



Product: [FDSD096AKY](#) 

Indoor/Outdoor Distribution Tight Buffer OS2 96 Fibers OFCP Aluminum Interlocked Armor Sub-Units(12F)

Product Description

FX Indoor/Outdoor, Distribution Tight Buffer, OS2, 96 Fibers, OFCP, Aluminum Interlocked Armor, Sub-Units(12F), Black Jacket

Technical Specifications

Product Overview

Product Category:	Fiber Distribution Cable
Suitable Applications:	Premise Backbone

Fiber Specifications

Fiber Type:	OS2
Fiber Buffer Diameter:	900 µm
Fiber Count:	96
Fiber Color Coding:	TIA-598-D

Cable Construction

Number of Active Subunits:	8
Fibers Per Subunit:	12
Subunit Diameter:	0.220 in (5.6 mm)
Subunit Color:	Yellow
Fiber SubUnit Strength Members:	Aramid yarns
Central Strength Member Type:	GRP
Core Wrap Material:	Tape

Inner Jacket Specifications

Material:	PVC - Polyvinyl Chloride
Nominal Diameter@InnerJacket1 (cnv):	0.900 in (22.9 mm)
Color:	Yellow
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:	1.232 in (31.0 mm)
Outer Jacket Color:	Yellow

Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.50 dB/km	0.50 dB/km
10 Gigabit Ethernet Performance	10,000 m	50,000 m
40 Gigabit Ethernet Performance	10,000 m	--
100 Gigabit Ethernet Performance	10,000 m	--

Mechanical Characteristics

Minimum Bend Radius During Installation:	20x 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:	440 N/cm
Bulk Cable Weight:	523 lbs/kft (779 kg/km)

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
Sustainability:	CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262
NEC / UL Compliance:	OFCP
CEC / C(UL) Compliance:	FT6.
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	568.3, 598-D
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment)

History

Update and Revision:	Revision Number: 0.3 Revision Date: 08-10-2026
----------------------	--

© 2026 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.