFOC CONNECTORS L = 25 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
Cable length	25 m
Optical data	
Damping ratio 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 • with multiple bends / minimum permissible	100 mm 150 mm
Tensile load	
• during installation / short-term • during operation / maximum	100 N 100 N
Short-term shear force per length	100 N/cm
Weight per length	65 kg/km

Permitted ambient conditions

Ambient temperature	
• during operation • during storage • during transport • during installation	-30 ... +70 °C -30 ... +70 °C -30 ... +70 °C 50 °C
Burning behavior	Flame-resistant acc. to IEC 60332-1-2
Chemical resistance	
• to mineral oil • to grease	Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	Not resistant
Protection class IP	IP20

Product properties, functions, components / general

Product property	
• halogen-free • silicon-free	No Yes
Product component / Rodent protection	No
Cable length	
• for POF FOC / with PROFIBUS / maximum	80 m

Standards, specifications, approvals

Certificate of suitability	UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA approval: OFN (CSA-Standard C22.2 No232)
• RoHS conformity	Yes

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL • to website: Industrial communication • to website: Industry Mall • to website: Information and Download Center • to website: Image database • to website: CAx Download Manager • to website: Industry Online Support	http://www.siemens.com/snst http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/automation/net/catalog http://automation.siemens.com/bilddb http://www.siemens.com/cax https://support.industry.siemens.com

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