



**Product:** [GMRTA16](#)

Outdoor Tactical tight buffered OFC: GLASS YARNS (impr. rodent protection)  
PUR jacket 16f SM OS2 G.652.D & G.657.A1.

## Product Description

Outdoor Tactical tight buffered optical fiber cable with glass yarns as strength member and improved rodent protection with Polyurethane (PUR) outer jacket. 16 fibers SM OS2 G.652.D & G.657.A1.

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Construction Type:     | Tactical   |
| Environmental Space:   | Indoor/Outdoor   |
| Suitable Applications: | For outdoor and indoor use. These metal-free tactical cables have been designed for de-spooling and re-spooling repeatedly. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM Easy to install. Not Recommended for direct burial. Core bonded Polyurethane inner and outer jacket providing simple installation. Glass-rovings between inner and outer jacket for improved mechanical strength. |

### Construction

#### Fiber Cable Construction

| Fiber Type | Fiber Grade acc. ITU-T | Fiber Count |
|------------|------------------------|-------------|
| OS2        | G.652D & G.657A1       | 16          |

Fiber Color Coding: TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua. With Ringmark: BL, OR, GR, BR

#### Buffer Specification

| Fiber Type | Buffer Construction | Buffer Material | Buffer Diameter |
|------------|---------------------|-----------------|-----------------|
| OS2        | Tight               | Nylon           | 0.9 mm          |

|                           |  |
|---------------------------|--|
| Cable Core Water Tight:   | Yes                                      |
| Cable Core Waterblocking: | Waterblocking Aramid Yarns + Glass Yarns |
| Bulk Cable Weight:        | 126 kg/km                                |

### Jacket Specifications

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

### Inner Jacket

|           |                    |
|-----------|--------------------|
| Material: | PUR - Polyurethane |
|-----------|--------------------|

### Outer Jacket Specifications

#### Outer Jacket

| Material           | Color | Nominal Diameter | Ripcord |
|--------------------|-------|------------------|---------|
| PUR - Polyurethane | Black | 11.1 mm          | No      |

### 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  | 88.8 mm           |                                   |
| Cable Min. Bend Radius Operation (Long Term)          | IEC 60794-1-21-E11 | 44.4 mm           |                                   |
| Cable Max. Tensile Strength Installation (Short Term) | IEC 60794-1-21-E1  | 3300 N (742 lbf)  | IEC 60794-2-20                    |
| Cable Max. Tensile Strength Operation (Long Term)     |                    | 1000 N (225 lbf)  |                                   |
| 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                    |

### Temperature Range

|                                 |                  |
|---------------------------------|------------------|
| Operating Temperature Range:    | -70 °C to +85 °C |
| Installation Temperature Range: | -5 °C to +50 °C  |
| Storage Temperature Range:      | -70 °C to +85 °C |

### Standards

|                                   |               |
|-----------------------------------|---------------|
| UL Rating/Flame Test:             | Non-UL Rated  |
| REACH:                            | Compliant     |
| ISO/IEC Compliance:               | IEC 60794-1-1 |
| EU Directive 2011/65/EU (RoHS 2): | Compliant     |
| UV/ Sunlight Protection:          | Yes           |

### History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.53 Revision Date: 06-04-2024 |
|----------------------|---|

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