

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 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 OM1

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	<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 	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 <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 <ul style="list-style-type: none"> • during installation / short-term • during operation / maximum 	800 N 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

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)
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
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Product features, product functions, product components / general

Product feature	
• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	No
Wire length	
• 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 FT4 (CSA standard C22.2 No232)
• 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/industry/infocenter
• 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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