

### Product type designation

Product description

### POF Trailing Cable

Fiber-optic cable with polyoptical fiber, sold by the meter, unassembled  
SIMATIC NET, POF TRAILING CABLE 980/1000,  
PROFINET, TRAILING CABLE, SOLD BY THE METER MIN.  
LENGTH ORDERED: 20 M MAX. LENGTH 500 M



|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| Suitability for use               | Cable for moving applications (e.g. use in cable carriers) |
| Version of the assembled FO cable | For assembly with SC RJ or SC RJ Plug PRO connectors       |
| Cable designation                 | I-V4Y(ZN)11Y 2P 980/1000 FLEX UL                           |

### Optical data

|                          |           |
|--------------------------|-----------|
| Damping ratio per length |           |
| • at 650 nm / maximum    | 180 dB/km |
| • at 660 nm / maximum    | 275 dB/km |
| Bandwidth length product |           |
| • at 650 nm              | 1 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  | POF FOC 980/1000 µm |
| Outer diameter                     |                     |
| • of the optical fibers            | 980 µm              |
| • of the optical fiber sheath      | 1000 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 mm                          |
| Material                                                                       |                               |
| • of the fiber-optic cable core                                                | Polymethylmethacrylate (PMMA) |
| • of the optical fiber sheath                                                  | Fluoridated special polymer   |
| • of the FOC core sheath                                                       | PA                            |
| • of the fiber-optic cable sheath                                              | PUR                           |
| • of the strain relief                                                         | Kevlar fibers                 |
| Color                                                                          |                               |
| • of the FOC core sheath                                                       | orange/black                  |
| • of cable sheath                                                              | green                         |
| Bending radius                                                                 |                               |
| • with single bend / minimum permissible                                       | 40 mm                         |
| • with multiple bends / minimum permissible                                    | 55 mm                         |
| • with continuous bending                                                      | 55 mm                         |
| Number of bending cycles                                                       | 5000000                       |
| Number of torsion cycles / with torsion by $\pm 360^\circ$ on 1 m cable length | 10000                         |
| Tensile load                                                                   |                               |
| • during installation / short-term                                             | 400 N                         |
| • during operation / maximum                                                   | 100 N                         |
| Short-term shear force per length                                              | 400 N/cm                      |
| Continuous lateral force per length                                            | 20 N/cm                       |
| Weight per length                                                              | 55 kg/km                      |

#### Permitted ambient conditions

|                                           |                                       |
|-------------------------------------------|---------------------------------------|
| Ambient temperature                       |                                       |
| • during operation                        | -20 ... +70 °C                        |
| • during storage                          | -40 ... +80 °C                        |
| • during transport                        | -40 ... +80 °C                        |
| • during installation                     | 5 ... 50 °C                           |
| Burning behavior                          | flame-resistant acc. to IEC 60332-1-2 |
| Chemical resistance                       |                                       |
| • to mineral oil                          | resistant                             |
| • to grease                               | resistant                             |
| Radiological resistance / to UV radiation | resistant                             |

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

|                                       |     |
|---------------------------------------|-----|
| Product feature                       |     |
| • halogen-free                        | No  |
| • silicon-free                        | Yes |
| Product component / Rodent protection | No  |

|                                                                                                     |      |
|-----------------------------------------------------------------------------------------------------|------|
| Wire length                                                                                         |      |
| <ul style="list-style-type: none"> <li>• for POF FOC / for Industrial Ethernet / maximum</li> </ul> | 50 m |

| Standards, specifications, approvals                                |                       |
|---------------------------------------------------------------------|-----------------------|
| Certificate of suitability                                          | UL-758 AWM Style 5422 |
| <ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul> | Yes                   |

| Further Information / Internet Links                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internet-Link                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> <li>• to website: Industrial communication</li> <li>• to website: Industry Mall</li> <li>• to website: Information and Download Center</li> <li>• to website: Image database</li> <li>• to website: CAx Download Manager</li> <li>• to website: Industry Online Support</li> </ul> | <a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a><br><br><a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a><br><br><a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a><br><br><a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a><br><br><a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a><br><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a><br><br><a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a> |

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