

### 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 BFOC connectors, insertion aid, 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        |

### 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 features, product functions, product 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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