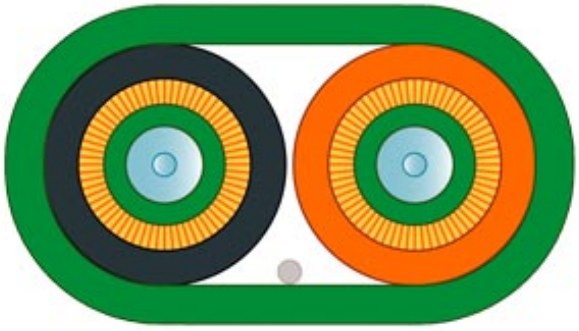
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Data sheet 6XV1873-2A

Product type designation
Product description

FO Standard Cable GP
Glass fiber-optic cable, sold by the meter, unassembled
FO Standard Cable GP (50/125), standard cable splittable, UL approval, max. length 1000 m Minimum order 20 m Sold by the meter



Suitability for use	Cable for installation indoors and outdoors, UL approval
Version of the assembled FO cable	For assembly with four BFOC or SC connectors
Cable designation	AT-W(ZN)YY 2x1 G 50/125 OM2++

Optical data	
Damping ratio 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	

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• 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	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	
• 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
Tensile load	
• during installation / short-term	1200 N
• during operation / maximum	500 N
Short-term shear force per length	600 N/cm
Continuous lateral 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
Burning behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
Class of burning behaviour / according to EN 13501-6	Eca
Chemical resistance	
• to mineral oil	acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h
• to grease	conditional resistance
• to water	conditional resistance
Radiological resistance / to UV radiation	resistant

Product features, product functions, product components / general

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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	UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 FT4 (CSA Standard C22.2 No232)
• RoHS conformity	Yes

Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	http://www.siemens.com/snst
• 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: 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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