



**Product:** [GUMVA02](#) 

Universal tight buffered fiber + SWB distribution cable LSZH jacket 2f SM OS2 G.652.D & G.657.A1.

## Product Description

Universal (Indoor/Outdoor) tight buffered fiber with Steel Wire Braid optical fiber distribution cable with Low Smoke Zero Halogen outer jacket. 2 fibers SM OS2 G.652.D & G.657.A1.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Distribution                                                                                                                                                                                                                                                                                                                                                                        |
| 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. Not suitable for blown installation. |

### Construction

#### Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2        | G.652D & G.657A1       | 2           |

|                     |                                     |
|---------------------|-------------------------------------|
| Fiber Color Coding: | TIA coding (Gxxxxx.T): Blue, Orange |
|---------------------|-------------------------------------|

#### 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:        | 106 kg/km                 |

### Jacket Specifications

|                    |                  |
|--------------------|------------------|
| Number of Jackets: | Double Jacket    |
| Type of Armor:     | Steel Wire Braid |

### Inner Jacket

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

### Outer Jacket Specifications

#### Outer Jacket

| Material                                        | Nominal Diameter | Ripcord |
|-------------------------------------------------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 9.5 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  | 190 mm            | IEC 60794-2-20                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 142.5 mm          | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 1080 N (243 lbf)  | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 360 N (81 lbf)    |                                   |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 22 kN/m           | IEC 60794-2-20                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 11 kN/m           | IEC 60794-2-20                    |

### 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               |
| 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                        |
| IEC 61034-2 - Smoke Density Min. Transmittance:            | 80%                        |
| 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: 0.49 Revision Date: 09-17-2024 |
|----------------------|-------------------------------------------------|

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