



**Product:** [FDSD012A9](#)

Indoor/Outdoor Plenum OS2 Distribution 12 Fibers Aluminum Interlocked

### Product Description

FX Indoor/Outdoor, OS2, Distribution Tight Buffer, 12 Fibers, OFCP, Aluminum Interlocked Armor Non-Unitized, Black Jacket

### Technical Specifications

#### Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	Premise Backbone

#### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 µm
Buffer Diameter:	900 µm
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

#### Inner Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.236 in (6 mm)
Color:	Black
Number of Ripcords:	1

#### Armor Specifications

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

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.531 in (13.5 mm)
Color:	Black

#### 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	5000 m	--
10 Gigabit Ethernet Performance	10000 m	50,000 m

#### Mechanical Characteristics

Min. Bend Radius During Installation:	20x Cable OD
Min. Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	660 N (150 lbf)
Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	440 N/cm

Bulk Cable Weight:	108 lbs/kft (161 kg/km)
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## Temperature Range

Installation Temperature Range:	0°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:	NFPA 262
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	FT6
ICEA Compliance:	S-83-596
TIA/EIA Compliance:	598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

## History

Update and Revision:	Revision Number: 0.100 Revision Date: 01-07-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	UPC
FDSD012A9	Black	Reel	612825369141

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