



Product: [FDSM048P2Y](#) 

Indoor/Outdoor Mini-Distribution OS2 48 Fibers OFNP Sub-Units 3.0 MM (12F)

Product Description

FX Indoor/Outdoor, Mini-Distribution, OS2, 48 Fibers, OFNP, Sub-Units 3.0 MM (12F), 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, G.657.A1, G.652.D
Fiber Core Diameter:	8.2/125 μ m
Fiber Diameter:	250 μ m
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	4
Fibers Per Subunit:	12
Subunit Waterblocking:	Aramid Yarn
Subunit Diameter:	0.118 in (3.0 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Waterblocking Aramid Yarn
Central Strength Member Type:	GRP

Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.421 in (10.7 mm)
Outer Jacket Color:	Yellow
Outer Jacket Ripcord:	1

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.5 dB/km	0.5 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	--

Mechanical Characteristics

Minimum Bend Radius During Installation:	15 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:	220 N/cm

Temperature Range

Installation Temperature Range:	0°C to +60°C
Operating Temperature Range:	-20°C to +70°C
Storage Temperature Range:	-20°C to +70°C

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	OFNP
CEC / C(UL) Compliance:	OFNP
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.7 Revision Date: 12-05-2025
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