



Product: [GUMTF72](#)

Universal tight buffered distribution cable LSZH jacket 72f SM OS2 G.657.A2.

Product Description

Universal (Indoor/Outdoor) tight buffered optical fiber distribution cable with Low Smoke Zero Halogen outer jacket. 72 fibers SM OS2 G.657.A2.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Construction Type: | Distribution |
| Environmental Space: | Indoor/Outdoor |
| Suitable Applications: | For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Not suitable for blown installation. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2 | G.657A2 | 72 |

| | |
|---------------------|--|
| Fiber Color Coding: | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |
|---------------------|--|

Buffer Specification

| Fiber Type | Buffer Construction | Buffer Material | Buffer Diameter |
|------------|---------------------|---|-----------------|
| OS2 | Tight | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.9 mm |

| | |
|--------------------------|-----------|
| Central Strength Member: | GRP |
| Cable Core Water Tight: | Yes |
| Bulk Cable Weight: | 384 kg/km |

SubUnit Specifications

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|------------------------------|----------------------------|
| Number of Active Subunits: | 6 |
| Number of Subunit Positions: | 6 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 6.1 mm |
| Subunit Waterblocking: | Waterblocking Aramid Yarns |

Jacket Specifications

| | |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
| Type of Armor: | Non-Armored |

Outer Jacket Specifications

Outer Jacket

| Material | Nominal Diameter | Ripcord |
|---|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 20.9 mm | No |

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| Table Notes: | Standard color: Orange. Available colors: Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Black, Lime Green |
|--------------|--|

Optical Characteristics

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|------------------------------|------------|
| Max. Attenuation at 1310 nm: | 0.40 dB/km |
| Max. Attenuation at 1550 nm: | 0.30 dB/km |
| Max. Attenuation at 1625 nm: | 0.30 dB/km |

Mechanical Characteristics

Mechanical Tests

| Description | Tested Standard | Requirement/Value | According to Family Specification |
|---|--------------------|-------------------|-----------------------------------|
| Cable Min. Bend Radius Installation (Short Term) | IEC 60794-1-21-E6 | 418 mm | IEC 60794-2-20 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 209 mm | IEC 60794-2-20 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 2700 N (607 lbf) | IEC 60794-2-20 |
| Cable Max. Tensile Strength Operation (Long Term) | | 900 N (202 lbf) | |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 5 kN/m | IEC 60794-2-20 |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 3 kN/m | IEC 60794-2-20 |

Temperature Range

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|---------------------------------|------------------|
| Operating Temperature Range: | -30 °C to +70 °C |
| Installation Temperature Range: | -5 °C to +50 °C |
| Storage Temperature Range: | -30 °C to +70 °C |

Standards

| | |
|--|----------------------------|
| UL Rating/Flame Test: | Non-UL Rated |
| IEC Flammability: | IEC 60332-1-2 |
| Reaction to Fire - Bundle Flame Test: | IEC 60332-3-24 |
| IEC 60754-1 - Halogen Amount: | Zero |
| IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity: | 10 µS/mm |
| IEC 60754-2 - Halogen Acid Gas Amount - Min. pH: | 4,3 |
| REACH: | Compliant |
| ISO/IEC Compliance: | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant |
| UV/ Sunlight Protection: | Yes |

History

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|----------------------|---|
| Update and Revision: | Revision Number: 0.50 Revision Date: 09-17-2024 |
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