



# SINGLEMODE, LOOSE TUBE SINGLE JACKET, ARMORED OPTICAL FIBER CABLE — 12-288 FIBERS

## DESCRIPTION

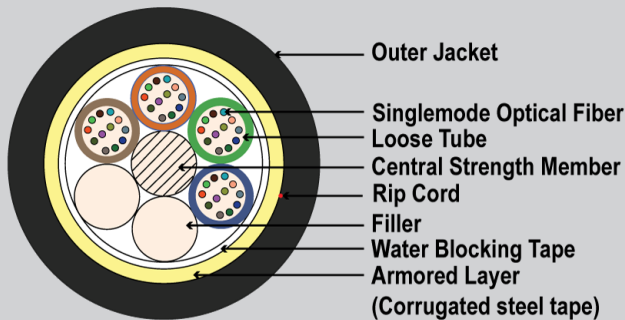
**Outside Plant Loose Tube Optical Fiber Cable — 12-288 Fibers Single Armor, Singlemode**

## FEATURES

- All-dry (Gel-free)
- Loose Tube
- Armored
- Direct Burial
- Color-Coded Fibers

## APPLICATIONS

- Outside Plant Installations
- Direct Burial
- Duct



(Representation of a standard 48 fiber construction)

### PART NUMBERS — 12-288 FIBERS

|            |                                      |
|------------|--------------------------------------|
| 261-11916B | 12 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11918B | 24 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11920B | 36 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11922B | 48 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11924B | 72 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11926B | 96 FIBERS LOOSE TUBE SINGLE-ARMORED  |
| 261-11928B | 144 FIBERS LOOSE TUBE SINGLE-ARMORED |
| 261-11930B | 288 FIBERS LOOSE TUBE SINGLE-ARMORED |

### Transmission Performance

|                      |                       |
|----------------------|-----------------------|
| Type of Fiber        | ITU-T G.652.D         |
| Mode Filled Diameter | 9.2±0.4 µm at 1310 nm |
| Maximum Attenuation  | 0.35 dB/km at 1310 nm |
|                      | 0.35 dB/km at 1383 nm |
|                      | 0.25 dB/km at 1550 nm |

### Installation Requirements — Mechanical & Environmental

|                  |  |
|------------------|--|
| Temperature      | Storage: -40 °F to +167 °F (-40 °C to +75 °C)      |
|                  | Installation: -22 °F to +140 °F (-30 °C to +60 °C) |
|                  | Operation: -40 °F to +158 °F (-40 °C to +70 °C)    |
| Min. Bend Radius | Loaded: 20 X Cable O.D.                            |
|                  | Unloaded: 10 X Cable O.D.                          |
| Tensile Strength | Installation: 2700 N (600 lbf)                     |
|                  | Long Term: 800 N (180 lbf)                         |

### Standards and Certifications

ITU-T G.650, IEC 60793, IEC 60794, RUS 7 CFR 1755, TELCORDIA GR-20, ISO 9001, ISO 14001, ANSI/TIA-568.3-D, TIA-598-D, OHSAS 18001



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Specs subject to change without notice.  
It is the sole responsibility of the user to have the most current specs.

| <b>Construction</b>                          |   |                        |                        |                        |                        |
|--|---|------------------------|------------------------|------------------------|------------------------|
| Fiber Count                                  | 12-72   | 84-96                  | 108-144                | 192-216                | 240-288                |
| Cable O.D. Nom.                              | 0.46 in (11.7 mm)   | 0.52 in (13.4 mm)      | 0.64 in (16.3 mm)      | 0.66 in (16.8 mm)      | 0.76 in (19.3 mm)      |
| Cable Weight Nom.                            | 80 lb/kft (120 kg/km)   | 104 lb/kft (155 kg/km) | 147 lb/kft (220 kg/km) | 158 lb/kft (235 kg/km) | 205 lb/kft (305 kg/km) |
| Fiber Color Coding per TIA-598-D             | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua  |                        |                        |                        |                        |
| Fiber Count per Tube                         | 12  |                        |                        |                        |                        |
| Tube Count per Cable                         | 6   | 8                      | 12                     | 18                     | 24                     |
| Tube Color Coding <sup>1</sup> per TIA-598-D | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua<br>Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black**, Yellow*, Violet*, Rose*, Aqua* |                        |                        |                        |                        |
| Tube Material                                | PBT(Polybutylene Terephthalate) or TPE(Thermal Poly Elastomer)  |                        |                        |                        |                        |
| Water Blocking Material                      | Water Swellable Yarn and Tape   |                        |                        |                        |                        |
| Central Strength Member                      | FRP (Fiber Reinforced Plastic)  |                        |                        |                        |                        |
| Stripping material                           | Ripcord   |                        |                        |                        |                        |
| Armoring material                            | Corrugated steel tape   |                        |                        |                        |                        |
| Jacket Material                              | Medium Density Polyethylene   |                        |                        |                        |                        |

<sup>1</sup>Tracer Color Coding:

\*: Tube with black tracer

\*\* : Tube with white tracer

