



Product: [FDSD048LK](#)

Indoor/Outdoor LSZH/Riser OS2 Distribution 48Fibers

Product Description

FX Indoor/Outdoor OS2 Distribution Tight Buffer 48 Fibers LSZH 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: | OS2 |
| Fiber Core Diameter: | 8.2/125 µm |
| Buffer Material: | LSZH - Low Smoke Zero Halogen |
| Buffer Diameter: | 900 µm |
| Fiber Count: | 48 |
| Fiber Color Coding: | TIA-598-D |

Cable Construction

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|----------------------------|----------------------------|
| Number of Active Subunits: | 4 |
| Fibers Per Subunit: | 12 |
| Subunit Diameter: | 0.230 in (5.8 mm) |
| Subunit Color: | Yellow |
| Subunit Strength Members: | Waterblocking aramid yarns |
| Central Strength Member: | Upjacketed GRP |
| Core Wrap: | Waterblocking tape |
| Cable Core Waterblocking: | Waterblocking Aramid Yarns |

Outer Jacket Specifications

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|---------------------|---|
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 0.688 in (17.5 mm) |
| Color: | Black |
| Number of Ripcords: | 1 |

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: | 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: | 156 lbs/kft (233 kg/km) |

Temperature Range

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|---------------------------------|----------------|
| Installation Temperature Range: | -10°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: | OFNR, FT4 |
| 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: 0.75 Revision Date: 11-09-2022 |
|----------------------|---|

Part Numbers

Variants

| Item # | Color | UPC |
|-----------|-------|--------------|
| FDSD048LK | Black | 612825380788 |

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