

product type designation

product description



PCF Standard Cable GP

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

PCF Standard Cable, pre-assembled with 2x2 BFOC plugs, insertion aid, length 100 m.

product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1861-3AT10
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	

<ul style="list-style-type: none"> • during installation / short-term 	800 N
<ul style="list-style-type: none"> • during operation / maximum 	100 N
short-term shear force per length	500 N/cm
continuous shear force per length	300 N/cm
weight per length	45 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +85 °C
<ul style="list-style-type: none"> • during storage 	-25 ... +75 °C
<ul style="list-style-type: none"> • during transport 	-25 ... +75 °C
<ul style="list-style-type: none"> • during installation 	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	conditional resistance
<ul style="list-style-type: none"> • to grease 	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
<ul style="list-style-type: none"> • halogen-free 	No
<ul style="list-style-type: none"> • silicon-free 	Yes
product component / rodent protection	No
wire length	
<ul style="list-style-type: none"> • for PCF FOC / for Industrial Ethernet / maximum 	100 m
<ul style="list-style-type: none"> • for PCF FOC / with PROFIBUS / maximum 	400 m
standards, specifications, approvals	
certificate of suitability	
<ul style="list-style-type: none"> • UL approval 	Yes; c(UL)us OFN FT4
<ul style="list-style-type: none"> • RoHS conformity 	Yes
further information / internet links	
internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information / header	
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