SIEMENS

Data sheet

6XV1873-3AT30

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, insertion aid, length 300 m.



Suitability for use Cable for installation indoors and outdoors, UL approval version of the assembled FO cable Assembled with four FPCC connectors cable designation AT-W(ZN)YY 2x1 G 50/125 OM2++ wire length 300 m optical data		
cable designation AT-W(ZN)YY 2x1 G 50/125 OM2++ wire length 300 m optical data attenuation factor per length • at 850 nm / maximum 2.7 dB/km • at 1300 nm / maximum 0.7 dB/km • at 1300 nm / maximum 0.7 dB/km • at 850 nm / aximum 0.7 dB/km • at 1300 nm / maximum 0.7 dB/km • at 1300 nm 600 GHz:m number of fibers / per FOC core 1 number of FD Corduct fiber Multi-mode gradient fiber 50/125 µm, OM 2 design of the FOC core leade 2 version of the FOC core fiber Hollow core, filled, diameter 1400 µm design of the FDC core leade segmentable outer diameter 50 µm • of the optical fibers 50 µm • of the optical fiber sheath 125 µm • of the optical fiber sheath 2.9 mm symmetrical deviation / of the outer diameter of the FOC core sheath 2.9 mm width // of cable sheath 7.4 mm thickness / of cable sheath 7.4 mm	suitability for use	Cable for installation indoors and outdoors, UL approval
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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 50 µm • of the optical fibers 50 µm • of the optical fiber sheath 125 µm • of the FOC core sheath 2.9 mm symmetrical deviation / of the outer diameter of the FOC core 0.1 mm sweath 7.4 mm thickness / of cable sheath 4.5 mm material 0uartz glass • of the optical fiber sheath Quartz glass • of the optical bier sheath PVC • of the fiber-optic cable sheath PVC • of the fo	• at 1300 nm	1200 GHz·m
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design of the fiber-optic cable segmentable outer diameter 50 µm • of the optical fibers 50 µm • of the optical fiber sheath 125 µm • of the FOC core sheath 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 • of the fiber-optic cable core • of the fiber-optic cable sheath Quartz glass • of the fiber-optic cable sheath PVC • of the FOC core sheath PVC • of the fiber-optic cable sheath PVC • of the FOC core sheath PVC • of the strain relief Aramid fibers color orange/black orange/black • of cable sheath green bending radius 45 mm • with single bend / minimum permissible 45 mm • with multiple bends / minimum permissible 65 mm	version of the FO conductor fiber	Multi-mode gradient fiber 50/125 µm, OM 2
outer diameter50 µm• of the optical fibers50 µm• of the optical fiber sheath125 µm• of the FOC core sheath2.9 mmsymmetrical deviation / of the outer diameter of the FOC core sheath0.1 mmwidth / of cable sheath7.4 mmthickness / of cable sheath4.5 mmmaterial0 uartz glass• of the fiber-optic cable core0.1 arg glass• of the fiber-optic cable sheath9VC• of the strain reliefAramid fiberscolor0• of the FOC core sheath9• of cable sheath9• of cable sheath9• of the FOC core sheath9• of cable sheath9• of cable sheath9• of the FOC core sheath9• of the sheath9	design of the FOC core	Hollow core, filled, diameter 1400 µm
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symmetrical deviation / of the outer diameter of the FOC core sheath0.1 mmwidth / of cable sheath7.4 mmthickness / of cable sheath4.5 mmmaterialQuartz glass• of the fiber-optic cable coreQuartz glass• of the optical fiber sheathQuartz glass• of the FOC core sheathPVC• of the fiber-optic cable sheathPVC• of the strain reliefAramid fiberscolororange/black• of cable sheathgreenbending radius• with single bend / minimum permissible45 mm• with multiple bends / minimum permissible65 mm	 of the optical fiber sheath 	125 µm
sheath 7.4 mm width / of cable sheath 7.4 mm thickness / of cable sheath 4.5 mm material • of the fiber-optic cable core • of the optical fiber sheath Quartz glass • of the optic cable sheath Quartz glass • of the FOC core sheath PVC • of the fiber-optic cable sheath PVC • of the strain relief Aramid fibers color • orange/black • of cable sheath green bending radius • with single bend / minimum permissible • with multiple bends / minimum permissible 65 mm	 of the FOC core sheath 	2.9 mm
thickness / of cable sheath 4.5 mm material Quartz glass • 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 color orange/black • of cable sheath green bending radius 45 mm • with single bend / minimum permissible 45 mm	5	0.1 mm
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• of the FOC core sheath PVC • of the fiber-optic cable sheath PVC • of the strain relief Aramid fibers color	 of the fiber-optic cable core 	Quartz glass
• of the fiber-optic cable sheath PVC • of the strain relief Aramid fibers color orange/black • of the FOC core sheath orange/black • of cable sheath green bending radius 45 mm • with single bend / minimum permissible 45 mm • with multiple bends / minimum permissible 65 mm	 of the optical fiber sheath 	Quartz glass
• 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 45 mm • with multiple bends / minimum permissible 65 mm	 of the FOC core sheath 	PVC
color orange/black • of the FOC core sheath orange/black • of cable sheath green bending radius • with single bend / minimum permissible 45 mm • with multiple bends / minimum permissible 65 mm	 of the fiber-optic cable sheath 	PVC
• of the FOC core sheath orange/black • of cable sheath green bending radius • with single bend / minimum permissible 45 mm • with multiple bends / minimum permissible 65 mm	of the strain relief	Aramid fibers
• of cable sheath green bending radius	color	
bending radius • • with single bend / minimum permissible 45 mm • with multiple bends / minimum permissible 65 mm	 of the FOC core sheath 	orange/black
with single bend / minimum permissible 45 mm with multiple bends / minimum permissible 65 mm	of cable sheath	green
with single bend / minimum permissible 45 mm with multiple bends / minimum permissible 65 mm	bending radius	
	with single bend / minimum permissible	45 mm
tensile load	with multiple bends / minimum permissible	65 mm
	tensile load	

 during installation / short-term 	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 transport	-25 +80 °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	conditional resistance
• to grease	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / gene	eral
product feature	
• halogen-free	No
• silicon-free	Yes
product component / rodent protection	No
wire length	5000 m
 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 PROFIBUS / maximum 	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)
RoHS conformity	Yes
reference code	
 according to IEC 81346-2 	WH
 according to IEC 81346-2:2019 	WHA
further information / internet-Links	
Internet-Link	
 to web page: selection aid TIA Selection Tool 	http://www.siemens.com/tia-selection-tool
 to website: Industrial communication 	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
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