



**Product:** [TT-1LG-024-HSN](#)

RailTuff, In+Outdoor, MLT, OM1, 24f, Gel Tubes 2.8mm, CST, Sgl Jkt, Blk, LSZH, OFCG-ST1

**Product Description**

Transit Grade, Indoor/Outdoor, Multi-Loose-Tube, OM1, 24 Fibers, Gel Filled Tubes 2.8mm, Corrugated Steel Tape, Single Jacket, Black, LSZH, OFCG-ST1

**Technical Specifications**

**Product Overview**

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

**Fiber Specifications**

|                      |             |
|----------------------|-------------|
| Fiber Type:          | OM1         |
| Fiber Core Diameter: | 62.5/125 µm |
| Fiber Diameter:      | 250 µm      |
| Fiber Count:         | 24          |
| Fiber Color Coding:  | TIA-598-D   |

**Cable Construction**

|                            |                    |
|----------------------------|--------------------|
| Number of Active Subunits: | 2                  |
| Number of Fillers:         | 3                  |
| Fibers Per Subunit:        | 12                 |
| Subunit Waterblocking:     | Gel Filled         |
| Subunit Diameter:          | 0.110 in (2.8 mm)  |
| Subunit Color:             | TIA-598-D          |
| Central Strength Member:   | GRP                |
| Core Wrap:                 | Waterblocking tape |

**Armor Specifications**

|                          |                             |
|--------------------------|-----------------------------|
| Armor Type and Material: | CST - Corrugated Steel Tape |
|--------------------------|-----------------------------|

**Outer Jacket Specifications**

|                  |                                                 |
|------------------|-------------------------------------------------|
| Strength Member: | Waterblocking Aramid Yarns                      |
| Jacket Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:   | 0.530 in (13.5 mm)                              |

**Optical Characteristics**

| Wavelength                             | 850 nm     | 1300 nm    |
|----------------------------------------|------------|------------|
| Max. Attenuation                       | 3.25 dB/km | 1.0 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: | 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:                          | 220 N/cm         |

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

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.14 Revision Date: 11-14-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type    | UPC          |
|-----------------|-------|---------------|--------------|
| TT-1LG-024-HSNN | Black | Cut to Length | 612825486602 |

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