



**Product:** [TT-1AD-024-H23](#)

Transit, In+Outdoor, Artic MLT, OM1, 24f, Dry Tubes 2.8mm, Dbl Jkt - LSZH, OFNG-ST1, Oil Res 2

**Product Description**

Transit Grade, Indoor/Outdoor, Artic Multi-Loose-Tube, OM1, 24 Fibers, Dry Tubes 2.8mm, Double Jacket - LSZH, OFNG-ST1, Oil Res 2

**Technical Specifications**

**Product Overview**

|                        |   |
|------------------------|---|
| Product Category:      | Fiber Multi-Loose Tube 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 µm |
| Fiber Diameter:      | 250 µm      |
| Fiber Count:         | 24          |
| Fiber Color Coding:  | TIA-598-D   |

**Cable Construction**

|                            |                    |
|----------------------------|--------------------|
| Number of Active Subunits: | 2                  |
| Number of Fillers:         | 4                  |
| Fibers Per Subunit:        | 12                 |
| Subunit Waterblocking:     | Gel Free           |
| Subunit Diameter:          | 0.110 in (2.8 mm)  |
| Subunit Color:             | Blue, Orange       |
| Central Strength Member:   | GRP                |
| Core Wrap:                 | Waterblocking tape |

**Inner Jacket Specifications**

|           |   |
|-----------|---|
| Material: | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Color:    | Black   |

**Outer Jacket Specifications**

|                     |   |
|---------------------|---|
| Strength Member:    | Waterblocking Aramid Yarns                      |
| Jacket Material:    | LSZH - Low Smoke Zero Halogen (Flame Retardant) |
| Nom. Diameter:      | 0.575 in (14.6 mm)                              |
| Number of Ripcords: | 1   |

**Optical Characteristics**

| Wavelength                             | 850 nm     | 1300 nm    |
|--|------------|------------|
| Max. Attenuation                       | 3.5 dB/km  | 1.2 dB/km  |
| 1 Gigabit Ethernet Performance         | 300 m      | 550 m      |
| 10 Gigabit Ethernet Performance        | -          | -          |
| 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: | 4400 N (990 lbf)        |
| Max. Tensile Strength During Operation:    | 1300 N (290 lbf)        |
| Crush Resistance:                          | 440 N/cm                |
| Bulk Cable Weight:                         | 139 lbs/kft (207 kg/km) |

## Temperature Range

|                                 |              |
|---------------------------------|--------------|
| Installation Temperature Range: | -30C to +50C |
| Operating Temperature Range:    | -50C to +70C |
| Storage Temperature Range:      | -50C to +70C |

## Standards and Compliance

|                                  |                                     |
|----------------------------------|-------------------------------------|
| Environmental Suitability:       | Indoor/Outdoor, Sunlight Resistance |
| Sustainability:                  | CA Prop 65                          |
| Flammability / Reaction to Fire: | OFNG-ST1, FT4                       |
| ICEA Compliance:                 | S-104-696                           |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.26 Revision Date: 11-14-2022 |
|----------------------|---|

## Part Numbers

### Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TT-1AD-024-H23N | Black | Reel       |

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