Belden



Product: FDSD048LK

Indoor/Outdoor LSZH/Riser OS2 Distribution 48Fibers

Product Description

FX Indoor/Outdoor OS2 Distribution Tight Buffer 48 Fibers LSZH Sub-Units(12F) Black 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
Fiber Buffer Material:	LSZH - Low Smoke Zero Halogen
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:	0.230 in (5.8 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Waterblocking aramid yarns
Central Strength Member Type:	Upjacketed GRP
Core Wrap Material:	Waterblocking tape
Cable Core Water Blocking:	Waterblocking Aramid Yarns

Outer Jacket Specifications

Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.688 in (17.5 mm)
Outer Jacket Color:	Black
Outer Jacket Ripcord:	1

Mechanical Characteristics

Minimum Bend Radius During Installation:	15x Cable OD
Minimum Bend Radius During Operation:	10x Cable OD
Max. Tensile Strength During Installation:	2670 N (600 lbf)
Max. Tensile Strength During Operation:	800 N (180 lbf)
Crush Resistance:	220 N/cm
Bulk Cable Weight:	156 lbs/kft (233 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
Sustainability:	CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	OFNR, FT4
ICEA Compliance:	S-104-696
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: 0.76 Revision Date: 09-07-2025

Part Numbers

Variants

Item #	Color	UPC
FDSD048LK	Black	612825380788

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