Belden



Product: FI1D048AK

Indoor Plenum OM1 Distribution 48Fibers Aluminum Interlocked

Product Description

FX Indoor OM1 Distribution Tight Buffer 48 Fibers OFCP Aluminum Interlocked Armor Sub-Units(12F) Orange Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	Premise Backbone

Fiber Specifications

Fiber Type:	OM1
Fiber Core Diameter:	62.5/125 µm
Fiber Buffer Material:	PVC - Polyvinyl Chloride
Fiber Buffer Diameter:	900 µm
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	4
Fibers Per Subunit:	12
Subunit Diameter:	0.220 in (5.6 mm)
Subunit Color:	Orange
Fiber SubUnit Strength Members:	Aramid yarns
Central Strength Member Type:	Upjacketed GRP
Core Wrap Material:	Nomex tape

Inner Jacket Specifications

Material:	PVC - Polyvinyl Chloride
Nominal Diameter@InnerJacket1 (cnv):	0.590 in (15.0 mm)
Color:	Orange
Number of Inner Jacket Ripcords:	1

Armor Specifications

Armor Type and Material:	AIA - Aluminum Interlock Armor

Outer Jacket Specifications

Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.936 in (23.8 mm)
Outer Jacket Color:	Orange

Mechanical Characteristics

Minimum Bend Radius During Installation:	20x 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:	440 N/cm
Bulk Cable Weight:	278 lbs/kft (414 kg/km)

Temperature Range

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

Standards and Compliance

Environmental Suitability:	Indoor
Sustainability:	CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available
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: 0.87 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	UPC
FI1D048AK	Orange	Reel	612825368274

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