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Data sheet 6XV1821-1BT20

product type designation
product description

suitability for use

PROFIBUS PCF Fiber Optic standard cable

Cable for indoor applications

PCF fiber-optic cable with plastic cladding, preferred length, preassembled PROFIBUS PCF Fiber Optic, with 4 PCF BFOC connectors, Length 200 m .



suitability for use	Cable for indoor applications
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	I-V(ZN)Y 2K 200/230
wire length	200 m
ptical data	
attenuation factor per length	
• at 650 nm / maximum	10 dB/km
• at 660 nm / maximum	10 dB/km
bandwidth length product	
• at 650 nm	17 GHz·m
echanical 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 200/230 µm
outer diameter	
 of the optical fibers 	200 μm
 of the optical fiber sheath 	230 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	4.7 mm
material	
• of the fiber-optic cable core	Quartz glass
 of the optical fiber sheath 	Fluoridated special polymer
• of the FOC core sheath	PVC
 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 	47 mm
with multiple bends / minimum permissible	70 mm
tensile load	
during installation / short-term	800 N
during operation / maximum	200 N
short-term shear force per length	100 N/cm
weight per length	22 kg/km

ambient conditions	
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 60332-1-2
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 / gene	ral
product feature	
halogen-free	No
• silicon-free	Yes
product component / rodent protection	No
wire length	
for PCF FOC / with PROFIBUS / maximum	400 m
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 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

General Product Approval





Declaration of Conformity



Manufacturer Declaration







<u>Confirmation</u> <u>Confirmation</u>

last modified: 8/9/2024 🖸