



Product: [FD3D048AK](#)

Indoor/Outdoor Plenum OM3 Distribution 48Fibers Aluminum Interlocked



Product Description

FX Indoor/Outdoor OM3 Distribution Tight Buffer 48 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

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|----------------------|--------------------------|
| Fiber Type: | OM3 |
| Fiber Core Diameter: | 50/125 μ m |
| Buffer Material: | PVC - Polyvinyl Chloride |
| Buffer Diameter: | 900 μ m |
| Fiber Count: | 48 |
| Fiber Color Coding: | TIA-598-D |

Cable Construction

| | |
|----------------------------|------------------------------|
| Number of Active Subunits: | 4 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 0.220 in (5.6 mm) |
| Subunit Color: | Aqua |
| 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: | 0.623 in (15.8 mm) |
| Color: | Black |
| Number of Ripcords: | 1 |

Armor Specifications

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

Outer Jacket Specifications

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|------------------|--------------------------|
| Jacket Material: | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.976 in (24.8 mm) |
| Color: | Black |

Optical Characteristics

| Wavelength | 850 nm | 1300 nm |
|------------|--------|---------|
|------------|--------|---------|

| | | |
|--|-------------|------------|
| Max. Attenuation | 3.0 dB/km | 1.0 dB/km |
| 1 Gigabit Ethernet Performance | 1000 m | 550 m |
| 10 Gigabit Ethernet Performance | 300 m | -- |
| Min. Effective Modal Bandwidth (EMB) | 2000 MHz.km | -- |
| Min. Overfilled Launch (OFL) Bandwidth | 1500 MHz.km | 500 MHz.km |

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: | 293 lbs/kft (435 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: 0.87 Revision Date: 11-09-2022 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | Putup Type | UPC |
|-----------|-------|------------|--------------|
| FD3D048AK | Black | Reel | 612825369103 |

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