



**Product:** [GBCO816](#)

Outdoor OFC MLT: GLASS YARNS + CST + PE with 6 gel-free tubes of Ø1.9mm 16f SM OS2 G.652.D & G.657.A1.

## Product Description

Outdoor dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, Corrugated Steel Tape (Full Rodent Protected) armor and polyethylene outer jacket. Product feature: This cable has improved rodent protection by Corrugated Steel Tape (Full Rodent Protected). Existing out of 6 gel-free tubes with a diameter of 1.9mm with 16 fibers (2t x 8f) SM OS2 G.652.D & G.657.A1.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Multi Loose Tube                                                                                                                                                                                                                                                                                                                |
| Environmental Space:   | Outdoor                                                                                                                                                                                                                                                                                                                         |
| Suitable Applications: | For outdoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor 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 Grade acc. ITU-T | Fiber Count | Subunit Color                        |
|------------|------------------------|-------------|--------------------------------------|
| OS2        | G.652D & G.657A1       | 16          | TIA coding (Gxxxxxx.T): Blue, Orange |

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Fiber Color Coding:       | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black |
| Central Strength Member:  | GRP                                                                         |
| Cable Core Water Tight:   | Yes                                                                         |
| Cable Core Waterblocking: | Waterblocking Glass Yarns + Tape                                            |
| Bulk Cable Weight:        | 134 kg/km                                                                   |

### SubUnit Specifications

|                              |          |
|------------------------------|----------|
| Number of Active Subunits:   | 2        |
| Number of Subunit Positions: | 6        |
| Fibers Per Subunit:          | 8        |
| Subunit Diameter:            | 1.9 mm   |
| Subunit Waterblocking:       | Gel Free |

### Jacket Specifications

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

### Outer Jacket Specifications

#### Outer Jacket

| Material          | Color | Nominal Diameter | Ripcord |
|-------------------|-------|------------------|---------|
| PE - Polyethylene | Black | 11.1 mm          | Yes     |

### 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  | 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 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               |
| 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: 0.7 Revision Date: 08-06-2025 |
|----------------------|------------------------------------------------|

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