

## Data sheet

6XV1821-0BN65

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 65 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	65 m
<b>optical data</b>	
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
<b>mechanical data</b>	
number of fibers / per FOC core	1
number of FO cores / per FO 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

weight per length	65 kg/km				
<b>ambient conditions</b>					
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				
<b>product features, product functions, product components / general</b>					
product feature					
• halogen-free	No				
• silicon-free	Yes				
product component / rodent protection	No				
wire length					
• for POF FOC / with PROFIBUS / maximum	80 m				
<b>standards, specifications, approvals</b>					
certificate of suitability					
• UL approval	Yes; (UL) OFN				
• RoHS conformity	Yes				
reference code					
• according to IEC 81346-2	WH				
• according to IEC 81346-2:2019	WHA				
<b>further information / internet links</b>					
internet link					
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>				
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>				
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>				
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>				
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>				
• to website: CAx-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>				
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>				
<b>security information / header</b>					
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<b>Approvals / Certificates</b>					
<b>General Product Approval</b>					
 EG-Konf.	<a href="#">Declaration of Conformity</a>			<a href="#">Manufacturer Declaration</a>	<a href="#">China RoHS</a>



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