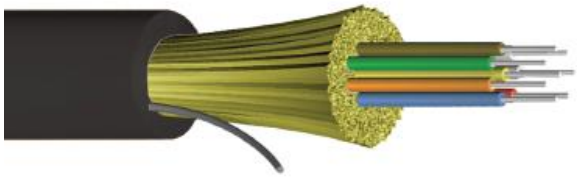
LUX COMMUNICATIONS
Let's Get Connected

PRODUCT SPECIFICATION
IN/OUTDOOR DISTRIBUTION CABLE

INTRODUCTION

Indoor/Outdoor Distribution Cables are specified for campus network cabling between buildings where interbuilding lengths are short enough that the installer can recognize saving from the lower costs of terminating tight buffer cables.

The indoor/Outdoor tight buffered distribution cable is also available for Plenum rated outer sheath in order to fulfill installation in spaces requiring UL flame ratings.



FEATURES & BENEFITS

- Water Block with glass yarns
- UV Resistance
- Moisture Resistance
- Low Smoke Zero Halogen outer sheath

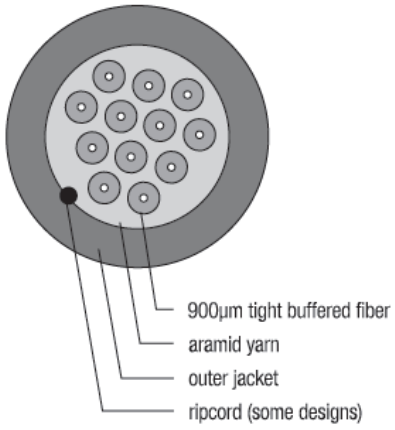
REFERENCE STANDARDS

- 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)

APPLICATION

- CATV & LAN
- Transportation, Industrial & Medical
- Telecommunication Networks
- Indoor & Outdoor Networks

CABLE STRUCTURE



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

MODE-FIELD DIAMETER

Single-mode

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

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DIMENSIONAL SPECIFICATIONS

Single-mode

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

Coating Geometry	
Coating Diameter	242 ± 5 µm
Coating-Cladding Concentricity	< 12 µm

Multi-mode

Glass Geometry	
Core Diameter	50.0 ± 2.5 µm
Cladding Diameter	125.0 ± 0.7 µm
Core-Clad Concentricity	≤ 1.5 µm
Cladding Non-Circularity	≤ 1.0%

Coating Geometry	
Coating Diameter	242 ± 5 µm
Coating-Cladding Concentricity	< 12 µm

SPECIFICATION

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
IOD-XXX-004	*4*	*4.8*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-006	*6*	*5.2*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-008	*8*	*5.8*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-012	*12*	*5.8*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-016	*16*	*7.2*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-024	*24*	*8.2*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-036	*36*	*17.0*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*
IOD-XXX-048	*48*	*17.0*	*1000*	*300*	*-20 to 70*	*-20 to 70*	*800*	*400*

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

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

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