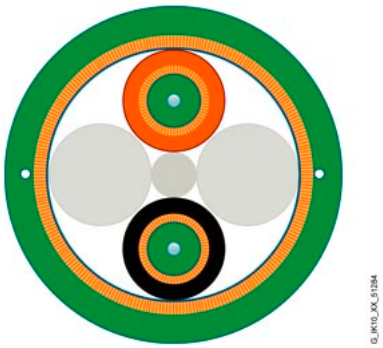
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Data sheet 6XV1873-2F

product description	Glass fiber-optic cable, sold by the meter, unassembled
	FO Flexible Cable (50/125/OM4), halogen-free fiber-optic cable, splittable, for permanent routing, max. length 1000 m minimum order quantity 20 m sold by the meter



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1873-2F
suitability for use	halogen-free cable (acc. to IEC 61034-1) for flexible applications in cable carriers both indoors and outdoors, UL approval
version of the assembled FO cable	can be assembled with BFOC, SC or LC plugs also suitable for splicing technology
cable designation	AT-V(ZN)H(ZN)11Y 2G50/125 OM4BI TB900L 2,2
optical data	
attenuation factor per length	
● at 850 nm / maximum	2.5 dB/km
● at 1300 nm / maximum	0.7 dB/km
bandwidth length product	
● at 850 nm	3500 GHz·m
● at 1300 nm	500 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	Multi-mode gradient fiber 50/125 µm, OM 4
design of the FOC core	fixed core (TB900L)
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	2.2 mm
symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
outer diameter / of the cable	8.8 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	FRNC
● of the fiber-optic cable sheath	TPE-U
● 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	88 mm

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● with continuous bending	88 mm
number of bending cycles	5000000
tensile load	
● during installation / short-term	2000 N
● during operation / maximum	600 N
short-term shear force per length	2000 N/cm
continuous shear force per length	1000 N/cm
weight per length	70 kg/km
ambient conditions	
ambient temperature	
● during operation	-30 ... +85 °C
● during storage	-30 ... +85 °C
● during transport	-30 ... +85 °C
● during installation	-5 ... +50 °C
ambient condition / for operation	impact resistance according to IEC 60794-1-2, method E4, energy 5 Nm
fire behavior	flame-resistant acc. to IEC 60332-1-2
class of burning behaviour / according to EN 13501-6	Eca
chemical resistance	
● to mineral oil	according to IEC 60811-404 with test oil IRM 902 (according to ISO 1817); +100 °C; 168 h
● to grease	resistant
● to water	conditional resistance
radiological resistance / to UV radiation	conditional resistance
product features, product functions, product components / general	
product feature	
● halogen-free	Yes
● silicon-free	Yes
product component / rodent protection	No
wire length	
● for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	3000 m
● for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	1040 m
● for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	600 m
● for glass FOC / for 1000BaseLSX / for Industrial Ethernet / maximum	1000 m
● for glass FOC / with 10GBaseSR / for Industrial Ethernet / maximum	550 m
● for glass FOC / for 10GBaseLX4 / for Industrial Ethernet / maximum	300 m
● for glass FOC / with 25GBaseSR / for Industrial Ethernet / maximum	100 m
standards, specifications, approvals	
certificate of suitability	
● UL approval	Yes; c(UL)us OFN/OFNG - FT4
● 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	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and

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solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval		Environment	
Manufacturer Declaration		Environmental Confirmations	Environmental Confirmations

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