

# PRODUCT SPECIFICATION

## INDOOR TIGHT BUFFERED DISTRIBUTION CABLE

### INTRODUCTION

The cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

### FEATURES & BENEFITS

- 900µm tight-buffered construction facilitates easier termination for low-fiber-count applications in the local area network (LAN)
- Can be installed in conduits and shafts inside buildings
- Compact structure and light in weight for easy handling and installation
- Full range of Single-mode and Multi-mode(OM1~OM5) fiber are available
- Low Smoke Zero Halogen outer sheath

### REFERENCE STANDARDS

- Flame Propagation: IEC 60332-1 & IEC 60332-3-24 (Category C)
- Smoke Emission: IEC 61034-2
- Corrosive & Acid gas Emission: IEC 60754-1 & IEC 60754-2
- Oxygen Index: ASTM 2863-D / ISO 4589-2
- ITU-T Rec. G.652.D (SM)
- IEC 60793-2-10 (MM)
- Color Coding: TIA/EIA-598

### APPLICATION

- Horizontal Distribution for FTTx
- In-building backbone
- Factory floor automation
- Data Center EDA areas

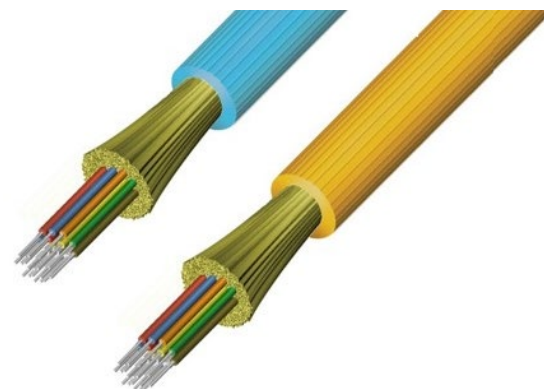
### MAXIMUM ATTENUATION

#### Single-mode

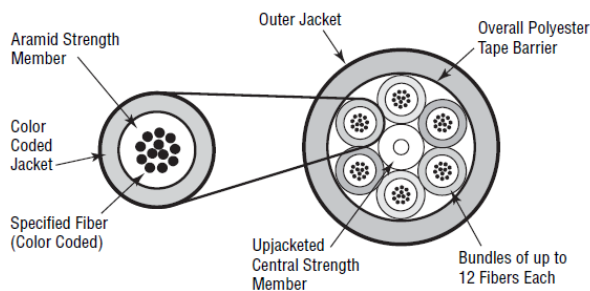
Wavelength (nm)	Maximum Value* (dB/km)
1310	≤ 0.35
1550	≤ 0.35

#### 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





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### DIMENSIONAL SPECIFICATIONS

#### Single-mode

Glass Geometry		Coating Geometry	
Fiber Curl	≥ 4.0 m radius of curvature	Coating Diameter	242 ± 5 μm
Cladding Diameter	125.0 ± 0.7 μm	Coating-Cladding Concentricity	< 12 μm
Core-Clad Concentricity	≤ 0.5 μm		
Cladding Non-Circularity	≤ 0.7%		

#### Multi-mode

Glass Geometry		Coating Geometry	
Core Diameter	50.0 ± 2.5 μm (OM2/3/4/5) 62.5 ± 2.5 μm (OM1)	Coating Diameter	242 ± 5 μm
Cladding Diameter	125.0 ± 0.7 μm	Coating-Cladding Concentricity	< 12 μm
Core-Clad Concentricity	≤ 1.5 μm		
Cladding Non-Circularity	≤ 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
IDC-XXX-004	4	4.8	300	150	-20 to 70	-20 to 60	1000	300
IDC-XXX-006	6	5.2	600	200	-20 to 70	-20 to 60	1000	300
IDC-XXX-008	8	5.6	600	200	-20 to 70	-20 to 60	1000	300
IDC-XXX-012	12	6.2	600	200	-20 to 70	-20 to 60	1000	300
IDC-XXX-024	24	8.2	1000	300	-20 to 70	-20 to 60	1000	300
IDC-XXX-036	36	15.0	1000	400	-20 to 70	-20 to 60	1000	300
IDC-XXX-048	48	15.0	1000	400	-20 to 70	-20 to 60	1000	300
IDC-XXX-060	60	20.0	1320	600	-20 to 70	-20 to 60	1000	300
IDC-XXX-072	72	21.0	1320	600	-20 to 70	-20 to 60	1000	300
IDC-XXX-096	96	25.8	1320	600	-20 to 70	-20 to 60	1000	300
IDC-XXX-144	144	29.4	1320	600	-20 to 70	-20 to 60	1000	300

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

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

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