



Product: [GUUNI16](#)

Universal OFC CLT (jelly filled): FRP + LSZH + PA + LSZH with 1 Tube of Ø3.3mm 16f SM OS2 G.657.B3.

Product Description

Universal (Indoor/Outdoor) optical fiber Central Loose Tube (jelly filled tube) cable with , Fiber Reinforced Plastic (Full Rodent Protected) inner armor, Low Smoke Zero Halogen inner jacket, termite protection by polyamide layer and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Fiber Reinforced Plastic (Full Rodent Protected)termite protection by polyamide layer and . Existing out of 1 Tube with a diameter of 3.3mm with 16 fibers SM OS2 G.657.B3.

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Construction Type: | Central Loose Tube |
| 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. Easy to install in ducts, tunnels and/or tubes. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count | Subunit Color |
|---------------------------|------------------------|--|---------------------------------|
| OS2 | G.657B3 | 16 | TIA coding (Gxxxxxx.T): Natural |
| Fiber Color Coding: | | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua. With Ringmark: BL, OR, GR, BR | |
| Cable Core Water Tight: | | Yes | |
| Cable Core Waterblocking: | | Waterblock Tape | |
| Bulk Cable Weight: | | 155 kg/km | |

SubUnit Specifications

| | |
|------------------------------|------------|
| Number of Active Subunits: | 1 |
| Number of Subunit Positions: | 1 |
| Fibers Per Subunit: | 16 |
| Subunit Diameter: | 3.3 mm |
| Subunit Waterblocking: | Gel Filled |

Jacket Specifications

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|--------------------|--------------------------|
| Number of Jackets: | Triple Jacket |
| Type of Armor: | Fiber Reinforced Plastic |

Inner Jacket

| | |
|------------------------|---|
| Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Material@InnerJacket2: | Nylon |

Outer Jacket Specifications

Outer Jacket

| Material | Color | Nominal Diameter | Ripcord |
|--|-------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | Black | 11.4 mm | No |
| Table Notes: Standard color: Black. 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 | 228 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 228 mm | IEC 60794-3-10 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 3250 N (731 lbf) | IEC 60794-3-10 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 1100 N (247 lbf) | IEC 60794-3-10 |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 22 kN/m | IEC 60794-3-10 |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 11 kN/m | IEC 60794-3-10 |

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 60332-3-25 |
| 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: 0.13 Revision Date: 09-17-2024 |
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