



**Product:** [GUSMCF12](#)

Universal OFC CLT (gel-free tube): GLASS YARNS(1500N) + LSZH with 1 gel-free Tube of Ø3.3mm 12f SM OS2 G.657.A2. CPR Cca.

Product Description

Universal (Indoor/Outdoor) optical fiber Central Loose Tube (gel-free 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 gel-free Tube with a diameter of 3.3mm with 12 fibers SM OS2 G.657.A2. CPR Euroclass Cca.

Technical Specifications

Product Overview

|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Central Loose Tube                                                                                                                                                                                                                                                                                           |
| 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.657A2                | 12                                                                                                      | TIA coding (Gxxxxxx.T): Natural |
| Fiber Color Code:          |                        | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |                                 |
| Cable Core Water Tight:    |                        | Yes                                                                                                     |                                 |
| Cable Core Water Blocking: |                        | Waterblocking Glass Yarns                                                                               |                                 |
| Bulk Cable Weight:         |                        | 98 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 Free |

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)                                                                                                                                     | 9.0 mm           | No      |
| Outer Jacket1 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

|                                 |            |
|---------------------------------|------------|
| Maximum Attenuation at 1310 nm: | 0.40 dB/km |
| Maximum Attenuation at 1550 nm: | 0.30 dB/km |
| Maximum 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  | 180 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 90 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 +55 °C |
| Installation Temperature Range: | -5 °C to +50 °C  |
| Storage Temperature Range:      | -30 °C to +55 °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:            | 80%                        |
| CPR Euroclass:                                             | Cca-s1a,d1,a1              |
| 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: 0.7 Revision Date: 08-13-2025 |
|----------------------|------------------------------------------------|

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