SIEMENS

Data sheet

product type designation product description

6XV1873-6CH30

F0 Trailing Cable 50/125, pre-assembled with 2x2 SC connectors, length 3 m. suitability for use suitability for use suitability for use seproval seproval version of the assembled F0 cable Preasembled with four SC connectors cable designation cable designatin design of th	product description	Glass fiber-optic cable, preferred length, preassembled
suitability for use Flexible cable for use in cable carriers for high mechanical loading, no UL approval version of the assembled FD cable Preassembled with four SC connectors cable designation AT-W(ZN)Y(ZN)11Y 2G 501/25 OM2++ wire length am ortical dat - entities assembled FD cable Preassembled with four SC connectors cable designation AT-W(ZN)Y(ZN)11Y 2G 501/25 OM2++ wire length - entit 300 nn / maximum 2.7 dB/km - entit 300 nn / maximum 2.7 dB/km - entit 850 nm 600 GHz m - entit 80 nm 1200 UR number of FD cores / per FDC core 1 number of FD conductor fiber Multemode gradient fiber 501/25 µm, DM 2 design of the FDC core 1 - entit explicat fibers 50 µm - of the opticat fiber sheath 25 µm - of the opticat fiber sheath 25 µm - of the opticat fiber sheath 10.5 mm - of the o		FO Trailing Cable 50/125, pre-assembled with 2x2 SC connectors, length 3 m.
approval version of the assembled FO cable Preassembled with four SC connectors cable designation AT-W(ZN)V(ZN)11Y 2G 50/125 OM2++ vite length 3 m optical data 3 m eattoruation factor per length 2.7 dB/km • at 850 nm / maximum 2.7 dB/km • at 850 nm / maximum 0.7 dB/km • at 850 nm / maximum 0.00 GHz m • at 850 nm 600 GHz m number of FD cores (per FOC core 1 number of FD cores / per FOC core Hollow core, filled, diameter 1400 µm design of the FOC core Hollow core, filled, diameter 1400 µm of the optical fibers heath 2.5 µm • of the optical fiber sheath 2.5 µm • of the optical fiber sheath 2.9 m • of the fiber-optic cable 0.5 mm	*	
cable designation AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++ wire length 3 m optical data	suitability for use	
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optical data attenuation factor per length • at 850 nm / maximum 2.7 dB/km bandwidth length product 0.7 dB/km • at 850 nm 600 GHz:m • at 850 nm 600 GHz:m • at 850 nm 1200 GHz:m • at 850 nm 600 GHz:m • at 1300 nm 1200 GHz:m number of fibers / per FOC core 1 number of FD cores / per FOC cable 2 version of the FOC 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 FOC core S0 µm • of the optical fibers 50 µm • of the optical fibers sheath 125 µm • of the optical fiber sheath 2.9 mm • of the optical fiber sheath 2.9 mm • of the optical fiber sheath 0.15 mm • of the fiber-optic cable 0.5 mm material of the fiber-optic cable core • of the fiber-optic cable core Quartz glass • of the fiber-optic cable sheath Quartz glass • of the fiber-optic cable sheath	cable designation	AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++
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• at 850 nm600 GHz:m• at 1300 nm1200 GHz:mmechanical data1number of FDe rs / per FOC core1number of FDe cores / per FOC cable2version of the FOC coreHollow core, filled, diameter 1400 µmdesign of the FOC coreHollow core, filled, diameter 1400 µmdesign of the optical fibers50 µmouter diameter50 µm• of the optical fibers50 µm• of the optical fibers sheath125 µm• of the optical fiber sheath2.9 mmsymmetrical deviation / of the outer diameter of the FOC core0.1 mmouter diameter / of the cable0.5 mmouter diameter / of the cable0.2 mmouter diameter / of the cable0.1 mmouter diameter / of the cable0.2 mmouter diameter / of the cable0.1 mmouter diameter / of the cable core0.2 mmouter diameter / of the optic cable sheath0.2 mmof the fiber-optic cable sheathPVCof the fiber-optic cable sheathPVCof the fiber-optic cable sheath0 range/blackof dable sheath0 range/blackof dable sheath9 minoumof dable sheath150 mm </td <td>• at 1300 nm / maximum</td> <td>0.7 dB/km</td>	• at 1300 nm / maximum	0.7 dB/km
• at 1300 nm1200 GHz:mmechanical datanumber of fibers / per FOC core1number of FD cores / per FOC cable2version of the FO conductor fiberHulti-mode gradient fiber 50/125 µm, OM 2design of the FDC coreHollow core, filled, diameter 1400 µmdesign of the fiber-optic cablesegmentableouter diameter50 µm• of the optical fibers50 µm• of the optical fiber sheath125 µm• of the optical fiber sheath2.9 mmsymmetrical deviation / of the outer diameter of the FOC core0.1 mmsymmetrical deviation / of the outer diameter of the Ine0.5 mmsymmetrical deviation / of the outer diameter of the line0.5 mmmaterialUartz glass• of the fiber-optic cable coreQuartz glass• of the fiber-optic cable sheathPUR• of the fiber-optic cable sheathPUR• of the fiber-optic cable sheathPUR• of the fiber-optic cable sheathCartz glass• of the fiber-optic cable sheathPUR• of the fiber-optic cable sheathCartz glass• of the fiber-optic cable sheathPUR• of the strain reliefAramid fibers• of the strain reliefIto manipulation• of the strain reliefIto manipulation• of the sheathIto manipulation• of the sheath <td>bandwidth length product</td> <td></td>	bandwidth length product	
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 50 µm • of the optical fibers 50 µm • of the optical fiber sheath 125 µm • of the core sheath 2.9 mm symmetrical deviation / of the outer diameter of the FOC core 0.1 mm sheath 0.5 mm outer diameter of the fiber-optic cable core Quartz glass • of the fiber-optic cable core Quartz glass • of the fiber-optic cable sheath PVC • of the fiber-optic cable sheath PVC • of the fiber-optic cable sheath PUR • of the FOC core sheath green • of the FOC core sheath PUR • of the FOC core sheath green • of the FOC core sheath green • of the FOC core sheath green • of the FOC core sheath	• at 850 nm	600 GHz·m
