



**Product:** [TU-1LG-048-RI2](#)

Tray, In+Outdoor, MLT, OM1, 48f, Gel Tubes 2.8mm, AIA, Dbl Jkt - PVC & CPE, OFCR, Oil Res 1/2

### Product Description

DataTuff Tray, Indoor/Outdoor, Multi-Loose-Tube, OM1, 48 Fibers, Gel Filled Tubes 2.8mm, Aluminum Interlock Armor, Double Jacket - PVC Inner / CPE Outer, OFCR, Oil Res 1 & 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, Rodent Proof |

#### Fiber Specifications

|                      |                  |
|----------------------|------------------|
| Fiber Type:          | OM1              |
| Fiber Core Diameter: | 62.5/125 $\mu$ m |
| Fiber Diameter:      | 250 $\mu$ m      |
| Fiber Count:         | 48               |
| Fiber Color Coding:  | TIA-598-D        |

#### Cable Construction

|                            |                    |
|----------------------------|--------------------|
| Number of Active Subunits: | 4                  |
| Number of Fillers:         | 1                  |
| 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 |

#### Inner Jacket Specifications

|                  |                            |
|------------------|----------------------------|
| Strength Member: | Waterblocking Aramid Yarns |
| Material:        | PVC - Polyvinyl Chloride   |
| Nom. Diameter:   | 0.454 in (11.5 mm)         |
| Color:           | Black                      |

#### Armor Specifications

|                          |                                |
|--------------------------|--------------------------------|
| Armor Type and Material: | AIA - Aluminum Interlock Armor |
|--------------------------|--------------------------------|

#### Outer Jacket Specifications

|                |                    |
|----------------|--------------------|
| Nom. Diameter: | 0.765 in (19.4 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)            |
| Max. Tensile Strength During Operation:    | 800 N (180 lbf)         |
| Crush Resistance:                          | 440 N/cm                |
| Bulk Cable Weight:                         | 231 lbs/kft (344 kg/km) |

## Temperature Range

|                                 |                |
|---------------------------------|----------------|
| Installation Temperature Range: | -10°C to +60°C |
| Operating Temperature Range:    | -50°C to +70°C |
| Storage Temperature Range:      | -50°C to +70°C |

## Standards and Compliance

|                                  |   |
|----------------------------------|---|
| Environmental Suitability:       | Sunlight Resistance, Oil Resistance, Burial |
| Sustainability:                  | CA Prop 65                                  |
| Flammability / Reaction to Fire: | OFRC, FT4                                   |
| ICEA Compliance:                 | S-104-696                                   |

## History

|                      |   |
|----------------------|---|
| Update and Revision: | Revision Number: 0.27 Revision Date: 11-14-2022 |
|----------------------|---|

## Part Numbers

### Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TU-1LG-048-RI2N | Black | Reel       |

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