



**Product:** [FISD144AKA](#) 

Indoor Plenum OS2 Distribution 144Fibers Aluminum Interlocked

### Product Description

FX Indoor OS2 Distribution Tight Buffer 144 Fibers OFCP Aluminum Interlocked Armor Sub-Units(12F) Aqua Jacket

### Technical Specifications

#### Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	Premise Backbone

#### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 µm
Buffer Material:	PVC - Polyvinyl Chloride
Buffer Diameter:	900 µm
Fiber Count:	144
Fiber Color Coding:	TIA-598-D

#### Cable Construction

Number of Active Subunits:	12
Fibers Per Subunit:	12
Subunit Diameter:	0.220 in (5.6 mm)
Subunit Color:	Yellow
Subunit Strength Members:	Aramid yarns
Central Strength Member:	GRP
Core Wrap:	Nomex tape

#### Inner Jacket Specifications

Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	1.032 in (26.2 mm)
Color:	Aqua
Number of Ripcords:	1

#### Armor Specifications

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

Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	1.425 in (36.2 mm)
Color:	Aqua

#### Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km

Mode Field Diameter	9.2 $\mu\text{m}$	10.4 $\mu\text{m}$
1 Gigabit Ethernet Performance	5,000 m	--
10 Gigabit Ethernet Performance	10,000 m	50,000 m

## Mechanical Characteristics

Min. Bend Radius During Installation:	20x 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:	440 N/cm
Bulk Cable Weight:	672 lbs/kft (999.5 kg/km)

## Temperature Range

Installation Temp Range:	0°C to +60°C
Operating Temp Range:	0°C to +70°C
Storage Temp Range:	-40°C to +70°C

## Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	OFCP, FT6
ICEA Compliance:	S-83-596
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16

## History

Update and Revision:	Revision Number: 0.95 Revision Date: 12-15-2021
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