

product description

Glass fiber-optic cable, sold by the meter, unassembled

FO Trailing Cable GP (50/125), UL approval, Trailing cable, splittable, without connector, Sold by the meter, max. length 1000 m Minimum order quantity: 20 m.



Technical Product Detail Page	<a href="https://i.siemens.com/1P6XV1873-2D">https://i.siemens.com/1P6XV1873-2D</a>
suitability for use	Flexible cable for use in cable carriers for high mechanical loading, UL approval
version of the assembled FO cable	sold by the meter
cable designation	AT-W(ZN)Y(ZN)Y 2G 50/125 OM2++
<b>optical data</b>	
attenuation factor per length	
• at 850 nm / maximum	2.7 dB/km
• at 1300 nm / maximum	0.7 dB/km
bandwidth length product	
• at 850 nm	600 GHz·m
• at 1300 nm	1200 GHz·m
<b>mechanical data</b>	
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	
• of the optical fibers	50 µm
• of the optical fiber sheath	125 µm
• of the FOC core sheath	2.9 mm
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	
• of the fiber-optic cable core	Quartz glass
• of the optical fiber sheath	Quartz glass
• of the FOC core sheath	PVC
• of the fiber-optic cable sheath	PVC
• of the strain relief	Aramid fibers
color	
• of the FOC core sheath	orange/black
• of cable sheath	green
bending radius	
• with single bend / minimum permissible	150 mm
• with multiple bends / minimum permissible	200 mm
number of bending cycles	3500000

tensile load	
• during installation / short-term	2000 N
• 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
<b>ambient conditions</b>	
ambient temperature	
• during operation	-25 ... +80 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
• during installation	-5 ... +50 °C
fire 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	
• to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h
• to grease	conditional resistance
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
<b>product features, product functions, product components / general</b>	
product feature	
• 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 / for 1000BaseLSX / for Industrial Ethernet / maximum	2000 m
• for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum	300 m
• for glass FOC / with PROFIBUS / maximum	3000 m
<b>standards, specifications, approvals</b>	
certificate of suitability	
• UL approval	Yes; c(UL)us OFN FT4
• RoHS conformity	Yes
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to website: Industrial communication	<a href="https://www.siemens.com/simatic-net">https://www.siemens.com/simatic-net</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
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<b>security information / header</b>	
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Maritime application

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