

product type designation

product description

FO Trailing Cable

Glass fiber-optic cable, preferred length, preassembled

FO Trailing Cable 50/125, pre-assembled with 2x2 BFOC connectors, insertion aid, length 100 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://l.siemens.com/1P6XV1873-3CT10
suitability for use	Flexible cable for use in cable carriers for high mechanical loading, no UL approval
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++
wire length	100 m

optical data

attenuation factor 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 of the optical fiber sheath of the FOC core sheath 	<p>50 µm</p> <p>125 µm</p> <p>2.9 mm</p>
symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
outer diameter / of the cable	10.5 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 	<p>Quartz glass</p> <p>Quartz glass</p> <p>PVC</p> <p>PUR</p> <p>Aramid fibers</p>
color	
<ul style="list-style-type: none"> of the FOC core sheath of cable sheath 	<p>orange/black</p> <p>green</p>
bending radius	

<ul style="list-style-type: none"> • with single bend / minimum permissible 	150 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	200 mm
number of bending cycles	5000000
tensile load	
<ul style="list-style-type: none"> • during installation / short-term 	2000 N
<ul style="list-style-type: none"> • during operation / maximum 	800 N
short-term shear force per length	700 N/cm
continuous shear force per length	400 N/cm
weight per length	90 kg/km
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation 	-40 ... +80 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-40 ... +80 °C
<ul style="list-style-type: none"> • during installation 	-5 ... +50 °C
fire behavior	flammable
chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min
<ul style="list-style-type: none"> • to grease 	resistant
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
<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: Selection guide for cables and connectors 	https://support.industry.siemens.com/cs/ww/en/view/109766358
<ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstcloud
<ul style="list-style-type: none"> • to website: Industrial communication 	https://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • to web page: SiePortal 	https://sieportal.siemens.com/
<ul style="list-style-type: none"> • to website: Image database 	https://www.automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx-Download-Manager 	https://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com
security information / header	
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval

other

Industrial Communication



[Confirmation](#)



Profibus

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