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Data sheet 6XV1820-5BN80

product type designation	**Fiber optic standard cable**
product description	Flexible glass fiber-optic cable, preferred length, preassembled
	fiber optic cable (62.5/125), standard cable, splittable, pre-assembled with 4 BFOC connectors, length 80 m.

product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1820-5BN80
suitability for use	Cable for installation indoors and outdoors
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	AT-V(ZN)YY 2X1 G 62,5/125 OM1
wire length	80 m
optical data	
attenuation factor per length	
● at 850 nm / maximum	3 dB/km
● at 1300 nm / maximum	0.8 dB/km
bandwidth length product	
● at 850 nm	300 GHz·m
● at 1300 nm	800 GHz·m
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	
● of the optical fibers	62.5 µm
● of the optical fiber sheath	125 µm
● of the FOC core sheath	3.5 mm
width / of cable sheath	9.8 mm
thickness / of cable sheath	6.3 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 and glass roving
color	
● of the FOC core sheath	gray
● of cable sheath	Black
bending radius	
● with single bend / minimum permissible	80 mm
● with multiple bends / minimum permissible	80 mm

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tensile load	
● during installation / short-term	1500 N
● during operation / maximum	1500 N
continuous shear force per length	150 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)
chemical resistance	
● to mineral oil	not resistant
● to grease	not resistant
radiological resistance / to UV radiation	resistant
protection class IP	IP20
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 / 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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Approvals / Certificates	
General Product Approval	

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Declaration of Conformity

Manufacturer Declaration

China RoHS

General Product Approval	Maritime application	other	Industrial Communication
		Confirmation	

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