

Product type designation

Product description

FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled
FO Standard Cable GP (50/125), pre-assembled with 2x2 SC
connectors, Length 2.0 m



Suitability for use	Cable for installation indoors and outdoors, UL approval
Version of the assembled FO cable	Preassembled with four SC connectors
Cable designation	AT-W(ZN)YY 2x1 G 50/125 OM2++
Wire length	2 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 850 nm / maximum at 1300 nm / maximum 	2.7 dB/km 0.7 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> at 850 nm at 1300 nm 	600 GHz·m 1200 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 50/125 µm, OM 2
Design of the FOC core	Hollow core, filled, diameter 1400 µm
Design of the fiber-optic cable	segmentable

Outer diameter	
<ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath 	50 µm 125 µm 2.9 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
Width / of cable sheath	7.4 mm
Thickness / of cable sheath	4.5 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 Quartz glass 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 	45 mm 65 mm
Tensile load	
<ul style="list-style-type: none"> • during installation / short-term • during operation / maximum 	1200 N 500 N
Short-term shear force per length	600 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	40 kg/km

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport • during installation 	-25 ... +80 °C -25 ... +80 °C -25 ... +80 °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 	conditional resistance 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

• silicon-free	Yes
Product component / Rodent protection	No
Wire length	
• for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	5000 m
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	750 m
• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	2000 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 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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