



**Product:** [FD1L012LF](#)

Indoor/Outdoor Riser Loose Tube OM1 12 Fibers

### Product Description

FX Indoor/Outdoor Loose Tube OM1 12 Fibers LSZH/OFNR Sub-Units (6F) Gel Black

### Technical Specifications

#### Product Overview

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

#### Fiber Specifications

|                      |             |
|----------------------|-------------|
| Fiber Type:          | OM1         |
| Fiber Core Diameter: | 62.5/125 µm |
| Fiber Diameter:      | 250 µm      |
| Fiber Count:         | 12          |
| Fiber Color Coding:  | TIA-598-D   |

#### Cable Construction

|                            |                            |
|----------------------------|----------------------------|
| Number of Active Subunits: | 2                          |
| Number of Fillers:         | 3                          |
| Fibers Per Subunit:        | 6                          |
| Subunit Waterblocking:     | Gel Filled                 |
| Subunit Diameter:          | 0.110 in (2.8 mm)          |
| Subunit Color:             | TIA-598-D                  |
| Subunit Strength Members:  | Waterblocking aramid yarns |
| Central Strength Member:   | Upjacketed GRP             |
| Core Wrap:                 | Waterblocking tape         |
| Cable Core Waterblocking:  | Waterblock Tape            |

#### Inner Jacket Specifications

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

#### Outer Jacket Specifications

|                     |   |
|---------------------|---|
| Strength Member:    | Waterblocking Aramid Yarns                      |
| Jacket Material:    | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 0.454 in (11.5 mm)                              |
| Color:              | Black   |
| Number of Ripcords: | 2   |

#### 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:                         | 84 lbs/kft (125 kg/km) |

## Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°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:       | Indoor/Outdoor, Sunlight Resistance  |
| Sustainability:                  | CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available |
| Flammability / Reaction to Fire: | OFNR, FT4  |
| ICEA Compliance:                 | S-104-696  |
| TIA/EIA Compliance:              | ANSI/ICEA S-104-696  |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.86 Revision Date: 11-09-2022 |
|----------------------|---|

## Part Numbers

### Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FD1L012LF | Black | Reel       | 612825385257 |

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