



**Product:** [GUSN812](#) 

Universal OFC CLT (jelly filled): GLASS YARNS(1500N) + LSZH with 1 Tube of Ø3.3mm 12f SM OS2 G.652.D & G.657.A1. CPR Dca.

## Product Description

Universal (Indoor/Outdoor) optical fiber Central Loose Tube (jelly filled tube) cable with glass yarns (standard rodent protection) as strength member and Low Smoke Zero Halogen outer jacket. Product feature: This cable has standard rodent protection by glass yarns. Existing out of 1 Tube with a diameter of 3.3mm with 12 fibers SM OS2 G.652.D & G.657.A1. CPR Euroclass Dca.

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Construction Type:     | Central Loose Tube   |
| Environmental Space:   | Indoor/Outdoor - Euroclass Dca   |
| 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.652D & G.657A1       | 12          | TIA coding (Gxxxxx.T): Natural |

|                           |  |
|---------------------------|--|
| Fiber Color Coding:       | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |
| Cable Core Water Tight:   | Yes  |
| Cable Core Waterblocking: | Waterblocking Glass Yarns  |
| Bulk Cable Weight:        | 37 kg/km   |

### SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 1          |
| Number of Subunit Positions: | 1          |
| Fibers Per Subunit:          | 12         |
| Subunit Diameter:            | 3.3 mm     |
| Subunit Waterblocking:       | Gel Filled |

### 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) | 5.8 mm           | No      |

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

|                              |            |
|------------------------------|------------|
| Max. Attenuation at 1310 nm: | 0.39 dB/km |
| Max. Attenuation at 1550 nm: | 0.24 dB/km |
| Max. Attenuation at 1625 nm: | 0.29 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  | 116 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 58 mm             | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 1500 N (337 lbf)  | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 500 N (112 lbf)   | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 15 kN/m           | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 7.5 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:   | Dca-s2,d1,a1  |
| REACH:   | Compliant     |
| ISO/IEC Compliance:  | IEC 60794     |
| EU Directive 2011/65/EU (RoHS 2):                          | Compliant     |
| UV/ Sunlight Protection:                                   | Yes           |

### Related Part Numbers

#### Variants

| Item #         | Color  | Put-Up Type | Length  | EAN           |
|----------------|--------|-------------|---------|---------------|
| GUSN812.022100 | Black  | Reel        | 2,100 m | 8719605083654 |
| GUSN812.T02100 | Black  | Reel        | 2,100 m | 8719605147974 |
| GUSN812.023100 | Black  | Reel        | 3,100 m | 8719605145253 |
| GUSN812.024100 | Black  | Reel        | 4,100 m | 8719605180698 |
| GUSN812.002100 | Orange | Reel        | 2,100 m | 8719605083593 |
| GUSN812.004100 | Orange | Reel        | 4,100 m | 8719605083609 |
| GUSN812.006100 | Orange | Reel        | 6,100 m | 8719605083616 |
| GUSN812.012100 | Yellow | Reel        | 2,100 m | 8719605083623 |
| GUSN812.T42100 | Yellow | Reel        | 2,100 m | 8719605173812 |
| GUSN812.014100 | Yellow | Reel        | 4,100 m | 8719605083630 |
| GUSN812.016100 | Yellow | Reel        | 6,100 m | 8719605083647 |

### History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.114 Revision Date: 12-14-2023 |
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