SIEMENS

Data sheet 6XV1873-5RH20

product type designation	**MM FO Robust Cable GP**
product description	Glass fiber-optic cable, preferred length, preassembled

FO Robust Cable GP 50/125, pre-assembled with 2x LC Duplex connectors, length 2.0 m.



product brand name	SIMATIC NET
Technical Product Detail Page	https://i.siemens.com/1P6XV1873-5RH20
suitability for use	Waterproof cable (lengthwise and sideways) with non-metallic protection against rodents for use indoors and outdoors as well as for direct routing underground
version of the assembled FO cable	Pre-assembled with 2x LC DUPLEX connectors
cable designation	AT-V(ZN)H(ZN)BH 2G50/125 OM2+
wire length	2 m
optical data	
attenuation factor per length	
● at 850 nm / maximum	2.7 dB/km
● at 1300 nm / maximum	1 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 FOC cable	2
version of the FO conductor fiber	Multi-mode gradient fiber 50/125/245 µm, OM2
design of the FOC core	Solid core, diameter 900 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	2.2 mm
outer diameter / of the cable	7.5 mm
material	
● of the fiber-optic cable core	Quartz glass
● of the optical fiber sheath	Quartz glass
● of the FOC core sheath	PE flame retardant
● of the fiber-optic cable sheath	PE flame retardant
● of the strain relief	Aramid fibers and glass roving
color	
● of the FOC core sheath	orange/black, with direction arrow
● of cable sheath	Black
bending radius	
● with single bend / minimum permissible	25 mm
● with multiple bends / minimum permissible	40 mm

Subject to change without notice
© Copyright Siemens

tensile load	
● during installation / short-term	2000 N
● during operation / maximum	1000 N
short-term shear force per length	600 N/cm
continuous shear force per length	200 N/cm
weight per length	67 kg/km
ambient conditions	
ambient temperature	
● during operation	-40 ... +70 °C
● during storage	-40 ... +70 °C
● during transport	-40 ... +70 °C
● during installation	-20 ... +60 °C
fire behavior	flame-resistant acc. to IEC 60332-3-24
chemical resistance	
● to mineral oil	conditional resistance
● to grease	conditional resistance
● to water	resistant
radiological resistance / to UV radiation	resistant
product features, product functions, product components / general	
product feature	
● halogen-free	Yes
● silicon-free	Yes
product component / rodent protection	Yes
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 / with 10GBaseSR / for Industrial Ethernet / maximum	60 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	
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 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

© Copyright Siemens

Approvals / Certificates

General Product Approval

CE EG-Konf.	UKCA	Manufacturer Declaration	Declaration of Conformity	China RoHS	CE EG-Konf.

last modified: 3/10/2026

© Copyright Siemens