



Product: [GUUND02](#)

Universal OFC CLT (jelly filled): FRP + LSZH + PA + LSZH with 1 Tube of Ø3.3mm 2f MM OM3.

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 2 fibers MM OM3.

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 Count | Subunit Color                   |
|------------|-------------|---------------------------------|
| OM3        | 2           | TIA coding (Gxxxxxx.T): Natural |

|                           |                                      |
|---------------------------|--------------------------------------|
| Fiber Color Coding:       | TIA coding (Gxxxxxx.T): Blue, Orange |
| 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:          | 2          |
| Subunit Diameter:            | 3.3 mm     |
| Subunit Waterblocking:       | Gel Filled |

Jacket Specifications

|                    |                          |
|--------------------|--------------------------|
| 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

|                              |           |
|------------------------------|-----------|
| Max. Attenuation at 1300 nm: | 0.9 dB/km |
| Max. Attenuation at 850 nm:  | 2.9 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

|                                 |                  |
|---------------------------------|------------------|
| 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

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.13 Revision Date: 09-17-2024 |
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