

Product type designation

Product description

FC FO standard cable GP

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

SIMATIC NET FC FO STANDARD CABLE (62.5/200/230),

STANDARD- CABLE SPLITTABLE, UL- CERTIFICATION,MAX.

LENGTH 1000M MINIMAL ORDER: 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	For assembly with four BFOC or SC connectors
Cable designation	AT-V(ZN)YY 2GK 62.5/200/230

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 650 nm / maximum at 850 nm / maximum at 1300 nm / maximum 	<p>160 dB/km</p> <p>3.2 dB/km</p> <p>0.9 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> at 850 nm at 1300 nm 	<p>200 GHz·m</p> <p>500 GHz·m</p>

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	
<ul style="list-style-type: none"> of the optical fibers of the optical fiber sheath of the FOC core sheath 	<p>62.5 μm</p> <p>230 μm</p> <p>2.2 mm</p>

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 <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath 	Orange/black green
Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible 	70 mm 105 mm
Tensile load / during operation / maximum	100 N
Short-term shear force per length	500 N/cm
Continuous lateral force per length	300 N/cm
Weight per length	49 kg/km

Permitted 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
Burning 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 • to grease • to water 	Conditional resistance Conditional resistance Conditional resistance
Radiological resistance / to UV radiation	resistant

Product properties, functions, components / general

Product property <ul style="list-style-type: none"> • halogen-free • silicon-free 	No Yes
Product component / Rodent protection	No
Cable length <ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum 	3000 m

- | | |
|--|--------|
| • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 350 m |
| • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 550 m |
| • for glass FOC / with PROFIBUS / maximum | 3000 m |

Standards, specifications, approvals

- | | |
|----------------------------|---|
| Certificate of suitability | UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 Cel, FT1, FT4 (CSA-Standard C22.2 No232-M1988) |
| • RoHS conformity | Yes |

Further Information / Internet Links

- | | |
|---|---|
| Internet-Link | |
| • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
| • 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/automation/net/catalog |
| • 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 |

last modified: 09.03.2015