SIEMENS

Data sheet 6XV1861-2A

product type designation	**PCF Standard Cable GP**
product description	PCF fiber-optic cable with plastic cladding, sold by the meter, unassembled
	PCF Standard Cable, (200/230), standard cable splittable, UL approval, without connector, sold by the meter, minimum order quantity 20 m, max. length 2000 m.

suitability for use	Cable for permanent installation indoors and outdoors, UL approval
version of the assembled FO cable	sold by the meter
cable designation	AT-V(ZN)YY 2K 200/230
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
continuous shear force per length	300 N/cm

Subject to change without notice
© Copyright Siemens

weight per length	45 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +90 °C
● during storage	-40 ... +90 °C
● during transport	-40 ... +90 °C
● during installation	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
● to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h
● to grease	conditional resistance
● to water	conditional resistance
radiological resistance / to UV radiation	resistant
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; c(UL)us OFN FT4
● 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 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 cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)
Approvals / Certificates	
General Product Approval	

Manufacturer Declaration

Declaration of Conformity

Subject to change without notice
© Copyright Siemens

other	Environment	Industrial Communication
Confirmation	Confirmation	PROFINET

last modified: 11/19/2024

Subject to change without notice
© Copyright Siemens