

# Product: FDSM024P2

Indoor/Outdoor Plenum OS2 Mini-Distribution 24 Fibers 3mm SubUnit

## Product Description

FX Indoor/Outdoor, OS2, Mini-Distribution, 24 Fibers, OFNP, 12F/Sub-Unit (3.0mm), Black Jacket

## Technical Specifications

### Product Overview

| | |
|---|---|
| Product Category: | Fiber Mini Distribution Cable |
| Suitable Applications: | Data Center, RAN, Horizontal Backbone, Premise Backbone, Patching, Trunking |

### Fiber Specifications

| | |
|---|---|
| Fiber Type: | OS2 |
| Fiber Core Diameter: | 8.2/125 µm |
| Fiber Diameter: | 250 µm |
| Buffer Diameter: | 900 µm |
| Fiber Count: | 24 |
| Fiber Color Coding: | TIA-598-D |

### Cable Construction

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|---|---|
| Number of Active Subunits: | 2 |
| Number of Fillers: | 2 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 0.118 in (3.0 mm) |
| Subunit Color: | Yellow |
| Subunit Strength Members: | Waterblocking Aramid Yarns |
| Central Strength Member: | GRP |
| Cable Core Waterblocking: | Waterblock Tape |

### Outer Jacket Specifications

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|---|---|
| Strength Member: | Waterblocking Aramid Yarns |
| Jacket Material: | Thermoplastic |
| Nom. Diameter: | 0.421 in (10.7 mm) |
| Color: | Black |
| Number of Ripcords: | 1 |

#### Optical Characteristics

| Wavelength | 1310 nm | 1550 nm |
|---|---|---|
| Max. Attenuation | 0.4 dB/km | 0.50 dB/km |

### Mechanical Characteristics

| | |
|---|---|
| Min. Bend Radius During Installation: | 15x Cable OD |
| Min. Bend Radius During Operation: | 10x Cable OD |
| Max. Tensile Strength During Installation: | 1800 N (405 lbf) |
| Max. Tensile Strength During Operation: | 540 N (120 lbf) |

| | |
|---|---|
| Crush Resistance: | 220 N/cm |
| Bulk Cable Weight: | 65 lbs/kft |

## Temperature Range

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|---|---|
| Installation Temperature Range: | 0°C to +60°C |
| Operating Temperature Range: | -20°C to +70°C |
| Storage Temperature Range: | -20°C to +70°C |

## Standards and Compliance

| | |
|---|---|
| Environmental Suitability: | Indoor/Outdoor, Sunlight Resistance, UV Resistance, Burial |
| Flammability / Reaction to Fire: | OFNP, UL 910, FT6 |
| NEC / UL Compliance: | OFNP |
| CEC / C(UL) Compliance: | OFNP |
| ICEA Compliance: | S-104-696 |
| TIA/EIA Compliance: | ANSI/ICEA 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) |

## History

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|---|---|
| Update and Revision: | Revision Number: 0.23 Revision Date: 10-15-2024 |

## Part Numbers

**Variants**

| Item # | Color |
|---|---|
| FDSM024P2A | Aqua |
| FDSM024P2E | Erika Violet |
| FDSM024P2L | Lime Green |
| FDSM024P2O | Orange |
| FDSM024P2Y | Yellow |

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