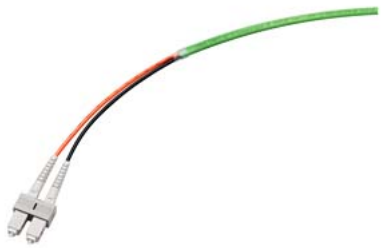
SIEMENS

Data sheet 6XV1873-6CH30

product type designation	**FO Trailing Cable**
product description	Glass fiber-optic cable, preferred length, preassembled
	FO Trailing Cable 50/125, pre-assembled with 2x2 SC connectors, length 3 m.



suitability for use	Flexible cable for use in cable carriers for high mechanical loading, no UL approval
version of the assembled FO cable	Preassembled with four SC connectors
cable designation	AT-W(ZN)Y(ZN)11Y 2G 50/125 OM2++
wire length	3 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	
● 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
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	PVC
● of the fiber-optic cable sheath	PUR
● 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	150 mm
● with multiple bends / minimum permissible	200 mm
number of bending cycles	5000000

tensile load	
● 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 / general	
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

last modified: 5/10/2022