

Product type designation

Product description

PROFIBUS Plastic Fiber Optic standard cable

Fiber-optic cable with polyoptical fiber, 50m ring, unassembled
SIMATIC NET, PROFIBUS PLASTIC FIBER OPTIC (980/1000),
STANDARD CABLE 50 M RING



| | |
|-----------------------------------|---|
| Suitability for use | Cable for indoor applications |
| Version of the assembled FO cable | For assembly with four Simplex connectors |
| Cable designation | I-V4Y(ZN)Y 2P 980/1000 |
| Cable length | 50 m |

Optical data

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|--|-----------------------------------|
| Damping ratio per length | |
| <ul style="list-style-type: none"> • at 650 nm / maximum • at 660 nm / maximum | <p>160 dB/km</p> <p>230 dB/km</p> |
| Bandwidth length product | |
| <ul style="list-style-type: none"> • at 650 nm | 1 GHz·m |

Mechanical data

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|--|--|
| Number of fibers / per FOC core | 1 |
| Number of FO cores / per FOC cable | 2 |
| Version of the FO conductor fiber | Step index fiber 980/1000 µm |
| Outer diameter | |
| <ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath | <p>980 µm</p> <p>1000 µm</p> <p>2.2 mm</p> |
| Symmetrical deviation / of the outer diameter of the FOC core sheath | 0.1 mm |
| Outer diameter / of the cable | 7.8 mm |
| Symmetrical deviation / of the outer diameter of the line | 0.3 mm |

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|---|---|--|
| Material | <ul style="list-style-type: none"> • of the fiber-optic cable core • of the optical fiber sheath • of the FOC core sheath • of the fiber-optic cable sheath • of the strain relief | Polymethylmethacrylate (PMMA) fluoridated special polymer PA PVC Kevlar fibers |
| Color | <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath | Orange/black Violet |
| Bending radius | <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 100 mm 150 mm |
| Tensile load / during operation / maximum | | 100 N |
| Short-term shear force per length | | 100 N/cm |
| Weight per length | | 65 kg/km |

Permitted ambient conditions

| | | |
|---|---|---|
| Ambient temperature | <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation | -30 ... +70 °C -30 ... +70 °C -30 ... +70 °C 50 °C |
| Burning behavior | | Flame-resistant acc. to IEC 60332-1-2 |
| Chemical resistance | <ul style="list-style-type: none"> • to mineral oil • to grease | Conditional resistance Conditional resistance |
| Radiological resistance / to UV radiation | | Not resistant |

Product properties, functions, components / general

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|---------------------------------------|---|-----------|
| Product property | <ul style="list-style-type: none"> • halogen-free • silicon-free | No Yes |
| Product component / Rodent protection | | No |
| Cable length | <ul style="list-style-type: none"> • for POF FOC / with PROFIBUS / maximum | 80 m |

Standards, specifications, approvals

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|----------------------------|---|--|
| Certificate of suitability | <ul style="list-style-type: none"> • RoHS conformity | UL approval: cULus OFN FT1 (NEC Article 770, UL 1651) / CSA approval: OFN (CSA-Standard C22.2 No232) Yes |
|----------------------------|---|--|

Further Information / Internet Links

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|---------------|---|---|
| Internet-Link | <ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL | http://www.siemens.com/snst |
|---------------|---|---|

- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/automation/net/catalog>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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