

product type designation

product description



FC FO standard cable GP

Glass fiber-optic cable for assembly in the field, sold by the meter, unassembled

FC FO Standard Cable (62.5/200/230), Standard cable splittable, UL- approval, max. length 1000 m minimum order quantity 20 m sold by the meter

suitability for use

Cable for permanent installation in cable channels and pipes, UL approval

version of the assembled FO cable

sold by the meter

cable designation

AT-V(ZN)YY 2GK 62,5/200/230 OM1

optical data

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

3.2 dB/km
0.9 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

200 GHz·m
500 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

Multi-mode gradient fiber 62.5/200/230 μm

design of the FOC core

Fixed core

design of the fiber-optic cable

Segmentable cable

outer diameter

- of the optical fibers
- of the optical fiber sheath
- of the FOC core sheath

62.5 μm
230 μm
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
- of the optical fiber sheath
- of the FOC core sheath
- of the fiber-optic cable sheath
- of the strain relief

Quartz glass
ETFE
PVC
PVC
Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black
green

bending radius

- with single bend / minimum permissible
- with multiple bends / minimum permissible

70 mm
105 mm

tensile load

- 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	49 kg/km
ambient conditions	
ambient temperature <ul style="list-style-type: none"> during operation during storage during transport during installation 	-40 ... +85 °C -40 ... +85 °C -40 ... +85 °C -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 <ul style="list-style-type: none"> to mineral oil to grease to water 	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h conditional resistance conditional resistance
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature <ul style="list-style-type: none"> halogen-free silicon-free 	No Yes
product component / rodent protection	No
wire length <ul style="list-style-type: none"> for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum for glass FOC / with PROFIBUS / maximum 	3000 m 350 m 550 m 3000 m
standards, specifications, approvals	
certificate of suitability <ul style="list-style-type: none"> UL approval RoHS conformity 	Yes; UL OFN Yes
reference code <ul style="list-style-type: none"> according to IEC 81346-2 according to IEC 81346-2:2019 	WH WHA
further information / internet links	
internet link <ul style="list-style-type: none"> to website: Selection guide for cables and connectors to web page: selection aid TIA Selection Tool to website: Industrial communication to web page: SiePortal to website: Image database to website: CAX-Download-Manager to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/simatic-net https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
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security information	<p>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)</p>

Approvals / Certificates

General Product Approval	Environment
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[Declaration of Conformity](#)



[Confirmation](#)

Industrial Communication

[PROFINET](#)

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