

# PRODUCT SPECIFICATION

## OUTDOOR ARMORED LOOSE TUBE CABLE

### INTRODUCTION

This cable is constructed of a steel wire strength member with water blocking tape and armored tape, which provides extraordinary protection to the fiber against harsh environment. This cable is suitable for installation in outdoor application experiencing wide range of temperature cycling.

### FEATURES & BENEFITS

- Steel tape provides robust protection to the fiber
- UV Resistance
- Moisture Resistance
- Water blocking
- PE outer sheath

### APPLICATION

- Outside Plant Environment
- Long Haul Networking
- Telecommunication Networks
- Industrial and heavy traffic areas

### MAXIMUM ATTENUATION

#### Single-mode

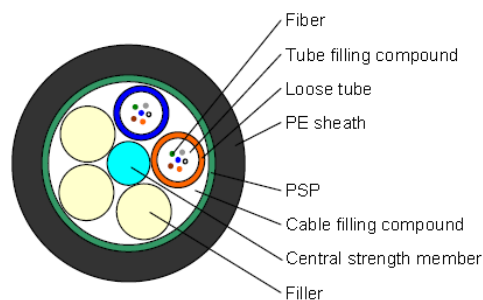
| Wavelength (nm) | Maximum Value* (dB/km) |
|-----------------|------------------------|
| 1310            | ≤ 0.35                 |
| 1550            | ≤ 0.35                 |

#### Multi-mode

| Wavelength (nm) | Maximum Value* (dB/km) |
|-----------------|------------------------|
| 850             | ≤ 3.5                  |
| 1300            | ≤ 1.5                  |



### CABLE STRUCTURE



### MODE-FIELD DIAMETER

#### Single-mode

| Wavelength (nm) | MFD (μm)   |
|-----------------|------------|
| 1310            | 9.2 ± 0.4  |
| 1550            | 10.4 ± 0.5 |

The information and specification in this document are subjected to change without notice



# PRODUCT SPECIFICATION

## OUTDOOR ARMORED LOOSE TUBE CABLE

### DIMENSIONAL SPECIFICATIONS

#### Single-mode

| Glass Geometry           |                                  | Coating Geometry               |                         |
|--------------------------|----------------------------------|--------------------------------|-------------------------|
| Fiber Curl               | $\geq 4.0$ m radius of curvature | Coating Diameter               | $242 \pm 5 \mu\text{m}$ |
| Cladding Diameter        | $125.0 \pm 0.7 \mu\text{m}$      | Coating-Cladding Concentricity | $< 12 \mu\text{m}$      |
| Core-Clad Concentricity  | $\leq 0.5 \mu\text{m}$           |                                |                         |
| Cladding Non-Circularity | $\leq 0.7\%$                     |                                |                         |

#### Multi-mode

| Glass Geometry           |                             | Coating Geometry               |                         |
|--------------------------|-----------------------------|--------------------------------|-------------------------|
| Core Diameter            | $50.0 \pm 2.5 \mu\text{m}$  | Coating Diameter               | $242 \pm 5 \mu\text{m}$ |
| Cladding Diameter        | $125.0 \pm 0.7 \mu\text{m}$ | Coating-Cladding Concentricity | $< 12 \mu\text{m}$      |
| Core-Clad Concentricity  | $\leq 1.5 \mu\text{m}$      |                                |                         |
| Cladding Non-Circularity | $\leq 1.0\%$                |                                |                         |

### SPECIFICATION & ORDERING PART NUMBER

| LUX PN      | FIBER COUNT | DIAMETER (mm) | TENSILE STRENGTH (N) |           | TEMPERATURE RANGE (°C) |           | CRUSH RESISTANCE (N/100) |           |
|-------------|-------------|---------------|----------------------|-----------|------------------------|-----------|--------------------------|-----------|
|             |             |               | INSTALLATION         | LONG TERM | INSTALLATION           | LONG TERM | INSTALLATION             | LONG TERM |
| OLC-XXX-004 | 4           | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-008 | 8           | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-012 | 12          | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-024 | 24          | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-036 | 36          | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-048 | 48          | 10.5          | 1500                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-072 | 72          | 11.5          | 2000                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-096 | 96          | 13.0          | 2000                 | 600       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-144 | 144         | 15.8          | 2500                 | 800       | -40 to 70              | -40 to 70 | 3000                     | 1000      |
| OLC-XXX-192 | 192         | 16.0          | 2500                 | 800       | -40 to 70              | -40 to 70 | 3000                     | 1000      |

\* Please specify fiber type when ordering (see below)

XXX=OM1/OM2/OM3/OM4/OM5/OS2

The information and specification in this document are subjected to change without notice

