

Product type designation

Product description

INDOOR fiber optic indoor cable

Glass fiber-optic cable, preferred length, preassembled SIMATIC NET, INDOOR FIBER OPTIC (62.5/125), FREE OF HALOGEN, RESIS. TO, TREADING, FLAME-RETARDANT GLASS FO CABLE FOR INDOOR INSTALLAT. PREASSEMBLED W. 4 BFOC CONNEC. L = 100 M



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| Suitability for use | Non-crush, halogen-free and flame-retardant cable for indoor installation |
| Version of the assembled FO cable | Assembled with four BFOC connectors |
| Cable designation | I-V(ZN)HH 2x1 G 62.5/125 |
| Cable length | 100 m |

Optical data

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| Damping ratio per length | |
| <ul style="list-style-type: none"> • at 850 nm / maximum • at 1300 nm / maximum | <p>3.1 dB/km</p> <p>0.8 dB/km</p> |
| Bandwidth length product | |
| <ul style="list-style-type: none"> • at 850 nm • at 1300 nm | <p>200 GHz·m</p> <p>600 GHz·m</p> |

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 | Multimode graded-index fiber 62.5/125 µm, OM 1 |
| Design of the FOC core | Solid core, diameter 900 µm |
| Design of the fiber-optic cable | Segmentable inner conductor |
| Outer diameter | |
| <ul style="list-style-type: none"> • of the optical fibers • of the optical fiber sheath • of the FOC core sheath | <p>62.5 µm</p> <p>125 µm</p> <p>2.9 mm</p> |

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| Symmetrical deviation / of the outer diameter of the FOC core sheath | 0.1 mm |
| Width / of cable sheath | 6.8 mm |
| Thickness / of cable sheath | 3.9 mm |
| 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 | Quartz glass Quartz glass FRNC FRNC Aramid fibers |
| Color <ul style="list-style-type: none"> • of the FOC core sheath • of cable sheath | Gray orange |
| Bending radius <ul style="list-style-type: none"> • with single bend / minimum permissible • with multiple bends / minimum permissible | 30 mm 50 mm |
| Tensile load / during operation / maximum | 200 N |
| Short-term shear force per length | 300 N/cm |
| Continuous lateral force per length | 100 N/cm |
| Weight per length | 30 kg/km |

Permitted ambient conditions

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| Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport • during installation | -20 ... +60 °C -25 ... +70 °C -25 ... +70 °C -5 ... +50 °C |
| Burning behavior | Flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A) |
| Chemical resistance <ul style="list-style-type: none"> • to mineral oil • to grease | acc. to IEC 60811-404 with test oil IRM 902 (acc. to ISO 1817), +70 °C, 4 h and +25 °C, 168 h not resistant |
| Radiological resistance / to UV radiation | Not resistant |
| Protection class IP | IP20 |

Product properties, functions, components / general

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| Product property <ul style="list-style-type: none"> • halogen-free • silicon-free | Yes Yes |
| Product component / Rodent protection | No |
| Cable length <ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum | 4000 m |

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|----------------------------------------------------------------------|--------|
| • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 350 m |
| • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 550 m |
| • for glass FOC / with PROFIBUS / maximum | 3000 m |

Standards, specifications, approvals

Certificate of suitability

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|-------------------|-----|
| • RoHS conformity | Yes |
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Further Information / Internet Links

Internet-Link

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| • 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/automation/net/catalog |
| • 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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