



**Product:** [FS1H012NG](#)

Outdoor Heavy Duty Loose Tube OM1 12 Fibers

### Product Description

FX Outdoor Heavy Duty Loose Tube OM1 12 Fibers OSP Sub-Units (12F) Gel Black

### Technical Specifications

#### Product Overview

|                        |  |
|------------------------|--|
| Suitable Applications: | Campus Area Network, Long Haul, Backbone |
|------------------------|--|

#### Fiber Specifications

|                      |                  |
|----------------------|------------------|
| Fiber Type:          | OM1              |
| Fiber Core Diameter: | 62.5/125 $\mu$ m |
| Fiber Diameter:      | 250 $\mu$ m      |
| Fiber Count:         | 12               |
| Fiber Color Coding:  | TIA-598-D        |

#### Cable Construction

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

#### Inner Jacket Specifications

|                     |                            |
|---------------------|----------------------------|
| Strength Member:    | Waterblocking Aramid Yarns |
| Material:           | PE - Polyethylene          |
| Color:              | Black                      |
| Number of Ripcords: | 1                          |

#### Outer Jacket Specifications

|                     |                            |
|---------------------|----------------------------|
| Strength Member:    | Waterblocking Aramid Yarns |
| Jacket Material:    | PE - Polyethylene          |
| Nom. Diameter:      | 0.505 in (12.8 mm)         |
| Color:              | Black                      |
| Number of Ripcords: | 1                          |

#### Optical Characteristics

| Wavelength                      | 850 nm     | 1300 nm   |
|---------------------------------|------------|-----------|
| Max. Attenuation                | 3.25 dB/km | 1.0 dB/km |
| 1 Gigabit Ethernet Performance  | 300 m      | 550 m     |
| 10 Gigabit Ethernet Performance | 33 m       | --        |

|  |            |            |
|--|------------|------------|
| Min. Restricted Mode Launch            | 220 MHz-km | --         |
| Min. Overfilled Launch (OFL) Bandwidth | 200 MHz-km | 500 MHz-km |

## Mechanical Characteristics

|  |                        |
|--|------------------------|
| Min. Bend Radius During Installation:      | 15x 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:                          | 220 N/cm               |
| Bulk Cable Weight:                         | 67 lbs/kft (100 kg/km) |

## Temperature Range

|                                 |              |
|---------------------------------|--------------|
| Installation Temperature Range: | -30C to +70C |
| Operating Temperature Range:    | -40C to +70C |
| Storage Temperature Range:      | -40C to +75C |

## Standards and Compliance

|                            |  |
|----------------------------|--|
| Environmental Suitability: | Outdoor, Burial  |
| Sustainability:            | CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available |
| ICEA Compliance:           | S-87-640   |
| TIA/EIA Compliance:        | ANSI/ICEA S-87-640   |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.82 Revision Date: 11-09-2022 |
|----------------------|---|

## Part Numbers

### Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FS1H012NG | Black | Reel       | 612825371359 |

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