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Data sheet 6XV1861-3AT10

product type designation	**PCF Standard Cable GP**
product description	PCF fiber-optic cable with plastic cladding, preferred length, preassembled
	PCF Standard Cable, pre-assembled with 2x2 BFOC plugs, insertion aid, length 100 m.

suitability for use	Cable for permanent installation indoors and outdoors, UL approval
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	AT-V(ZN)YY 2K 200/230
wire length	100 m
optical 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
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 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	7.2 mm
symmetrical deviation / of the outer diameter of the line	0.5 mm
material	
● of the fiber-optic cable core	Quartz glass
● of the optical fiber sheath	Special polymer
● of the FOC core sheath	PVC
● of the fiber-optic cable sheath	PVC
● of the strain relief	Aramid fibers
color	
● of the FOC core sheath	orange/black
● of cable sheath	green
bending radius	
● with single bend / minimum permissible	70 mm
● with multiple bends / minimum permissible	105 mm
tensile load	
● during installation / short-term	800 N
● during operation / maximum	100 N
short-term shear force per length	500 N/cm

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continuous shear force per length	300 N/cm
weight per length	45 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +85 °C
● during storage	-25 ... +75 °C
● during transport	-25 ... +75 °C
● during installation	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
● to mineral oil	conditional resistance
● to grease	conditional resistance
radiological resistance / to UV radiation	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 PCF FOC / for Industrial Ethernet / maximum	100 m
● for PCF FOC / with PROFIBUS / maximum	400 m
standards, specifications, approvals	
certificate of suitability	
● UL approval	Yes; UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)
● 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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