



**Product:** [GWRTF08](#) 

Outdoor Wind Tower tight buffered OFC: GLASS YARNS (impr. rodent protection) PE jacket 8f SM OS2 G.657.A2.

## Product Description

Outdoor Wind Tower tight buffered optical fiber cable with glass yarns as strength member and improved rodent protection with Polyethylene outer jacket. 8 fibers SM OS2 G.657.A2.

## Technical Specifications

### Product Overview

|                        |   |
|------------------------|---|
| Construction Type:     | Distribution  |
| 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. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Not suitable for blown installation. |

### Construction

#### Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2        | G.657A2                | 8           |

Fiber Color Coding: TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black

#### Buffer Specification

| Fiber Type | Buffer Construction | Buffer Material                                 | Buffer Diameter |
|------------|---------------------|---|-----------------|
| OS2        | Tight               | LSZH - Low Smoke Zero Halogen (Flame Retardant) | 0.9 mm          |

Cable Core Water Tight: Yes

Cable Core Waterblocking: Waterblocking Aramid Yarns + Glass Yarns

Bulk Cable Weight: 99 kg/km

### Jacket Specifications

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

### Inner Jacket

|           |                    |
|-----------|--------------------|
| Color:    | Black              |
| Material: | PUR - Polyurethane |

### Outer Jacket Specifications

#### Outer Jacket

| Material           | Color | Nominal Diameter | Ripcord |
|--------------------|-------|------------------|---------|
| PUR - Polyurethane | Black | 10.0 mm          | Yes     |

Table Notes: Standard color: Black. 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: | 0.40 dB/km |
| Max. Attenuation at 1550 nm: | 0.30 dB/km |
| Max. Attenuation at 1625 nm: | 0.30 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  | 80.0 mm                 | IEC 60794-2-20                    |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 40.0 mm                 | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 990 N (223 lbf)         | IEC 60794-2-20                    |
| Cable Max. Crush Resistance Installation (Short Term) | IEC 60794-1-21-E3  | 5 kN/m                  | IEC 60794-2-20                    |
| Cable Max. Crush Resistance Operation (Long Term)     | IEC 60794-1-21-E3  | 3 kN/m                  | IEC 60794-2-20                    |
| Cable Torsion Resistance                              | IEC 60794-1-21-E7  | 130°, 1 m, 20000 cycles | IEC 60794-2-20                    |

### 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                        |
| 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: 0.12 Revision Date: 09-17-2024 |
|----------------------|---|

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