



Product: [GUSLF12](#) 

Universal OFC CLT (LU S1085 A4): GLASS YARNS(1500N) + LSZH with 1 Tube of Ø3.3mm (OD 6.5mm) 12f SM OS2 G.657.A2. CPR Dca.

Product Description

Universal (Indoor/Outdoor) optical fiber (London Underground Certified; LU S1085 A4) Central Loose 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 and cable diameter of 6.5mm with 12 fibers SM OS2 G.657.A2. 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. The cable has been designed to meet the requirements of LUL 1-085 standard. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count | Subunit Color |
|------------|------------------------|-------------|--------------------------------|
| OS2 | G.657A2 | 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: | 48 kg/km |

SubUnit Specifications

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|------------------------------|------------|
| 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) | 6.5 mm | No |

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| Table Notes: | Standard color: Orange. Available colors: Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Black, Lime Green |
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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 | 130 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 65 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

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|---------------------------------|-----------------|
| Operating Temperature Range: | -5 °C to +40 °C |
| Installation Temperature Range: | -5 °C to +40 °C |
| Storage Temperature Range: | -5 °C to +40 °C |

Standards

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|--|----------------|
| 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 |
| IEC 61034-2 - Smoke Density Min. Transmittance: | 60% |
| CPR Euroclass: | Dca-s2,d1,a1 |
| REACH: | Compliant |
| ISO/IEC Compliance: | IEC 60794-1-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant |
| Safety Listing: | LUL 1-085 |
| UV/ Sunlight Protection: | Yes |

History

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| Update and Revision: | Revision Number: 0.54 Revision Date: 12-14-2023 |
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