



Product: [FDSR048R2](#)

Indoor/Outdoor OFNR OS2 Flexible Ribbon 48 Fibers 3mm Sub-Units Black Jacket

Product Description

FX Indoor/Outdoor, OS2, Flexible Ribbon, 48 Fibers, OFNR, Subunits 3.0 mm (12 F), Black Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Ribbon Cable
Suitable Applications:	Data Center, RAN, Horizontal Backbone, Premise Backbone

Fiber Specifications

Fiber Type:	OS2, G.657.A1, G.652.D
Fiber Core 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
Central Strength Member:	GRP

Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.38 in (9.6 mm)
Color:	Black
Number of Ripcords:	1

Optical Characteristics

Wavelength	1300 nm	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km	0.50 dB/km
1 Gigabit Ethernet Performance		5,000 m	
10 Gigabit Ethernet Performance	10,000 m	10,000 m	50,000 m

Mechanical Characteristics

Min. Bend Radius During Installation:	15x Cable OD
Min. Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	1320 N (300 lbf)
Max. Tensile Strength During Operation:	400 N (90 lbf)
Crush Resistance:	100 N/cm
Bulk Cable Weight:	49 lbs/kft (73 kg/km)

Temperature Range

Installation Temperature Range:	-10°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
Flammability / Reaction to Fire:	UL 1666, FT4
NEC / UL Compliance:	OFNR
CEC / C(UL) Compliance:	OFNR
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: 0.22 Revision Date: 02-07-2025
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