Belden

Product: FI1M048A1

Indoor Mini-Distribution OM1 48 Fibers OFCP Aluminum Interlocked Armor Sub-Units 2.0 mm (12F)

Product Description

FX Indoor, Mini-Distribution, OM1, 48 Fibers, OFCP Aluminum Interlocked Armor, Sub-Units 2.0 mm, (12F) Orange Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Mini Distribution Cable
Suitable Applications:	Data Center, RAN, Horizontal Backbone, Premise Backbone, Patching, Trunking

Fiber Specifications

Fiber Type:	OM1
Fiber Core Diameter:	62.5/125 µm
Fiber 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:	0.078 in (2.0 mm)
Subunit Color:	Orange
Fiber SubUnit Strength Members:	Aramid yarns
Central Strength Member Type:	GRP

Inner Jacket Specifications

Inner Jacket Strength Member:	Aramid Yarns
Material:	PVC - Polyvinyl Chloride
Nominal Diameter@InnerJacket1 (cnv):	0.272 in (6.9 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:	0.577 in (14.7 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:	660 N (150 lbf)

Max. Tensile Strength During Operation:	200 N (45 lbf)
Crush Resistance:	440 N/cm
Bulk Cable Weight:	110 lbs/kft (16 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
Flammability / Reaction to Fire:	NFPA 262, FT6
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	OFCP
ICEA Compliance:	S-83-596
TIA/EIA Compliance:	598-D
Telcordia Compliance:	GR-409
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.91 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	Putup Type	UPC
FI1M048A1	Orange	Reel	612825287452

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