



**Product:** [FDSM096A2Y](#)

Indoor/Outdoor Plenum OS2 Mini-Distribution 96 Fibers Aluminum Interlocked 3mm Sub-Units Yellow Jacket

### Product Description

FX Indoor/Outdoor, OS2, Mini-Distribution, 96 Fibers, OFCP Aluminum Interlocked Armor, 12F/Sub-Units (3.0MM), Yellow Jacket

### Technical Specifications

#### Product Overview

Product Category:	Fiber Mini Distribution Cable
Suitable Applications:	Data Center, RAN, Horizontal Backbone, Premise Backbone, Patching, Trunking

#### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 µm
Fiber Diameter:	250 µm
Fiber Count:	96
Fiber Color Coding:	TIA-598-D

#### Cable Construction

Number of Active Subunits:	8
Fibers Per Subunit:	12
Subunit Diameter:	0.118 in (3.0 mm)
Subunit Color:	Yellow
Subunit Strength Members:	Waterblocking Aramid Yarns
Central Strength Member:	GRP
Cable Core Waterblocking:	Waterblock Tape

#### Inner Jacket Specifications

Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.44 in (11.2 mm)
Color:	Yellow

#### Armor Specifications

Armor Type and Material:	AIA - Aluminum Interlock Armor
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#### Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.731 in (18.5 mm)
Color:	Yellow

#### Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km
Mode Field Diameter	9.2 µm	10.4 µm
1 Gigabit Ethernet Performance	5,000 m	--
10 Gigabit Ethernet Performance	10,000 m	50,000 m

## Mechanical Characteristics

Min. Bend Radius During Installation:	20x Cable OD
Min. Bend Radius During Operation:	15x Cable OD
Max. Tensile Strength During Installation:	1800 N (405 lbf)
Max. Tensile Strength During Operation:	540 N (121 lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	349 lbs/kft (519 kg/km)

## Temperature Range

Installation Temperature Range:	-10°C to +60°C
Operating Temperature Range:	-20°C to +70°C
Storage Temperature Range:	-40°C to +70°C

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance, UV Resistance
Sustainability:	CA Prop 65
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	FT6
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	598-D
Telcordia Compliance:	GR-409
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

## History

Update and Revision:	Revision Number: 0.7 Revision Date: 12-04-2024
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## Part Numbers

### Variants

Item #	Color
FDMS096A2Y	Yellow

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