



Product: [FD2L048RD](#)

Indoor/Outdoor Riser Loose Tube OM2 48F Unitized

**Product Description**  
FX Indoor/Outdoor Loose Tube OM2 48 Fibers OFNR Sub-Units(12F) Dry Black

**Technical Specifications**

**Product Overview**

Suitable Applications:	Campus Area Network, Backbone
------------------------	-------------------------------

**Fiber Specifications**

Fiber Type:	OM2
Fiber Core Diameter:	50/125 µm
Fiber Diameter:	250 µm
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

**Cable Construction**

Number of Active Subunits:	4
Number of Fillers:	1
Fibers Per Subunit:	12
Subunit Waterblocking:	Gel Free
Subunit Diameter:	0.110 in (2.8 mm)
Subunit Color:	TIA-598-D
Subunit Strength Members:	Waterblocking aramid yarns
Central Strength Member:	GRP
Core Wrap:	Waterblocking tape
Cable Core Waterblocking:	Waterblock Tape

**Outer Jacket Specifications**

Strength Member:	Waterblocking Aramid Yarns
Jacket Material:	PVC - Polyvinyl Chloride
Nom. Diameter:	0.400 in (10.2 mm)
Number of Ripcords:	2

**Optical Characteristics**

Wavelength	850 nm	1300 nm
Max. Attenuation	3.0 dB/km	1.0 dB/km
1 Gigabit Ethernet Performance	600 m	600 m
10 Gigabit Ethernet Performance	82 m	-
Min. Restricted Mode Launch	950 MHz.km	500 MHz.km
Min. Overfilled Launch (OFL) Bandwidth	700 MHz.km	500 MHz.km

**Mechanical Characteristics**

Min. Bend Radius During Installation:	15x Cable OD
---------------------------------------	--------------

Min. 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:	63 lbs/kft (93 kg/km)

Temperature Range

Installation Temperature Range:	-10°C to +60°C
Operating Temperature Range:	-50°C to +70°C
Storage Temperature Range:	-50°C to +70°C

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	OFNR, FT4
ICEA Compliance:	S-104-696
TIA/EIA Compliance:	ANSI/ICEA S-104-696

History

Update and Revision:	Revision Number: 0.76 Revision Date: 11-09-2022
----------------------	---

Part Numbers

Variants

Item #	Color	Putup Type	UPC
FD2L048RD	Black	Reel	612825383383

© 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.