



**Product:** [GCAI296](#) 

Universal OFC MLT: ARAMID + LSZH with 8 Tubes of Ø1.9mm 96f MM OM2.

## Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member and Low Smoke Zero Halogen outer jacket. Existing out of 8 tubes with a diameter of 1.9mm with 96 fibers MM OM2.

## 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 Count | Subunit Color  |
|------------|-------------|--|
| OM2        | 96          | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black |

|                            |  |
|----------------------------|--|
| Fiber Color Coding:        | TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |
| Central Strength Member:   | GRP  |
| Cable Core Water Tight:    | Yes  |
| Cable Core Water Blocking: | Waterblocking Aramid Yarns + Tape  |
| Bulk Cable Weight:         | 113 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: | Single Jacket |
| Type of Armor:     | Non-Armored   |

### Outer Jacket Specifications

#### Outer Jacket

| Material  | Nominal Diameter | Ripcord |
|---|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 10.5 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:         | 50 µm     |
| Max. Attenuation at 1300 nm: | 1.0 dB/km |
| Max. Attenuation at 850 nm:  | 2.9 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  | 210 mm                        | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 158 mm                        | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 2700 N (607 lbf)              | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 900 N (202 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 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  |
| 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      |
| EU Directive 2011/65/EU (RoHS 2):                          | Compliant      |
| UV/ Sunlight Protection:                                   | Yes            |

### History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.51 Revision Date: 12-15-2021 |
|----------------------|---|

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