



Product: [FDSM012A2](#)

Indoor/Outdoor Plenum OS2 Mini-Distribution 12 Fibers Aluminium Interlocked 3mm SubUnit

Product Description

FX Indoor/Outdoor, OS2, Mini-Distribution, 12 Fibers, OFCP, Aluminum Interlocked Armor, 12F/Sub-Unit (3.0mm), Black 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:	OS2
Fiber Core Diameter:	8.2/125 μ m
Fiber Diameter:	250 μ m
Fiber Count:	12
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	1
Number of Fillers:	0
Fibers Per Subunit:	12
Subunit Diameter:	0.120 in (3.0 mm)
Subunit Color:	Yellow
Subunit Strength Members:	Waterblocking Aramid Yarns

Inner Jacket Specifications

Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.190 in (4.8 mm)
Color:	Black

Armor Specifications

Armor Type and Material:	AIA - Aluminum Interlock Armor
--------------------------	--------------------------------

Outer Jacket Specifications

Jacket Material:	PVDF - Polyvinylidene Fluoride
Nom. Diameter:	0.480 in (12.2 mm)
Color:	Black

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.4 dB/km	0.3 dB/km

Mechanical Characteristics

Min. Bend Radius During Installation:	20x Cable OD
Min. 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

Temperature Range

Installation Temperature Range:	0°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, UV Resistance
Flammability / Reaction to Fire:	OFCP, UL 910, FT6
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	OFCP
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	ANSI/ICEA 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)

History

Update and Revision:	Revision Number: 0.18 Revision Date: 04-11-2024
----------------------	---

Part Numbers

Variants

Item #	Color
FDSM012A2A	Aqua
FDSM012A2E	Erika Violet
FDSM012A2L	Lime Green
FDSM012A2O	Orange
FDSM012A2Y	Yellow

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.