



**Product:** [GIBTF24](#)

Indoor tight buffered breakout cable LSZH jacket 24f SM OS2 G.657.A2.

### Product Description

Indoor tight buffered breakout cable with Low Smoke Zero Halogen outer jacket. 24 fibers SM OS2 G.657.A2.

### Technical Specifications

#### Product Overview

|                        |                                                                                                                                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Breakout                                                                                                                                                                                                                                                 |
| Environmental Space:   | Indoor (Not Riser or Plenum)                                                                                                                                                                                                                             |
| Suitable Applications: | For indoor use in structured (premises) wiring systems: building backbone (riser) and/or horizontal cabling (Fibre To The Desk). Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Easy to install in ducts and tunnels. |

#### Construction

##### Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2        | G.657A2                | 24          |

|                     |                              |
|---------------------|------------------------------|
| Fiber Color Coding: | TIA coding (Gxxxxxx.T): Blue |
|---------------------|------------------------------|

##### 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: | No        |
| Bulk Cable Weight:      | 162 kg/km |

#### SubUnit Specifications

|                              |                            |
|------------------------------|----------------------------|
| Number of Active Subunits:   | 24                         |
| Number of Subunit Positions: | 0                          |
| Fibers Per Subunit:          | 1                          |
| Subunit Diameter:            | 2.1 mm                     |
| Subunit Waterblocking:       | Waterblocking Aramid Yarns |

#### 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) | 14.3 mm          | Yes     |

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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  | 286 mm            | IEC 60794-2-20                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 143 mm            | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 1750 N (393 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:    | -5 °C to +55 °C |
| Installation Temperature Range: | -5 °C to +50 °C |
| Storage Temperature Range:      | -5 °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%                        |
| REACH:                                                     | Compliant                  |
| ISO/IEC Compliance:                                        | IEC 60794, ISO/IEC 11801-1 |
| EU Directive 2011/65/EU (RoHS 2):                          | Compliant                  |
| UV/ Sunlight Protection:                                   | Yes                        |

### History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.81 Revision Date: 09-17-2024 |
|----------------------|-------------------------------------------------|

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