



**Product:** [TT-SDK-024-LNN](#) 

Transit, In+Outdoor, DN, OS2, 24f, Unitized, Sgl Jkt - LSZH, OFNR-ST1

**Product Description**  
Transit Grade, Indoor/Outdoor, Distribution, OS2, 24 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:          | OS2                           |
| Fiber Core Diameter: | 8.2/125 µm                    |
| Fiber Diameter:      | 250 µm                        |
| Buffer Material:     | LSZH - Low Smoke Zero Halogen |
| Buffer Diameter:     | 900 µm                        |
| Fiber Count:         | 24                            |
| Fiber Color Coding:  | TIA-598-D                     |

**Cable Construction**

|                            |                           |
|----------------------------|---------------------------|
| Number of Active Subunits: | 2                         |
| Number of Fillers:         | 2                         |
| Fibers Per Subunit:        | 12                        |
| Subunit Diameter:          | 0.230 in (5.8 mm)         |
| Subunit Color:             | Yellow                    |
| Subunit Strength Members:  | Waterblocking Aramid Yarn |
| Central Strength Member:   | Upjacketed GRP            |
| Core Wrap:                 | Waterblocking Tape        |

**Outer Jacket Specifications**

|                     |                                                 |
|---------------------|-------------------------------------------------|
| Strength Member:    | Waterblocking Aramid Yarns                      |
| Jacket Material:    | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 0.688 in (17.5 mm)                              |
| 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   | 40,000 m   |

**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:                         | 166 lbs/kft (247 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: | OFNR-ST1, FT4                               |
| ICEA Compliance:                 | S-104-696                                   |
| Other Standard Compliance(s):    | NFPA 130, NFPA 502                          |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.29 Revision Date: 11-14-2022 |
|----------------------|-------------------------------------------------|

Part Numbers

Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TT-SDK-024-LNNN | Black | Reel       |

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