

### Product type designation

Product description

### PCF Trailing Cable

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

SIMATIC NET PCF TRAILING CABLE, PREASSEMBLED WITH 2X2 BFOC CONNECTORS, INSERTION GUIDE, LENGTH 400 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 BFOC connectors
Cable designation	AT-V(ZN)Y(ZN)11Y 2K 200/230
Wire length	400 m

### Optical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>at 650 nm / maximum</li> <li>at 660 nm / maximum</li> </ul>	10 dB/km
Bandwidth length product	
<ul style="list-style-type: none"> <li>at 650 nm</li> </ul>	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"> <li>• of the optical fibers</li> </ul>	200 µm
<ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>	230 µm
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	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"> <li>• of the fiber-optic cable core</li> </ul>	Quartz glass
<ul style="list-style-type: none"> <li>• of the optical fiber sheath</li> </ul>	Special polymer
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	PVC
<ul style="list-style-type: none"> <li>• of the fiber-optic cable sheath</li> </ul>	PUR
<ul style="list-style-type: none"> <li>• of the strain relief</li> </ul>	Aramid fibers
Color	
<ul style="list-style-type: none"> <li>• of the FOC core sheath</li> </ul>	orange/black
<ul style="list-style-type: none"> <li>• of cable sheath</li> </ul>	green
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	130 mm
<ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>	175 mm
Number of bending cycles	5000000
Tensile load	
<ul style="list-style-type: none"> <li>• during installation / short-term</li> </ul>	2000 N
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	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

#### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +75 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-30 ... +75 °C
<ul style="list-style-type: none"> <li>• during transport</li> </ul>	-30 ... +75 °C
<ul style="list-style-type: none"> <li>• during installation</li> </ul>	-5 ... +50 °C
Burning behavior	flame-retardant
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	resistant
<ul style="list-style-type: none"> <li>• to grease</li> </ul>	resistant
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

#### Product properties, functions, components / general

Product feature	
<ul style="list-style-type: none"> <li>• halogen-free</li> </ul>	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	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx Download Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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