



Product: [GUXTBF12](#)

Universal tight buffered OFC: GLASS YARNS (impr. rodent protection) LSZH jacket 12f SM OS2 G.657.A2. CPR B2ca.

Product Description

Universal (Indoor/Outdoor) tight buffered optical fiber cable with glass yarns as strength member and improved rodent protection with Low Smoke Zero Halogen outer jacket. 12 fibers SM OS2 G.657.A2. CPR Euroclass B2ca.

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Construction Type: | Distribution |
| Environmental Space: | Indoor/Outdoor - Euroclass B2ca |
| 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. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Not suitable for blown installation. |

Construction

Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2 | G.657A2 | 12 |

Fiber Color Coding: TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua

Buffer Specification

| Fiber Type | Buffer Construction | Buffer Material | Buffer Diameter |
|------------|---------------------|---|-----------------|
| OS2 | Tight | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.9 mm |

Cable Core Water Tight: Yes

Cable Core Waterblocking: Waterblocking Glass Yarns

Bulk Cable Weight: 76 kg/km

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) | 9.4 mm | No |

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

| | |
|------------------------------|------------|
| 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 | 188 mm | IEC 60794-2-20 |
| Cable Min. Bend Radius Operation (Long Term) | IEC 60794-1-21-E11 | 94 mm | IEC 60794-2-20 |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1 | 2200 N (495 lbf) | IEC 60794-2-20 |
| Cable Max. Tensile Strength Operation (Long Term) | IEC 60794-1-21-E1 | 730 N (164 lbf) | |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3 | 5 kN/m | IEC 60794-2-20 |
| Cable Max. Crush Resistance Operation (Long Term) | IEC 60794-1-21-E3 | 3 kN/m | IEC 60794-2-20 |

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 |
| 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 |
| IEC 61034-2 - Smoke Density Min. Transmittance: | 60% |
| CPR Euroclass: | B2ca-s1,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

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|----------------------|---|
| Update and Revision: | Revision Number: 0.47 Revision Date: 09-17-2024 |
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