

Data sheet

6XV1820-5AH10

product type designation

product description

Fiber optic standard cable

Flexible glass fiber-optic cable, sold by the meter, unassembled

fiber optic cable (62.5/125), standard cable splittable, without connector, sold by the meter, max. Length 2000 m minimum order quantity: 20 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1820-5AH10>

suitability for use

Cable for installation indoors and outdoors

version of the assembled FO cable

sold by the meter

cable designation

AT-V(ZN)YY 2X1 G 62,5/125 OM1

optical data

attenuation factor per length

3 dB/km

• at 850 nm / maximum

0.8 dB/km

• at 1300 nm / maximum

bandwidth length product

300 GHz·m

• at 850 nm

800 GHz·m

• at 1300 nm

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

2

version of the FO conductor fiber

Multimode graded-index fiber 62.5/125 µm, OM 1

design of the FOC core

Compact core, diameter 900 µm

design of the fiber-optic cable

Segmentable outer conductor

outer diameter

62.5 µm

• of the optical fibers

125 µm

• of the optical fiber sheath

3.5 mm

• of the FOC core sheath

width / of cable sheath

9.8 mm

thickness / of cable sheath

6.3 mm

material

Quartz glass

• of the fiber-optic cable core

Quartz glass

• of the optical fiber sheath

PVC

• of the FOC core sheath

PVC

• of the fiber-optic cable sheath

Aramid fibers and glass roving

• of the strain relief

color

gray

• of the FOC core sheath

Black

• of cable sheath

bending radius

80 mm

• with single bend / minimum permissible

80 mm

• with multiple bends / minimum permissible

tensile load

1500 N

• during installation / short-term

• during operation / maximum continuous shear force per length	1500 N 200 N/cm
weight per length	70 kg/km
ambient conditions	
ambient temperature	
• during operation	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °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	not resistant
• to grease	not 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	4000 m
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	500 m
• for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	1000 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
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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General Product Approval



EG-Konf.



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Maritime application



Environment

[Environmental Confirmations](#)

Industrial Communication

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