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 FOC core Hollow core, filled, diameter 1400 µm outer diameter segmentable outer diameter 50 µm of the optical fibers sheath 125 µm of the FOC core sheath 2.9 mm symmetrical deviation / of the outer diameter of the FOC core 0.1 mm symmetrical deviation / of the outer diameter of the Iine 0.5 mm outer diameter / of the cable 0.5 mm material 0 of the fiber-optic cable core of the fiber-optic cable core Quartz glass of the fiber-optic cable sheath QUartz glass of the fiber-optic cable sheath PVC of the strain relief Aramid fibers of the strain relief Aramid fibers of the strain relief Grange/black of cable sheath green bending radius green bending radius 150 mm	• at 1300 nm	1200 GHz·m
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 outer diameter / of the outer diameter of the FOC core sheath 0.1 mm symmetrical deviation / of the outer diameter of the Ine 0.5 mm outer diameter / of the cable 0.0 untr glass outer diameter / of the cable core Quartz glass outer diameter of the Ine 0.5 mm material - • of the fiber-optic cable core Quartz glass • of the fiber coptic cable sheath PVC • of the FOC core sheath PUR • of the FOC core sheath green • of the FOC core sheath orange/black • of the FOC core sheath green • of the FOC core sheath green bending radius -	mechanical data	
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design of the FOC coreHollow core, filled, diameter 1400 µmdesign of the fiber-optic cablesegmentableouter diameter• of the optical fibers50 µm• of the optical fiber sheath125 µm• of the optical fiber sheath2.9 mm• of the cable0.1 mmsymmetrical deviation / of the outer diameter of the FOC core0.1 mmouter diameter / of the cable10.5 mmouter diameter / of the cable0.1 secceeouter diameter / of the cable0.1 secceeof the fiber-optic cable core0.1 secceeof the fiber-optic cable sheath0.1 secceeof the fiber-optic cable sheath9.0 secceeof the fiber-optic cable sheath9.0 secceeof the fiber-optic cable sheath9.0 secceeof the strain relief0.1 secceeof the sheath9.0 secceeof cable sheath<	number of FO cores / per FOC cable	2
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 outer diameter / of the cable 10.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter / of the outer diameter of the line 0.5 mm outer diameter Quartz glass of the FOC core sheath Quartz glass of the FOC core sheath PUR of the FOC core sheath orange/black of the FOC core sheath orange/black of the FOC core sheath orange/black of the strain relief orange/bl	version of the FO conductor fiber	Multi-mode gradient fiber 50/125 µm, OM 2
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symmetrical deviation / of the outer diameter of the FOC core sheath0.1 mmouter diameter / of the cable10.5 mmsymmetrical deviation / of the outer diameter of the line0.5 mmmaterial0.5 mm• of the fiber-optic cable coreQuartz glass• of the optical fiber sheathQuartz glass• of the FOC core sheathPVC• of the fiber-optic cable sheathPUR• of the fiber-optic cable sheathCarrier fibers• of the fiber-optic cable sheathPuR• of the fiber-optic cable sheathGuartz glass• of the fiber-optic cable sheathPuR• of the fiber-optic cable sheathGuartz glass• of the fiber-optic cable sheathPuR• of the strain relieforange/black• of the FOC core sheathgreen• of cable sheathgreenbending radius150 mm• with single bend / minimum permissible150 mm• with multiple bends / minimum permissible200 mm	 of the optical fiber sheath 	125 µm
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materialmaterialof the fiber-optic cable coreQuartz glassof the optical fiber sheathQuartz glassof the FOC core sheathPVCof the fiber-optic cable sheathPURof the strain reliefAramid fiberscolor	outer diameter / of the cable	10.5 mm
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color orange/black • of the FOC core sheath orange/black • of cable sheath green bending radius • with single bend / minimum permissible 150 mm • with multiple bends / minimum permissible 200 mm	 of the fiber-optic cable sheath 	PUR
• of the FOC core sheathorange/black• of cable sheathgreenbending radius	of the strain relief	Aramid fibers
• of cable sheath green bending radius - • with single bend / minimum permissible 150 mm • with multiple bends / minimum permissible 200 mm		
bending radius	 of the FOC core sheath 	orange/black
with single bend / minimum permissible 150 mm with multiple bends / minimum permissible 200 mm		green
with multiple bends / minimum permissible 200 mm	-	
number of bending cycles 5000000		
	number of bending cycles	500000

FO Trailing Cable

Glass fiber-optic cable, preferred length, preassembled

- As well a local	
tensile load	2000 N
during installation / short-term	2000 N
during operation / maximum	800 N
short-term shear force per length	700 N/cm
continuous shear force per length	400 N/cm
weight per length	90 kg/km
ambient conditions	
ambient temperature	
during operation	-40 +80 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
during installation	-5 +50 °C
fire behavior	flammable
chemical resistance	
● to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +100 °C, 168 h, pull speed 250 mm/min.
to grease	resistant
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / gen	eral
product feature	
 halogen-free 	No
silicon-free	Yes
product component / rodent protection	No
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 PROFIBUS / maximum 	3000 m
standards, specifications, approvals	
certificate of suitability	
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
• to website: CAx-Download-Manager	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
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