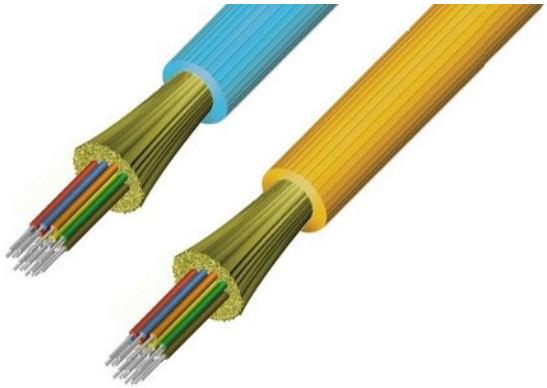
LUX COMMUNICATIONS
Let's Get Connected

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.



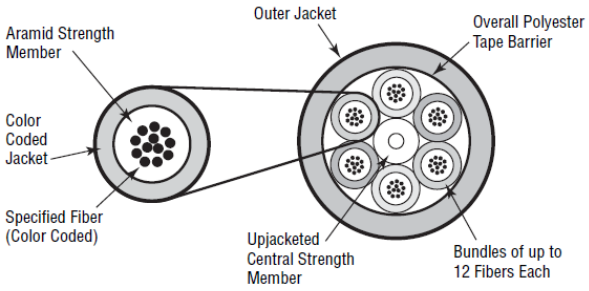
FEATURES & BENEFITS

- 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)
- IEC 60794-1

CABLE STRUCTURE



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

MODE-FIELD DIAMETER

Single-mode

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

RoHS compliant

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

Address: Unit A9, 8/F, NCB Innovation Centre, 888 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, HK

Ref: DS-F-OC-IDC-12

Tel : +852- 2808-1777 Fax: +852- 2808-1799 Website: www.lux-comms.com

Copyright © 2025 Lux Communications Limited. All right reserved.

LUX COMMUNICATIONS
Let's Get Connected

PRODUCT SPECIFICATION
INDOOR TIGHT BUFFERED DISTRIBUTION CABLE

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 (OM2/3/4/5) 62.5 ± 2.5 μm (OM1)
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 & 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

RoHS compliant

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

Address: Unit A9, 8/F, NCB Innovation Centre, 888 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, HK

Tel : +852- 2808-1777 Fax: +852- 2808-1799 Website: www.lux-comms.com

Copyright © 2026 Lux Communications Limited. All right reserved.