



**Product:** [FD2D096AK](#)

Indoor/Outdoor Plenum OM2 Distribution 96Fibers Aluminum Interlocked

### Product Description

FX Indoor/Outdoor OM2 Distribution Tight Buffer 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:          | OM2                      |
| Fiber Core Diameter: | 50/125 µm                |
| Buffer Material:     | PVC - Polyvinyl Chloride |
| 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:             | Orange                       |
| Subunit Strength Members:  | Waterblocking aramid yarns   |
| Central Strength Member:   | Upjacketed GRP               |
| Core Wrap:                 | Waterblocking and nomex tape |
| Cable Core Waterblocking:  | Waterblock Tape              |

#### Inner Jacket Specifications

|                     |                          |
|---------------------|--------------------------|
| Material:           | PVC - Polyvinyl Chloride |
| Nom. Diameter:      | 0.900 in (22.9 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:   | 1.260 in (32.0 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: | 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, Burial   |
| Sustainability:                  | CA Prop 65, Product Lens™   |
| 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: 0.82 Revision Date: 11-09-2022 |
|----------------------|---|

## Part Numbers

### Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FD2D096AK | Black | Reel       | 612825368960 |

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