



**Product:** [FSSH072NG](#)

Heavy Duty Loose Tube OS2 72F OSP Unitized Gel

**Product Description**

FX Outdoor Heavy Duty Loose Tube OS2 72 Fibers OSP Sub-Units(12F) Gel Black

**Technical Specifications**

**Product Overview**

|                        |   |
|------------------------|---|
| Construction Type:     | Heavy Duty Multi Loose Tube   |
| Print Legend:          | BELDEN 72xOS2 OUTDOOR LOOSE TUBE CABLE FSSH072NG(-PLANT ID) (UL) TYPE OFN C(UL) OFN--ROHS (LOT NUMBER) (MMYYYY DATE CODE) (SEQUENTIAL MATERIAL) |
| Environmental Space:   | Outdoor   |
| Suitable Applications: | Outdoor   |

**Construction**

**Fiber Cable Construction**

| Fiber Type | Fiber Count |
|------------|-------------|
| OS2        | 72          |

|                     |           |
|---------------------|-----------|
| Fiber Color Coding: | TIA-598-D |
|---------------------|-----------|

**Buffer Specification**

| Buffer Material         |
|-------------------------|
| Loose tube - Gel-filled |

|                            |                 |
|----------------------------|-----------------|
| Central Strength Member:   | Upjacketed GRP  |
| Cable Core Water Blocking: | Waterblock Tape |
| Bulk Cable Weight:         | 121 lbs/1000ft  |
| Weight:                    | 121 kg          |

**SubUnit Specifications**

|                              |                   |
|------------------------------|-------------------|
| Number of Active Subunits:   | 6                 |
| Number of Subunit Positions: | 5                 |
| Fibers Per Subunit:          | 12                |
| Subunit Diameter:            | 0.110 in (2.8 mm) |
| Subunit Waterblocking:       | Gel Filled        |

**Jacket Specifications**

|                    |               |
|--------------------|---------------|
| Number of Jackets: | Single Jacket |
|--------------------|---------------|

**Inner Jacket**

|           |                   |
|-----------|-------------------|
| Material: | PE - Polyethylene |
|-----------|-------------------|

**Outer Jacket Specifications**

**Outer Jacket**

| Material      | Nominal Diameter  |
|---------------|-------------------|
| Thermoplastic | 0.52 in (13.2 mm) |

|                     |            |
|---------------------|------------|
| Color:              | Black      |
| Number of Ripcords: | 2          |
| Nom. Diameter:      | .54 (13.7) |

## Optical Characteristics

|                                  |                     |
|----------------------------------|---------------------|
| Fiber Core Diameter:             | 8.2/125µm           |
| Max. Attenuation at 1310 nm:     | 0.40 dB/km          |
| Max. Attenuation at 1550 nm:     | 0.30 dB/km          |
| Wavelength:                      | 1310 nm / 1550 nm   |
| 10 Gigabit Ethernet Performance: | 10,000 m / 40,000 m |
| 1 Gigabit Ethernet Performance:  | 5,000 m / -         |

## Mechanical Characteristics

|                   |     |
|-------------------|-----|
| Crush Resistance: | 220 |
|-------------------|-----|

### Mechanical Tests

| Description   | Requirement/Value |
|---|-------------------|
| Cable Min. Bend Radius Installation (Short Term)      | 20x Cable OD      |
| Cable Min. Bend Radius Operation (Long Term)          | 15x Cable OD      |
| Cable Max. Tensile Strength Installation (Short Term) | 135 N (600 lbf)   |
| Cable Max. Tensile Strength Operation (Long Term)     | 40 N (180 lbf)    |
| Cable Impact Resistance                               | 4.4 N/cm          |

## Temperature Range

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

## Standards

|                       |                    |
|-----------------------|--------------------|
| UL Rating/Flame Test: | OSP                |
| NEC/(UL) Compliance:  | N/A                |
| TIA/EIA Compliance:   | ANSI/ICEA S-87-640 |
| RoHS:                 | Yes                |

## Part Number

### Variants

| Item #    | Color | Put-Up Type | UPC          |
|-----------|-------|-------------|--------------|
| FSSH072NG | Black | Reel        | 612825372721 |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.81 Revision Date: 12-15-2021 |
|----------------------|---|

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