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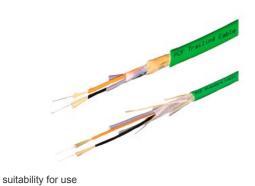
Data sheet 6XV1821-2AN50

product type designation

product description



Fiber-optic cable with polyoptical fiber (flat dual cores), 50m ring, unassembled PROFIBUS Plastic Fiber Optic, duplex core 50 m ring.



suitability for use	Indoor applications with low mechanical loads (e.g. laboratory set-ups or inside cabinets), cable lengths up to 50 m	
version of the assembled FO cable	For assembly with four Simplex connectors	
cable designation	V-2Y 2x1 P 980/1000	
wire length	50 m	
optical data		
attenuation factor per length		
• at 650 nm / maximum	10 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	
material		
 of the fiber-optic cable core 	Polymethylmethacrylate (PMMA)	
 of the optical fiber sheath 	Fluoridated special polymer	
 of the FOC core sheath 	PE	
color		
 of the FOC core sheath 	gray	
bending radius		
with single bend / minimum permissible	25 mm	
with multiple bends / minimum permissible	25 mm	
tensile load		
during operation / maximum	10 N	
short-term shear force per length	30 N/cm	
continuous shear force per length	4 N/cm	
weight per length	7.6 kg/km	
ambient conditions		
ambient temperature		
during operation	-55 +85 °C	
during storage	-55 +85 °C	

during transport	-55 +85 °C		
during installation	-5 +50 °C		
fire behavior	flame-resistant in accordance with the VW-1 flame test acc. to UL 1581		
chemical resistance			
to mineral oil	conditional resistance		
• to grease	conditional resistance		
radiological resistance / to UV radiation	not resistant		
product features, product functions, product components / gel	neral		
product feature			
halogen-free	Yes		
• silicon-free	Yes		
product component / rodent protection	No		
wire length			
for POF FOC / with PROFIBUS / maximum	80 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			
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is pecessary to implement, and continuously maintain, a holistic		

Approvals / Certificates

General Product Approval



Declaration of Conformity





https://www.siemens.com/cert. (V4.7)

Manufacturer Declaration

threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial

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Confirmation

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