## **SIEMENS**

Data sheet 6XV1873-3AH50

product type designation
product description

## FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled

FO Standard Cable 50/125, pre-assembled with 2x2 BFOC connectors, length 5.0 m.



suitability for use	Cable for installation indoors and outdoors, UL approval
version of the assembled FO cable	Assembled with four BFOC connectors
cable designation	AT-W(ZN)YY 2x1 G 50/125 OM2++
wire length	5 m
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 FOC 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	
<ul> <li>of the optical fibers</li> </ul>	50 μm
<ul> <li>of the optical fiber sheath</li> </ul>	125 µm
<ul> <li>of the FOC core sheath</li> </ul>	2.9 mm
symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
width / of cable sheath	7.4 mm
thickness / of cable sheath	4.5 mm
material	
<ul> <li>of the fiber-optic cable core</li> </ul>	Quartz glass
<ul> <li>of the optical fiber sheath</li> </ul>	Quartz glass
<ul> <li>of the FOC core sheath</li> </ul>	PVC
<ul> <li>of the fiber-optic cable sheath</li> </ul>	PVC
of the strain relief	Aramid fibers
color	
<ul> <li>of the FOC core sheath</li> </ul>	orange/black
of cable sheath	green
bending radius	
<ul><li>with single bend / minimum permissible</li></ul>	45 mm
<ul> <li>with multiple bends / minimum permissible</li> </ul>	65 mm

<ul> <li>during installation / short-term</li> </ul>	1200 N	
during operation / maximum	500 N	
short-term shear force per length	600 N/cm	
continuous shear force per length	400 N/cm	
weight per length	40 kg/km	
ambient conditions		
ambient temperature		
during operation	-25 +80 °C	
during storage	-25 +80 °C	
during storage     during transport	-25 +80 °C	
during itemsport     during installation	-5 +50 °C	
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)	
chemical resistance	nume resistant doc. to the cooler is and the cooler of the cooler in the cooler of the	
• to mineral oil	conditional resistance	
• to grease	conditional resistance	
radiological resistance / to UV radiation	resistant	
protection class IP	IP20	
product features, product functions, product components / gene		
product feature	No	
<ul><li>halogen-free</li><li>silicon-free</li></ul>	Yes	
	No	
product component / rodent protection	NO .	
<ul><li>wire length</li><li>for glass FOC / for 100BaseFX / for Industrial Ethernet /</li></ul>	5000 m	
maximum	3000 III	
• for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	750 m	
<ul> <li>for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum</li> </ul>	2000 m	
<ul><li>for glass FOC / with PROFIBUS / maximum</li></ul>	3000 m	
standards, specifications, approvals		
certificate of suitability		
UL approval	Yes; UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 FT4 (CSA Standard C22.2 No. 232)	
<ul> <li>RoHS conformity</li> </ul>	Yes	
reference code		
<ul><li>according to IEC 81346-2</li></ul>	WH	
<ul> <li>according to IEC 81346-2:2019</li> </ul>	WHA	
further information / internet-Links		
Internet-Link		
<ul> <li>to web page: selection aid TIA Selection Tool</li> </ul>	http://www.siemens.com/tia-selection-tool	
<ul> <li>to website: Industrial communication</li> </ul>	http://www.siemens.com/simatic-net	
• to website: Industry Mall	https://mall.industry.siemens.com	
to website: Information and Download Center	http://www.siemens.com/industry/infocenter	
• to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP	
to website: Image database	http://automation.siemens.com/bilddb	
<ul> <li>to website: CAx-Download-Manager</li> </ul>	http://www.siemens.com/cax	
to website: Industry Online Support	https://support.industry.siemens.com	

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