



Product: [GCCII96](#) 

Universal OFC MLT: GLASS YARNS + CST + LSZH with 8 Tubes of Ø1.9mm
96f SM OS2 G.657.B3.

Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, 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 8 tubes with a diameter of 1.9mm with 96 fibers (8t x 12f) SM OS2 G.657.B3.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Construction Type: | Multi Loose Tube |
| Environmental Space: | Indoor/Outdoor |
| 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. |

Material

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count | Subunit Color |
|-------------------------------|---|-------------|---|
| OS2 | G.657B3 | 96 | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black |
| Fiber Color Code: | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua | | |
| Central Strength Member Type: | GRP | | |
| Cable Core Water Tight: | Yes | | |
| Cable Core Water Blocking: | Waterblocking Glass Yarns + Tape | | |
| Bulk Cable Weight: | 215 kg/km | | |

SubUnit Specifications

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|------------------------------|------------|
| Number of Active Subunits: | 8 |
| Number of Subunit Positions: | 8 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 1.9 mm |
| Subunit Waterblocking: | Gel Filled |

Jacket Specifications

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

Outer Jacket Specifications

Outer Jacket

| Material | Nominal Diameter | Ripcord |
|---|---|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 13.5 mm | Yes |
| Outer Jacket1 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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|---------------------------------|------------|
| 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 | 270 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 270 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

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|---------------------------------|------------------|
| 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 |
| Reaction to Fire - Bundle Flame Test: | IEC 60332-3-22 |
| 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 |
| REACH: | Compliant |
| ISO/IEC Compliance: | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant |
| UV/ Sunlight Protection: | Yes |

History

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| Update and Revision: | Revision Number: 0.46 Revision Date: 09-17-2024 |
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