

Product: FDSR144R5

Indoor/Outdoor Flexible Ribbon OS2 144 Fibers OFNR Sub-Units 3.0 mm (24F)

Product Description

FX Indoor/Outdoor, Flexible Ribbon, OS2,144 Fibers, OFNR, Sub-Units 3.0 mm (24F), 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 Diameter:	250 µm
Fiber Count:	144
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	6
Fibers Per Subunit:	24
Subunit Diameter:	0.118 in (3.0 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Waterblocking Aramid Yarns
Central Strength Member Type:	GRP

Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.46 in (11.6 mm)
Outer Jacket Color:	Black
Outer Jacket Ripcord:	1

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

Mechanical Characteristics

Minimum Bend Radius During Installation:	15x Cable OD
Minimum 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:	74 lbs/kft (110 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
Flammability / Reaction to Fire:	UL 1666, UL 1685, 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: 0.23 Revision Date: 07-16-2025

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