



Product: [FDSD024AJ](#)

Indoor/Outdoor Plenum OS2 Distribution 24Fibers Aluminum Interlocked

Product Description

FX Indoor/Outdoor OS2 Distribution Tight Buffer 24 Fibers OFCP Aluminum Interlocked Armor Sub-Units(6F) Black Jacket

Technical Specifications

Product Overview

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

Fiber Specifications

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|----------------------|--------------------------|
| Fiber Type: | OS2 |
| Fiber Core Diameter: | 8.2/125 μ m |
| Buffer Material: | PVC - Polyvinyl Chloride |
| Buffer Diameter: | 900 μ m |
| Fiber Count: | 24 |
| Fiber Color Coding: | TIA-598-D |

Cable Construction

| | |
|----------------------------|------------------------------|
| Number of Active Subunits: | 4 |
| Fibers Per Subunit: | 6 |
| Subunit Diameter: | 0.180 in (4.6 mm) |
| Subunit Color: | Yellow |
| Subunit Strength Members: | Waterblocking aramid yarns |
| Central Strength Member: | GRP |
| Core Wrap: | Waterblocking and nomex tape |
| Cable Core Waterblocking: | Waterblock Tape |

Inner Jacket Specifications

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|---------------------|--------------------------|
| Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.527 in (13.4 mm) |
| Color: | Black |
| Number of Ripcords: | 1 |

Armor Specifications

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

Outer Jacket Specifications

| | |
|------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.876 in (22.3 mm) |
| Color: | Black |

Optical Characteristics

| Wavelength | 1310 nm | 1550 nm |
|------------|---------|---------|
|------------|---------|---------|

| | | |
|---------------------------------|-------------------|--------------------|
| Max. Attenuation | 0.50 dB/km | 0.50 dB/km |
| Mode Field Diameter | 9.2 μm | 10.4 μm |
| 1 Gigabit Ethernet Performance | 5,000 m | -- |
| 10 Gigabit Ethernet Performance | 10,000 m | 50,000 m |

Mechanical Characteristics

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|--|-------------------------|
| 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: | 232 lbs/kft (345 kg/km) |

Temperature Range

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|---------------------------------|----------------|
| 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

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|----------------------|--|
| Update and Revision: | Revision Number: 0.108 Revision Date: 11-09-2022 |
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Part Numbers

Variants

| Item # | Color | Putup Type | UPC |
|-----------|-------|------------|--------------|
| FDSD024AJ | Black | Reel | 612825369158 |

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