



Product: [FD3D096AK](#)

Indoor/Outdoor Plenum OM3 Distribution 96Fibers Aluminum Interlocked

Product Description

FX Indoor/Outdoor OM3 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:          | OM3                      |
| 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:             | 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:      | 0.900 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                       | 3.0 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

|                                            |                         |
|--------------------------------------------|-------------------------|
| 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: 0.84 Revision Date: 11-09-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #    | Color | Putup Type | UPC          |
|-----------|-------|------------|--------------|
| FD3D096AK | Black | Reel       | 612825369127 |

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