



**Product:** [GCCH236](#) 

Universal OFC MLT: GLASS YARNS + CST + LSZH with 6 Tubes of Ø1.9mm 36f MM OM2.

## Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, Corrugated Steel Tape armor and Low Smoke Zero Halogen outer jacket. Existing out of 6 tubes with a diameter of 1.9mm with 36 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 trenches and/or tubes. Suitable for Direct Burial. |

### Construction

#### Fiber Cable Construction

| Fiber Type | Fiber Count | Subunit Color                              |
|------------|-------------|--------------------------------------------|
| OM2        | 36          | TIA coding (Gxxxxx.T): Blue, Orange, Green |

|                            |                                                                                                        |
|----------------------------|--------------------------------------------------------------------------------------------------------|
| 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 Glass Yarns + Tape                                                                       |
| Bulk Cable Weight:         | 156 kg/km                                                                                              |

### SubUnit Specifications

|                              |            |
|------------------------------|------------|
| Number of Active Subunits:   | 3          |
| Number of Subunit Positions: | 6          |
| Fibers Per Subunit:          | 12         |
| Subunit Diameter:            | 1.9 mm     |
| Subunit Waterblocking:       | Gel Filled |

### Jacket Specifications

|                    |                       |
|--------------------|-----------------------|
| Number of Jackets: | Single Jacket         |
| Type of Armor:     | Corrugated Steel Tape |

### Outer Jacket Specifications

#### Outer Jacket

| Material                                        | Nominal Diameter | Ripcord |
|-------------------------------------------------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 11.1 mm          | 1       |

|              |                                                                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table Notes: | Standard color: Black. Available colors: Black, Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, 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  | 222 mm            | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 222 mm            | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 3900 N (877 lbf)  | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 1300 N (292 lbf)  | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 22 kN/m           | IEC 60794-3-10                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 11 kN/m           | 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 60332-3-22    |
| Resistance to Fire - Circuit Integrity:                    | IEC 60331-25-E120 |
| 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: 0.62 Revision Date: 12-15-2021 |
|----------------------|-------------------------------------------------|

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