SIEMENS

## Data sheet 6XV1861-3CT30

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|---|---|
| **Product type designation** | **PCF Trailing Cable** |
| Product description | PCF fiber-optic cable with plastic cladding, preferred length, preassembled<br>PCF Trailing Cable, pre-assembled with 2x2 BFOC connectors, insertion aid, Length 300 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 | 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 | PUR |
| • 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-retardant |
| Chemical resistance | |
| • to mineral oil | resistant |
| • to grease | resistant |
| 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 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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