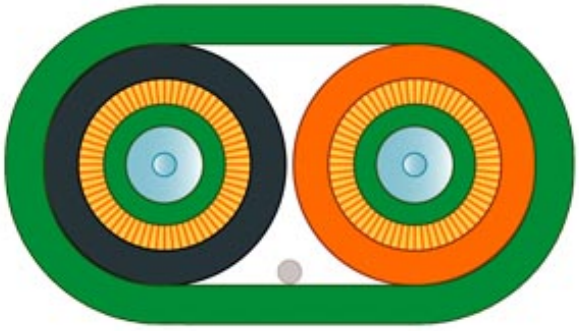
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Data sheet 6XV1873-5AH20

Product type designation
Product description

FO Standard Cable GP
Glass fiber-optic cable, preferred length, preassembled
FO Standard Cable GP 50/125, pre-assembled with 2x LC duplex connectors, Length 2.0 m



Suitability for use	Cable for installation indoors and outdoors, UL approval
Version of the assembled FO cable	Pre-assembled with 2x LC DUPLEX connectors
Cable designation	AT-W(ZN)YY 2x1 G 50/125 OM2++
Wire length	2 m

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

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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
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)
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 / general

Product feature	
• halogen-free	No

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• 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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