



**Product:** [TU-1LG-144-R22](#)

Tray, In+Outdoor, MLT, OM1, 144f, Gel Tubes 2.8mm, Dbl Jkt - PVC & CPE, OFNR, Oil Res 1/2

## Product Description

DataTuff Tray, Indoor/Outdoor, Multi-Loose-Tube, OM1, 144 Fibers, Gel Filled Tubes 2.8mm, Double Jacket - PVC Inner / CPE Outer, OFNR, 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 |

### Fiber Specifications

|                      |                  |
|----------------------|------------------|
| Fiber Type:          | OM1              |
| Fiber Core Diameter: | 62.5/125 $\mu$ m |
| Fiber Diameter:      | 250 $\mu$ m      |
| Fiber Count:         | 144              |
| Fiber Color Coding:  | TIA-598-D        |

### Cable Construction

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

### Inner Jacket Specifications

|                |                          |
|----------------|--------------------------|
| Material:      | PVC - Polyvinyl Chloride |
| Nom. Diameter: | 0.626 in (15.9 mm)       |
| Color:         | Black                    |

### Outer Jacket Specifications

|                |                    |
|----------------|--------------------|
| Nom. Diameter: | 0.761 in (19.3 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: | 15x 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:                          | 220 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:       | Indoor/Outdoor, Sunlight Resistance, Oil Resistance |
| Sustainability:                  | CA Prop 65                                          |
| Flammability / Reaction to Fire: | OFNR, FT4                                           |

History

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

Part Numbers

Variants

| Item #          | Color | Putup Type |
|-----------------|-------|------------|
| TU-1LG-144-R22N | Black | Reel       |

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