



**Product:** [GCROC848](#) 

Universal OFC MLT: GLASS YARNS + LSZH (HIGH TEMP) with 6 gel-free tubes of Ø1.9mm 48f SM OS2 G.652.D & G.657.A1. CPR Cca.

## Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with glass yarns as strength member and Low Smoke Zero Halogen outer jacket. Product feature: This cable has rodent protection by glass yarns. Existing out of 6 gel-free tubes with a diameter of 1.9mm with 48 fibers (4t x 12f) SM OS2 G.652.D & G.657.A1. CPR Euroclass Cca.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Multi Loose Tube                                                                                                                                                                                                                                                                                             |
| Environmental Space:   | Indoor/Outdoor - Euroclass Cca                                                                                                                                                                                                                                                                               |
| 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 Grade acc. ITU-T                                                                                  | Fiber Count | Subunit Color                                      |
|---------------------------|---------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------|
| OS2                       | G.652D & G.657A1                                                                                        | 48          | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown |
| Fiber Color Coding:       | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua |             |                                                    |
| Central Strength Member:  | GRP                                                                                                     |             |                                                    |
| Cable Core Water Tight:   | Yes                                                                                                     |             |                                                    |
| Cable Core Waterblocking: | Waterblocking Glass Yarns + Tape                                                                        |             |                                                    |
| Bulk Cable Weight:        | 102 kg/km                                                                                               |             |                                                    |

### SubUnit Specifications

|                              |          |
|------------------------------|----------|
| Number of Active Subunits:   | 4        |
| Number of Subunit Positions: | 6        |
| Fibers Per Subunit:          | 12       |
| Subunit Diameter:            | 1.9 mm   |
| Subunit Waterblocking:       | Gel Free |

### Jacket Specifications

|                    |               |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
| Type of Armor:     | Non-Armored   |

### Outer Jacket Specifications

#### Outer Jacket

| Material                                        | Color                                                                                                                                                    | Nominal Diameter | Ripcord |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | Black                                                                                                                                                    | 11.0 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: | 0.39 dB/km |
| Max. Attenuation at 1550 nm: | 0.24 dB/km |

|                              |            |
|------------------------------|------------|
| Max. Attenuation at 1625 nm: | 0.29 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  | 240 mm                        | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 180 mm                        | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 6000 N (1349 lbf)             | IEC 60794-3-10                    |
| Cable Max. Tensile Strength Operation (Long Term)     | IEC 60794-1-21-E1  | 2000 N (450 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 Temperature Range:    | -30 °C to +55 °C |
| Installation Temperature Range: | -5 °C to +50 °C  |
| Storage Temperature Range:      | -30 °C to +55 °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%                        |
| CPR Euroclass:                                             | Cca-s1a,d1,a1              |
| 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: 0.13 Revision Date: 08-12-2025 |
|----------------------|-------------------------------------------------|

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