



Product: [FDSM048A2](#) 

Indoor /Outdoor Mini-Distribution OS2 48 Fibers OFCP Aluminum Interlocked Armor Sub-Units 3.0mm (12F)

Product Description

FX Indoor/Outdoor, Mini-Distribution, OS2, 48 Fibers, OFCP Aluminum Interlocked armor, Sub-Units 3.0mm (12F), Black 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, G.657.A1, G.652.D
Fiber Diameter:	250 µm
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	4
Fibers Per Subunit:	12
Subunit Diameter:	0.118 in (3.0 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Aramid Yarns
Central Strength Member Type:	GRP
Core Wrap Material:	Water Block Tape

Inner Jacket Specifications

Inner Jacket Strength Member:	Aramid Yarns
Material:	PVC - Polyvinyl Chloride
Nominal Diameter@InnerJacket1 (cnv):	0.421 in (10.7 mm)
Color:	Black
Number of Inner Jacket 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:	0.715 in (18.2 mm)
Outer Jacket Color:	Black

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km
10 Gigabit Ethernet Performance	10,000 m	50,000 m
40 Gigabit Ethernet Performance	10,000 m	--

100 Gigabit Ethernet Performance	10,000 m	--
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Mechanical Characteristics

Minimum Bend Radius During Installation:	20 x Cable OD
Minimum Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	1800 N (405 lbf)
Max. Tensile Strength During Operation:	540 N (120 lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	241 lbs/kft (359 kg/km)

Temperature Range

Installation Temperature Range:	0°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
Flammability / Reaction to Fire:	NFPA 262
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	FT6
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	568.3, 598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.11 Revision Date: 05-05-2026
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Part Numbers

Variants

Item #	Color	Putup Type
FDSM048A2	Black	Reel

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