

Product type designation

Product description

PCF Trailing Cable

PCF fiber-optic cable with plastic cladding, preferred length, preassembled

PCF Trailing Cable, pre-assembled with 2x2 simplex connectors, insertion aid, Length 200 m



Suitability for use	Cable for applications with high mechanical loading, and motion (e.g. trailing cables), no UL approval
Version of the assembled FO cable	Assembled with four Simplex connectors
Cable designation	AT-V(ZN)Y(ZN)11Y 2K 200/230
Wire length	200 m

Optical data

Damping ratio per length	
<ul style="list-style-type: none"> at 650 nm / maximum at 660 nm / maximum 	10 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> 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	

<ul style="list-style-type: none"> • of the optical fibers 	200 µm
<ul style="list-style-type: none"> • of the optical fiber sheath 	230 µm
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • of the fiber-optic cable core 	Quartz glass
<ul style="list-style-type: none"> • of the optical fiber sheath 	Special polymer
<ul style="list-style-type: none"> • of the FOC core sheath 	PVC
<ul style="list-style-type: none"> • of the fiber-optic cable sheath 	PUR
<ul style="list-style-type: none"> • of the strain relief 	Aramid fibers
Color	
<ul style="list-style-type: none"> • of the FOC core sheath 	orange/black
<ul style="list-style-type: none"> • of cable sheath 	green
Bending radius	
<ul style="list-style-type: none"> • with single bend / minimum permissible 	130 mm
<ul style="list-style-type: none"> • with multiple bends / minimum permissible 	175 mm
Number of bending cycles	5000000
Tensile load	
<ul style="list-style-type: none"> • during installation / short-term 	2000 N
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • during operation 	-25 ... +75 °C
<ul style="list-style-type: none"> • during storage 	-30 ... +75 °C
<ul style="list-style-type: none"> • during transport 	-30 ... +75 °C
<ul style="list-style-type: none"> • during installation 	-5 ... +50 °C
Burning behavior	flame-retardant
Chemical resistance	
<ul style="list-style-type: none"> • to mineral oil 	resistant
<ul style="list-style-type: none"> • to grease 	resistant
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Product features, product functions, product components / general

Product feature	
<ul style="list-style-type: none"> • 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	
• 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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