



Product: [FD2D144PK](#)

Indoor/Outdoor Plenum OM2 Distribution 144Fibers

**Product Description**  
FX Indoor/Outdoor OM2 Distribution Tight Buffer 144 Fibers OFNP 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:         | 144                      |
| Fiber Color Coding:  | TIA-598-D                |

Cable Construction

|                            |                              |
|----------------------------|------------------------------|
| Number of Active Subunits: | 12                           |
| Fibers Per Subunit:        | 12                           |
| Subunit Diameter:          | 0.220 in (5.6 mm)            |
| Subunit Color:             | Orange                       |
| Subunit Strength Members:  | Waterblocking aramid yarns   |
| Central Strength Member:   | GRP                          |
| Core Wrap:                 | Waterblocking and nomex tape |
| Cable Core Waterblocking:  | Waterblock Tape              |

Outer Jacket Specifications

|                     |                          |
|---------------------|--------------------------|
| Jacket Material:    | PVC - Polyvinyl Chloride |
| Nom. Diameter:      | 1.065 in (27.1 mm)       |
| Color:              | Black                    |
| Number of Ripcords: | 1                        |

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: | 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:                         | 366 lbs/kft (545 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: | OFNP, 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: 0.78 Revision Date: 11-09-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FD2D144PK | Black | Reel       | 612825367437 |

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