



**Product:** [GUBTA04](#)

Universal tight buffered breakout cable LSZH jacket 4f SM OS2 G.657.A1.

**Product Description**

Universal (Indoor/Outdoor) tight buffered breakout cable with Low Smoke Zero Halogen outer jacket. 4 fibers SM OS2 G.657.A1.

**Technical Specifications**

**Product Overview**

|                        |  |
|------------------------|--|
| Construction Type:     | Breakout   |
| 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. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. |

**Construction**

**Fiber Cable Construction**

| Fiber Type            | Fiber Grade acc. ITU-T          | Fiber Count | Subunit Color                                     | Subunit Color 2                  |
|-----------------------|---------------------------------|-------------|---|----------------------------------|
| OS2                   | G.657A1                         | 4           | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown | Europe coding (Gxxxxx.O): Orange |
| Fiber Color Coding:   | TIA coding (Gxxxxx.T): Blue     |             |   |                                  |
| Fiber Color Coding 2: | Europe coding (Gxxxxx.O): Green |             |   |                                  |

**Buffer Specification**

| Fiber Type                 | Buffer Construction        | Buffer Material                                 | Buffer Diameter |
|----------------------------|----------------------------|---|-----------------|
| OS2                        | Tight                      | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.9 mm          |
| Central Strength Member:   | GRP                        |   |                 |
| Cable Core Water Tight:    | Yes                        |   |                 |
| Cable Core Water Blocking: | Waterblocking Aramid Yarns |   |                 |
| Bulk Cable Weight:         | 40 kg/km                   |   |                 |

**SubUnit Specifications**

|                              |                            |
|------------------------------|----------------------------|
| Number of Active Subunits:   | 4                          |
| Number of Subunit Positions: | 4                          |
| 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) | 7.2 mm           | 1       |

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

|                              |            |
|------------------------------|------------|
| Fiber Core Diameter:         | 9 µm       |
| 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  | 144 mm            | IEC 60794-2-20                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 72 mm             | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Installation (Short Term) |                    | 420 N (94 lbf)    | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  |                   |                                   |
| 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 Temp Range:    | -30 °C to +70 °C |
| Installation Temp Range: | -5 °C to +50 °C  |
| Storage Temp Range:      | -30 °C to +70 °C |

## Standards

|  |               |
|--|---------------|
| 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%           |
| REACH:   | Compliant     |
| ISO/IEC Compliance:  | IEC 60794     |
| EU Directive 2011/65/EU (RoHS 2):                          | Compliant     |
| UV/ Sunlight Protection:                                   | Yes           |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.27 Revision Date: 04-08-2022 |
|----------------------|---|

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