



Product: GRRII96 ☑

Universal OFC MLT: LSZH + GLASS YARNS + 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 Low Smoke Zero Halogen inner jacket, glass yarns as strength member and Low Smoke Zero Halogen outer jacket. Product feature: This cable has rodent protection by glass yarns. 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/or tubes. | | | |

Construction

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 Coding: TIA coding (Gxxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua | | | | | |
| Central Stre | ngth Member: | GRP | GRP | | |
| Cable Core | Water Tight: | Yes | es | | |
| Cable Core Waterblocking: Waterblocking Glass Yarns + Tape | | | | | |
| Bulk Cable Weight: 174 kg/km | | | | | |

SubUnit Specifications

| 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: | Double Jacket |
|--------------------|----------------|
| Type of Armor: | All Dielectric |

Inner Jacket

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

Outer Jacket Specifications

Outer Jacket

| | Material | | Nominal Diameter | Ripcord |
|---|--------------------------------------|--------------|------------------------|-----------|
| ľ | LSZH - Low Smoke Zero Halogen (Flame | e Retardant) | 13.2 mm | Yes |
| Ï | Table Notes: | Standard co | olor: Orange. Availabl | e colors: |

Optical Characteristics

| 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 | 264 mm | IEC 60794-3-10 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 264 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 | 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 |
| Cable Impact Resistance | IEC 60794-1-21-E4 | 10 J, 300 mm Radius, 3 Cycles | IEC 60794-3-10 |
| Cable Torsion Resistance | IEC 60794-1-21-E7 | 180°, 2 m, 10 cycles | 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 | | |
|---|----------------------------|--|--|
| Reaction to Fire - Bundle Flame Test: | IEC 60332-3-24 | | |
| 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

| | B 11 N 4 005B 11 B 1004B |
|----------------------|---|
| Update and Revision: | Revision Number: 0.35 Revision Date: 09-17-2024 |
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