



**Product:** [TT-SCN-024-LRN](#)

RailTuff, In+Outdoor, CLT, OS2, 24f, Dry Tubes 3.3mm, RP Sgl Jkt, Blk, LSZH, OFNG-ST1

## Product Description

Transit Grade, Indoor/Outdoor, Central Loose-Tube, OS2, 24 Fibers, Dry Tube 3.3mm, Rodent Protected, Single Jacket, Black, LSZH, OFNG-ST1

## Technical Specifications

### Product Overview

Product Category:	Fiber Central Loose Tube Cable
Suitable Applications:	Extended Distance Horizontal & Backbone Data/Telco Network, Noisy Environment, Indoor/Outdoor & Wet Locations, Rodent Proof, UV Resistant

### Fiber Specifications

Fiber Type:	OS2
Fiber Core Diameter:	8.2/125 $\mu\text{m}$
Fiber Diameter:	250 $\mu\text{m}$
Fiber Color Coding:	TIA-598-D

### Cable Construction

Number of Active Subunits:	1
Number of Fillers:	0
Fibers Per Subunit:	24
Subunit Waterblocking:	Gel Free
Subunit Diameter:	0.130 in (3.3 mm)
Subunit Color:	Blue

### Outer Jacket Specifications

Strength Member:	Fiberglass Yarns
Jacket Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)
Nom. Diameter:	0.315 in (8.0 mm)
Number of Ripcords:	1

### Optical Characteristics

Wavelength	1310 nm	1550 nm
Max. Attenuation	0.35	0.25
Mode Field Diameter	9.2 $\mu\text{m}$	10.4 $\mu\text{m}$
1 Gigabit Ethernet Performance	5000 m	
10 Gigabit Ethernet Performance	10000 m	40000 m

### Mechanical Characteristics

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:	43 lbs/kft (64 kg/km)

## Temperature Range

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
Flammability / Reaction to Fire:	UL 1685 FT4 Loading, Limited Smoke, FT4
NEC / UL Compliance:	OFNG-ST1
ICEA Compliance:	S-104-696

## History

Update and Revision:	Revision Number: 0.9 Revision Date: 11-14-2022
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## Part Numbers

### Variants

Item #
TT-SCN-024-LRNN

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