



REPRESENTATIVE IMAGE

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

Transit, In+Outdoor, DN, OM1, 48f, Unitized, Sgl Jkt - LSZH, OFNR-ST1

## Product Description

Transit Grade, Indoor/Outdoor, Distribution, OM1, 48 Fibers, Unitized (12f/unit) 900um, Single Jacket - LSZH, OFNR-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

### Fiber Specifications

Fiber Type:	OM1
Fiber Core Diameter:	62.5/125 $\mu$ m
Fiber Diameter:	250 $\mu$ m
Buffer Material:	LSZH - Low Smoke Zero Halogen
Buffer Diameter:	900 $\mu$ m
Fiber Count:	48
Fiber Color Coding:	TIA-598-D

### Cable Construction

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

### Outer Jacket Specifications

Strength Member:	Waterblocking Aramid Yarns
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.688 in (17.5 mm)
Number of Ripcords:	1

### Optical Characteristics

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

Min. Bend Radius During Installation:	15x 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:	220 N/cm
Bulk Cable Weight:	158 lbs/kft (235 kg/km)

## Temperature Range

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:	OFNR-ST1, FT4
ICEA Compliance:	S-104-696
Other Standard Compliance(s):	NFPA 130, NFPA 502

## History

Update and Revision:	Revision Number: 0.23 Revision Date: 04-08-2022
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