



Product: [GUDN824](#) 

Universal OFC CLT (jelly filled): GLASS YARNS + LSZH + CST + LSZH with 1 Tube of Ø3.3mm 24f 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 as strength member, Low Smoke Zero Halogen inner jacket, Corrugated Steel Tape (Full Rodent Protected) armor and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 1 Tube with a diameter of 3.3mm with 24 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 trenches and/or tubes. Suitable for Direct Burial. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count | Subunit Color |
|---------------------------|---|-------------|--------------------------------|
| OS2 | G.652D & G.657A1 | 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: | Waterblocking Glass Yarns | | |
| Bulk Cable Weight: | 155 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

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|--------------------|-----------------------|
| Number of Jackets: | Double Jacket |
| Type of Armor: | Corrugated Steel Tape |

Inner Jacket

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|-----------|---|
| Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
|-----------|---|

Outer Jacket Specifications

Outer Jacket

| Material | Nominal Diameter | Ripcord |
|---|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 11 mm | No |

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

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|------------------------------|------------|
| 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 | 220 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 220 mm | IEC 60794-3-10 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 2400 N (540 lbf) | IEC 60794-3-10 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 800 N (180 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

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

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| 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-s1,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 |
|----------------|-------|-------------|---------|---------------|
| GUDN824.002100 | Black | Reel | 2,100 m | 8719605080448 |
| GUDN824.004100 | Black | Reel | 4,100 m | 8719605175564 |

History

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| Update and Revision: | Revision Number: 0.121 Revision Date: 12-14-2023 |
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