



**Product:** [GUFN224](#)

Universal OFC CLT (jelly filled): FRP + LSZH with 1 Tube of Ø3.3mm 24f MM OM2. CPR Eca.

## Product Description

Universal (Indoor/Outdoor) optical fiber Central Loose Tube (jelly filled tube) cable with Fiber Reinforced Plastic (Full Rodent Protected) armor and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Fiber Reinforced Plastic (Full Rodent Protected). Existing out of 1 Tube with a diameter of 3.3mm with 24 fibers MM OM2. CPR Euroclass Eca.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Construction Type:     | Central Loose Tube  |
| Environmental Space:   | Indoor/Outdoor - Euroclass Eca  |
| 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 trenches and/or tubes. Suitable for Direct Burial. |

### Construction

#### Fiber Cable Construction

| Fiber Type                | Fiber Count   | Subunit Color                  |
|---------------------------|---|--------------------------------|
| OM2                       | 24  | TIA coding (Gxxxxx.T): Natural |
| Fiber Color Coding:       | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua. With Ringmark: BL, OR, GR, BR, GY, WT, RD, BK, YL, VT, PK, AQ |                                |
| Cable Core Water Tight:   | Yes   |                                |
| Cable Core Waterblocking: | Waterblock Tape   |                                |
| Bulk Cable Weight:        | 62 kg/km  |                                |

### SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 1          |
| Number of Subunit Positions: | 1          |
| Fibers Per Subunit:          | 24         |
| Subunit Diameter:            | 3.3 mm     |
| Subunit Waterblocking:       | Gel Filled |

### Jacket Specifications

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

### Outer Jacket Specifications

#### Outer Jacket

| Material  | Nominal Diameter  | Ripcord |
|---|---|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 7.5 mm  | Yes     |
| Table Notes:                                    | Standard color: Black. Available colors: Black, Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, 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  | 148 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 148 mm            | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 6000 N (1349 lbf) | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 2000 N (450 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              |
| 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                        |
| IEC 61034-2 - Smoke Density Min. Transmittance:            | 60%                        |
| CPR Euroclass:   | Eca                        |
| 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: 0.55 Revision Date: 09-17-2024 |
|----------------------|---|

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