



Product: [FDSH012FD](#)

Indoor/Outdoor Heavy Duty Loose Tube OS2 12 Fibers OFCR Aluminum Interlocked Armor Sub-Units (12F) Dry

Product Description

FX Indoor/Outdoor Heavy Duty Loose Tube, OS2, 12 Fibers, OFCR, Aluminum Interlocked Armor, Sub-Units (12F) Dry, Black Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Multi-Loose Tube Cable
Suitable Applications:	Campus Area Network, Backbone

Fiber Specifications

Fiber Type:	OS2, G.657.A1, G.652.D
Fiber Diameter:	250 µm
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	1
Number of Fillers:	4
Fibers Per Subunit:	12
Subunit Waterblocking:	Gel Free
Subunit Diameter:	0.098 in (2.5 mm)
Subunit Color:	TIA-598-D
Central Strength Member:	GRP

Inner Jacket Specifications

Strength Member:	Waterblocking Fiberglass Yarns
Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.431 in (10.9 mm)
Color:	Black

Armor Specifications

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

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.781 in (19.8 mm)
Color:	Black

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

Mechanical Characteristics

Min. Bend Radius During Installation:	20 x Cable OD
Min. Bend Radius During Operation:	10 x Cable OD
Max. Tensile Strength During Installation:	2670 N (600 lbf)
Max. Tensile Strength During Operation:	800 N (180 lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	232 lbs/kft (345 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, Burial
Flammability / Reaction to Fire:	UL 1666, UL 1685, FT4
NEC / UL Compliance:	OFCR-ST1
CEC / C(UL) Compliance:	OFCR-ST1
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: 0.9 Revision Date: 04-15-2025
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