



**Product:** [FS3H0486G](#)

## Outdoor Heavy Duty Loose Tube OM3 48 Fibers

### Product Description

FX Outdoor Heavy Duty Loose Tube OM3 48 Fibers OSP Corrugated Steel Tape Armor Sub-Units (12F) Gel Black

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Outdoor, Campus Area Network, Backbone |
|------------------------|--|

#### Fiber Specifications

|                      |                |
|----------------------|----------------|
| Fiber Type:          | OM3            |
| Fiber Core Diameter: | 50/125 $\mu$ m |
| Fiber Diameter:      | 250 $\mu$ m    |
| Fiber Count:         | 48             |
| Fiber Color Coding:  | TIA-598-D      |

#### Cable Construction

|                            |                   |
|----------------------------|-------------------|
| Number of Active Subunits: | 4                 |
| Number of Fillers:         | 1                 |
| Fibers Per Subunit:        | 12                |
| Subunit Waterblocking:     | Gel Filled        |
| Subunit Diameter:          | 0.098 in (2.5 mm) |
| Central Strength Member:   | GRP               |
| Core Wrap:                 | Nomex tape        |
| Cable Core Waterblocking:  | Waterblock Tape   |

#### Inner Jacket Specifications

|                     |                          |
|---------------------|--------------------------|
| Strength Member:    | Aramid Yarns             |
| Material:           | PVC - Polyvinyl Chloride |
| Nom. Diameter:      | 0.370 in (9.4 mm)        |
| Color:              | Black                    |
| Number of Ripcords: | 2                        |

#### Armor Specifications

|                          |                             |
|--------------------------|-----------------------------|
| Armor Type and Material: | CST - Corrugated Steel Tape |
|--------------------------|-----------------------------|

#### Outer Jacket Specifications

|                     |                          |
|---------------------|--------------------------|
| Jacket Material:    | PVC - Polyvinyl Chloride |
| Nom. Diameter:      | 0.610 in (15.5 mm)       |
| Color:              | Black                    |
| Number of Ripcords: | 2                        |

#### Optical Characteristics

| Wavelength | 850 nm | 1300 nm |
|------------|--------|---------|
|------------|--------|---------|

|  |             |            |
|--|-------------|------------|
| Max. Attenuation                       | 3.0 dB/km   | 1.0 dB/km  |
| 1 Gigabit Ethernet Performance         | 1,000 m     | 550 m      |
| 10 Gigabit Ethernet Performance        | 300 m       | -          |
| Min. Effective Modal Bandwidth (EMB)   | 2000 MHz.km | -          |
| Min. Overfilled Launch (OFL) Bandwidth | 1500 MHz.km | 500 MHz.km |

## Mechanical Characteristics

|  |                  |
|--|------------------|
| Min. Bend Radius During Installation:      | 20x Cable OD     |
| Min. Bend Radius During Operation:         | 10x Cable OD     |
| Max. Tensile Strength During Installation: | 2670 N (600 lbf) |
| Max. Tensile Strength During Operation:    | 800 N (180 lbf)  |
| Crush Resistance:                          | 440 N/cm         |
| Bulk Cable Weight:                         | 120              |

## Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -30°C to +60°C |
| Operating Temperature Range:    | -40°C to +70°C |
| Storage Temperature Range:      | -40°C to +70°C |

## Standards and Compliance

|                            |                    |
|----------------------------|--------------------|
| Environmental Suitability: | Outdoor            |
| Sustainability:            | CA Prop 65         |
| ICEA Compliance:           | S-87-640           |
| TIA/EIA Compliance:        | ANSI/ICEA S-87-640 |

## History

|                      |  |
|----------------------|--|
| Update and Revision: | Revision Number: 0.105 Revision Date: 10-15-2024 |
|----------------------|--|

## Part Numbers

### Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FS3H0486G | Black | Reel       | 612825371878 |

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