



**Product:** [FS1H048NG](#)

Outdoor Heavy Duty Loose Tube OM1 48 Fibers

## Product Description

FX Outdoor Heavy Duty Loose Tube OM1 48 Fibers OSP Sub-Units (12F) Gel Black

## Technical Specifications

### Product Overview

Suitable Applications:	Outdoor, Campus Area Network, Backbone
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### Fiber Specifications

Fiber Type:	OM1
Fiber Core Diameter:	62.5/125 $\mu$ 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:	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
ICEA Compliance:	S-87-640
TIA/EIA Compliance:	ANSI/ICEA S-87-640

## History

Update and Revision:	Revision Number: 0.247 Revision Date: 04-01-2024
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## Part Numbers

### Variants

Item #	Color	Putup Type	UPC
FS1H048NG	Black	Reel	612825371397

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