



**Product:** [GCWQB856](#)

Universal OFC MLT: ARAMID + LSZH + SWA + LSZH with 8 gel-free tubes of Ø1.9mm 56f SM OS2 G.652.D & G.657.A1. CPR B2ca.

### Product Description

Universal (Indoor/Outdoor) dry core optical fiber Multi Loose Tube cable with aramid yarns as strength member, Low Smoke Zero Halogen inner jacket, Steel Wire Armouring (Full Rodent Protected) armor and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Steel Wire Armouring (Full Rodent Protected). Existing out of 8 gel-free tubes with a diameter of 1.9mm with 56 fibers (7t x 8f) SM OS2 G.652.D & G.657.A1. CPR Euroclass B2ca.

### Technical Specifications

#### Product Overview

|                        |                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Construction Type:     | Multi Loose Tube                                                                                                                                                                                                                                                                                                                                      |
| Environmental Space:   | Indoor/Outdoor - Euroclass B2ca                                                                                                                                                                                                                                                                                                                       |
| 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 Grade acc. ITU-T | Fiber Count                                                                 | Subunit Color                                                        |
|-------------------------------|------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------|
| OS2                           | G.652D & G.657A1       | 56                                                                          | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red |
| Fiber Color Code:             |                        | TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black |                                                                      |
| Central Strength Member Type: |                        | GRP                                                                         |                                                                      |
| Cable Core Water Tight:       |                        | Yes                                                                         |                                                                      |
| Cable Core Water Blocking:    |                        | Waterblocking Glass Yarns + Tape                                            |                                                                      |
| Bulk Cable Weight:            |                        | 400 kg/km                                                                   |                                                                      |

#### SubUnit Specifications

|                              |          |
|------------------------------|----------|
| Number of Active Subunits:   | 7        |
| Number of Subunit Positions: | 8        |
| Fibers Per Subunit:          | 8        |
| Subunit Diameter:            | 1.9 mm   |
| Subunit Waterblocking:       | Gel Free |

#### Jacket Specifications

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

#### Inner Jacket

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

#### Outer Jacket Specifications

##### Outer Jacket

| Material                                        | Color | Nominal Diameter | Ripcord |
|-------------------------------------------------|-------|------------------|---------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | Black | 14.7 mm          | Yes     |

|                            |                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer Jacket1 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

|                                 |            |
|---------------------------------|------------|
| Maximum Attenuation at 1310 nm: | 0.39 dB/km |
| Maximum Attenuation at 1550 nm: | 0.24 dB/km |
| Maximum 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  | 294 mm                        | IEC 60794-3-10                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 294 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  | 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                    |
| 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 +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 60332-3-24             |
| 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                        |
| CPR Euroclass:                                             | B2ca-s1,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: 0.6 Revision Date: 11-21-2025 |
|----------------------|------------------------------------------------|

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