

Data sheet

6XV1873-2C

product description

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

FO Trailing Cable, (50/125), Trailing cable, splittable, without connector, sold by the meter, max. length 1000 m minimum order quantity: 20 m.



suitability for use

Flexible cable for use in cable carriers for high mechanical loading, no UL approval

version of the assembled FO cable

sold by the meter

cable designation

AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++

optical data

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

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FO 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 PUR
- 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

5000000

tensile load

- during installation / short-term 2000 N

• during operation / maximum short-term shear force per length	800 N
continuous shear force per length	700 N/cm
weight per length	400 N/cm
	90 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
• during installation	-5 ... +50 °C
fire behavior	flammable
class of burning behaviour / according to EN 13501-6	Fca
chemical resistance	
• 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
• to grease	resistant
• to water	conditional resistance
radiological resistance / to UV radiation	resistant
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	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
standards, specifications, approvals	
certificate of suitability	
• RoHS conformity	Yes
reference code	
• according to IEC 81346-2	WH
• according to IEC 81346-2:2019	WHA
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information / header	
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[Declaration of Conformity](#)



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last modified:

8/9/2024