




Product: [TT-1DK-048-LIN](#) 

Transit, In+Outdoor, DN, OM1, 48f, Unitized, AIA, Dbl Jkt - LSZH, OFCR-ST1

Product Description

Transit Grade, Indoor/Outdoor, Distribution, OM1, 48 Fibers, Unitized (12f/unit) 900um, Aluminum Interlock Armor, Double Jacket - LSZH, OFCR-ST1

Technical Specifications

Product Overview

| | |
|------------------------|---|
| Product Category: | Fiber Distribution Cable |
| Suitable Applications: | Extended Distance Horizontal & Backbone Data/Telco Network, Noisy Environment, Indoor/Outdoor & Wet Locations, Rodent Proof |

Fiber Specifications

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|----------------------|-------------------------------|
| Fiber Type: | OM1 |
| Fiber Core Diameter: | 62.5/125 μ m |
| Fiber Diameter: | 250 μ m |
| Buffer Material: | LSZH - Low Smoke Zero Halogen |
| Buffer Diameter: | 900 μ m |
| 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: | Orange |
| Subunit Strength Members: | Waterblocking Aramid Yarn |
| Central Strength Member: | Upjacketed GRP |
| Core Wrap: | Waterblocking Tape |

Inner Jacket Specifications

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|---------------------|---|
| Strength Member: | Waterblocking Aramid Yarns |
| Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 0.688 in (17.5 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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|----------------|---|
| Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter: | 1.100 in (27.9 mm) |

Optical Characteristics

| Wavelength | 850 nm | 1300 nm |
|------------------|-----------|------------|
| Max. Attenuation | 3.5 dB/km | 1.25 dB/km |

| | | |
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| 1 Gigabit Ethernet Performance | 300 m | 550 m |
| 10 Gigabit Ethernet Performance | 33 m | - |
| Min. Restricted Mode Launch | 220 MHz.km | - |
| Min. Overfilled Launch (OFL) Bandwidth | 200 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: | 1335 N (300 lbf) |
| Max. Tensile Strength During Operation: | 400 N (90 lbf) |
| Crush Resistance: | 440 N/cm |
| Bulk Cable Weight: | 389 lbs/kft (579 kg/km) |

Temperature Range

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|--------------------------|----------------|
| Installation Temp Range: | -10°C to +60°C |
| Operating Temp Range: | -40°C to +70°C |
| Storage Temp Range: | -40°C to +70°C |

Standards and Compliance

| | |
|----------------------------------|---|
| Environmental Suitability: | Indoor/Outdoor, Sunlight Resistance, Burial |
| Sustainability: | CA Prop 65 |
| Flammability / Reaction to Fire: | OFCC-ST1, FT4 |
| ICEA Compliance: | S-104-696 |
| Other Standard Compliance(s): | NFPA 130, NFPA 502 |

History

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| Update and Revision: | Revision Number: 0.24 Revision Date: 04-08-2022 |
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