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Data sheet 6XV1861-7DT30

Product type designation	**PCF Trailing Cable GP**
Product description	PCF fiber-optic cable with plastic cladding, preferred length, preassembled PCF Trailing Cable GP, pre-assembled with 2x2 Simplex plugs, insertion aid, Length 300 m

Suitability for use	Cable for applications with high mechanical loading and motion (e.g. trailing cables), UL approval
Version of the assembled FO cable	Assembled with four Simplex connectors
Cable designation	AT-V(ZN)Y(ZN)Y 2K 200/230
Wire length	300 m
Optical data	
Damping ratio per length	
• at 650 nm / maximum	10 dB/km
• at 660 nm / maximum	10 dB/km
Bandwidth length product	
• at 650 nm	17 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	Step index fiber 200/230 µm
Outer diameter	

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• of the optical fibers	200 µm
• of the optical fiber sheath	230 µm
• of the FOC core sheath	2.2 mm
Symmetrical deviation / of the outer diameter of the FOC core sheath	0.1 mm
Outer diameter / of the cable	8.8 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	Special polymer
• 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	130 mm
• with multiple bends / minimum permissible	175 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	500 N/cm
Continuous lateral force per length	300 N/cm
Weight per length	85 kg/km

Ambient conditions

Ambient temperature	
• during operation	-25 ... +75 °C
• during storage	-30 ... +75 °C
• during transport	-30 ... +75 °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	

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• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	No
Wire length	
• for PCF FOC / for Industrial Ethernet / maximum	100 m
• for PCF FOC / with PROFIBUS / maximum	400 m

Standards, specifications, approvals

Certificate of suitability	UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)
• 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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