

Product type designation

Product description

FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled
SIMATIC NET FO STANDARD CABLE 50/125, PREASSEMBLED
WITH 2X2 BFOC CONNECTORS, LENGTH 5.0 M



Suitability for use	Cable for installation indoors and outdoors, UL approval
Version of the assembled FO cable	Assembled with four BFOC connectors
Wire length	5 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 850 nm / maximum • at 1300 nm / maximum 	<p>2.7 dB/km</p> <p>0.7 dB/km</p>
Bandwidth length product	
<ul style="list-style-type: none"> • at 850 nm • at 1300 nm 	<p>600 GHz·m</p> <p>1200 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 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 	50 µm
<ul style="list-style-type: none"> • of the optical fiber sheath 	125 µm
<ul style="list-style-type: none"> • of the FOC core sheath 	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 	Quartz glass
<ul style="list-style-type: none"> • of the optical fiber sheath 	Quartz glass
<ul style="list-style-type: none"> • of the FOC core sheath 	PVC
<ul style="list-style-type: none"> • of the fiber-optic cable sheath 	PVC
<ul style="list-style-type: none"> • of the strain relief 	Aramid fibers
Color	
<ul style="list-style-type: none"> • of the FOC core sheath 	orange/black
<ul style="list-style-type: none"> • of cable sheath 	green
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible 	45 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	65 mm
Tensile load	
<ul style="list-style-type: none"> • during installation / short-term 	1200 N
<ul style="list-style-type: none"> • during operation / maximum 	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

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +80 °C
<ul style="list-style-type: none"> • during storage 	-25 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-25 ... +80 °C
<ul style="list-style-type: none"> • during installation 	-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 	conditional resistance
<ul style="list-style-type: none"> • to grease 	conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Product properties, functions, 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 glass FOC / for 100BaseFX / for Industrial Ethernet / maximum 	5000 m
<ul style="list-style-type: none"> • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum 	750 m
<ul style="list-style-type: none"> • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum 	2000 m
<ul style="list-style-type: none"> • for glass FOC / with PROFIBUS / maximum 	3000 m

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • RoHS conformity 	Yes

Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
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