

# 96-144 Fiber Dry Loose Tube Indoor-Outdoor Cable, Riser

[www.TheLightConnection.com](http://www.TheLightConnection.com)

## Features and Benefits

- Gel-Free waterblocked design
- UV protected rugged jacket
- 96 & 144 fiber count
- Available in all fiber types

## Description

The Light Connection, Inc. multi-tube Dry Loose Tube Cable is composed of eight and twelve buffer tubes, water blocking yarn, a central strength member, an aramid ripcord, and a PVC outer jacket. Each buffer tube consists of a 12 colored bare optical fibers and water-swellable yarn with a PVC jacket 2.5mm in diameter. All component materials meet the EU RoHS and REACH Directive standards. Buffer tubes may be color-coded or sequentially numbered.

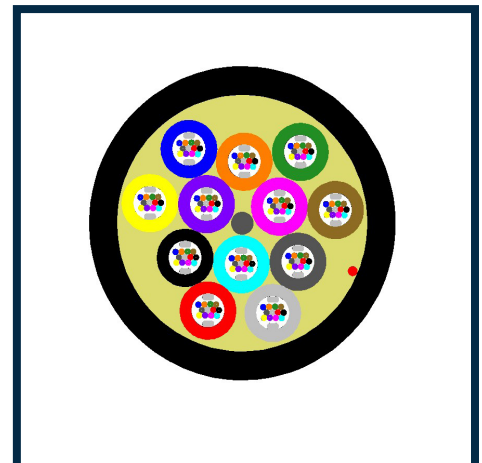
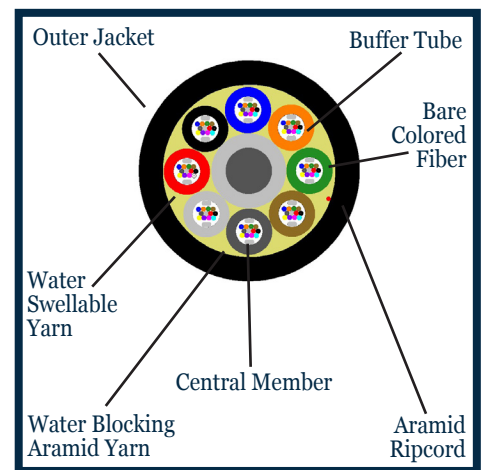
TLC Dry Loose Tube is available in carbon black or special-order colors(including 12 TIA standard colors). UL Listed OFNR cables are available, and unrated cables can be supplied to accommodate special needs. Standard surface print denotes construction, NEC rating, and fiber type, and includes footage markers. Custom print may also be accommodated.

## Application

Riser  
Duct  
Indoor/Outdoor

## Flame Rating

UL 1666  
UL 1685 (FT4)



# SPECIFICATIONS

## Temperature Range

|                       |                |
|-----------------------|----------------|
| Storage Temperature   | -40 C to +70 C |
| Operating Temperature | -40 C to +70 C |

## Cable Characteristics

|                                    |                                    |
|------------------------------------|------------------------------------|
| Fiber Count                        | 96/144                             |
| Outer Jacket Material              | Flame Retardant PVC                |
| Buffer Tubes                       | Flame Retardant PVC                |
| Strength Member                    | Aramid Yarn                        |
| Central Strength Member            | Fiber Reinforced Rod               |
| Coating on Central Strength Member | Flame Retardant PVC(if Applicable) |

## Physical Characteristics

|  | Value (96/144 fiber count) |
|--|----------------------------|
| Nominal Outer Diameter (mm)            | 12.0/13.0                  |
| Weight (lbs/ km)                       | 287 /309                   |
| Minimum Bend Radius, Installation (cm) | 18.0/19.5                  |
| Minimum Bend Radius, Operation (cm)    | 12.0/13.0                  |

## Optical Characteristics

| Items                                     | Single Mode                        | OM1                  | OM2                   | OM3                   | OM4 (OM4+)                 | OM5 (WB MMF)          |
|---|------------------------------------|----------------------|-----------------------|-----------------------|----------------------------|-----------------------|
| Core Size (µm)                            | 9                                  | 62.5                 | 50                    | 50                    | 50                         | 50                    |
| Wavelength [nm]                           | 1,310/1,550                        | 850/1,300            | 850/1,300             | 850/1,300             | 850/1,300                  | 850/1,300             |
| Max. Attenuation [dB/km]                  | 0.5/0.4                            | 3.5/1.5              | 3.5/1.5               | 3.0/1.0               | 3.0/1.0                    | 3.0/1.0               |
| Link Length [m]                           | 10,000/5,000<br>(1/10 Gb/s@1550nm) | 300<br>(1Gb/s@850nm) | 150<br>(10Gb/s@850nm) | 300<br>(10Gb/s@850nm) | 550(600)<br>(10Gb/s@850nm) | 550<br>(10Gb/s@850nm) |
| Bandwidth (EMB High Performance) [MHZ.km] |                                    | 220 @850             | 750 @850              | 2,000 @850            | 4,700 @850                 | 4,700 @850            |

## Part Numbers

| Fiber Count | Single Mode      | OM1              | OM2-OM5          |
|-------------|------------------|------------------|------------------|
| 96          | S09DL96**NRBL25  | M62DL96**NRBL25  | M50DL96**NRBL25  |
| 144         | S09DL144**NRBL25 | M62DL144**NRBL25 | M50DL144**NRBL25 |

| Fiber Type (9/125) | ** | Fiber Type (50/125) | ** | Fiber Type (62.5/125) | ** |
|--------------------|----|---------------------|----|-----------------------|----|
| SMF-28 Ultra       | CZ | ClearCurve OM2      | C2 | InfiniCor 300         | C3 |
| ClearCurve LBL     | C7 | Clear Curve OM3     | CG |                       |    |
| ClearCurve ZBL     | CC | ClearCurve OM4      | C4 |                       |    |
|                    |    | ClearCurve OM5      | C5 |                       |    |



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