



**Product:** [FSSH096NG](#)

Heavy Duty Loose Tube OS2 96F OSP Unitized Gel

### Product Description

FX Outdoor Heavy Duty Loose Tube OS2 96 Fibers OSP Sub-Units(12F) Gel Black

### Technical Specifications

#### Product Overview

Construction Type:	Heavy Duty Multi Loose Tube
Print Legend:	BELDEN 96xOS2 OUTDOOR LOOSE TUBE CABLE FSSH096NG(-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	96

Fiber Color Coding:	TIA-598-D
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##### Buffer Specification

Buffer Material
Loose tube - Gel-filled

Central Strength Member:	Upjacketed GRP
Cable Core Waterblocking:	Waterblock Tape
Bulk Cable Weight:	159 lbs/1000ft
Weight:	159 kg

#### SubUnit Specifications

Number of Active Subunits:	8
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
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#### Inner Jacket

Material:	PE - Polyethylene
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#### Outer Jacket Specifications

##### Outer Jacket

Material	Nominal Diameter
Thermoplastic	0.58 in (14.7 mm)

Color:	Black
Number of Ripcords:	2
Nom. Diameter:	.62 (15.7)

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

## Standards

UL Rating/Flame Test:	OSP
TIA/EIA Compliance:	ANSI/ICEA S-87-640
RoHS:	Yes

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	UPC
FSSH096NG	Black	Reel	612825372776

## History

Update and Revision:	Revision Number: 0.85 Revision Date: 10-15-2024
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