



Product: [FD2D006A9](#)

Indoor/Outdoor Plenum OM2 Distribution 6Fibers Aluminum Interlocked

Product Description

FX Indoor/Outdoor OM2 Distribution Tight Buffer 6 Fibers OFCP Aluminum Interlocked Armor Non-Unitized Black Jacket

Technical Specifications

Product Overview

|                        |                          |
|------------------------|--------------------------|
| Product Category:      | Fiber Distribution Cable |
| Suitable Applications: | Premise Backbone         |

Fiber Specifications

|                      |                          |
|----------------------|--------------------------|
| Fiber Type:          | OM2                      |
| Fiber Core Diameter: | 50/125 µm                |
| Buffer Material:     | PVC - Polyvinyl Chloride |
| Buffer Diameter:     | 900 µm                   |
| Fiber Count:         | 6                        |
| Fiber Color Coding:  | TIA-598-D                |

Cable Construction

|                           |                            |
|---------------------------|----------------------------|
| Cable Core Waterblocking: | Waterblocking Aramid Yarns |
|---------------------------|----------------------------|

Inner Jacket Specifications

|                     |                            |
|---------------------|----------------------------|
| Strength Member:    | Waterblocking Aramid Yarns |
| Material:           | PVC - Polyvinyl Chloride   |
| Nom. Diameter:      | 0.190 in (4.8 mm)          |
| Color:              | Black                      |
| Number of Ripcords: | 1                          |

Armor Specifications

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

Outer Jacket Specifications

|                  |                          |
|------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter:   | 0.440 in (11.2 mm)       |
| Color:           | Black                    |

Optical Characteristics

| Wavelength                             | 850 nm     | 1300 nm    |
|----------------------------------------|------------|------------|
| Max. Attenuation                       | 3.5 dB/km  | 1.25 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:      | 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                |
| Bulk Cable Weight:                         | 103 lbs/kft (154 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, Burial                                                                                             |
| Sustainability:                  | CA Prop 65, Product Lens™, Environmental Product Declaration (EPD) Available                                                            |
| Flammability / Reaction to Fire: | OFCP, FT6                                                                                                                               |
| 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: 0.79 Revision Date: 11-09-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FD2D006A9 | Black | Reel       | 612825368908 |

© 2023 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.