

PRODUCT SPECIFICATION

MINI DISTRIBUTION FIBER CABLE

INTRODUCTION

This cable is ideally designed for MTP or MPO termination with reducing size and weight while maintaining the compatibility of termination or splicing with traditional LC/SC/ST connectors. This cable is applicable for inter-building backbone, data centers, broadcast and AV in-building installation.

FEATURES & BENEFITS

- Slim cable construction facilitates easier installation 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 available
- Low Smoke Fire Retardant Zero Halogen outer sheath

REFERENCE STANDARDS

- TIA/EIA-568-D.3
- ISO/IEC 11801, 2nd Edition
- IEC 60332-1-2
- IEC 60332-3-24 Category C
- IEC 61034-2
- IEC 60754-1 & IEC 60754-2
- ITU-T Rec. G.652.D (SM)
- IEC 60793-2-10 (MM)

APPLICATION

- Horizontal Distribution
- Vertical installation
- In-building backbone
- Data Center

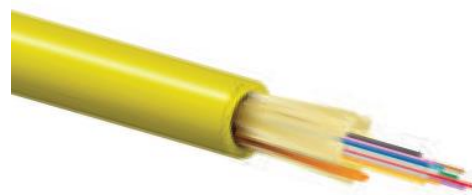
MAXIMUM ATTENUATION

Single-mode

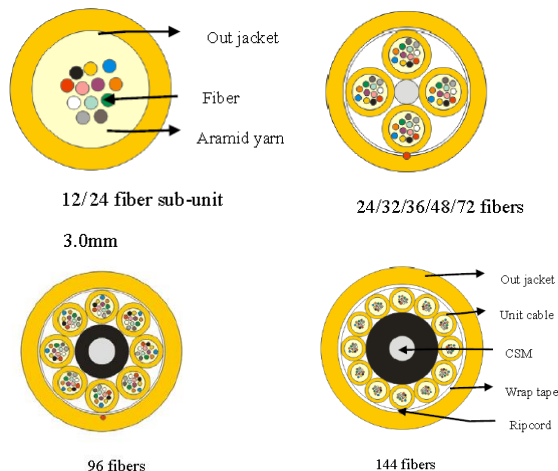
Wavelength (nm)	Maximum Value* (dB/km)
1310	≤ 0.35
1550	≤ 0.35

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

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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	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
MDC-XXX-008	8	3.0	200	100	-20 to 70	-20 to 60	500	150
MDC-XXX-012	12	3.0	200	100	-20 to 70	-20 to 60	500	150
MDC-XXX-024	24	3.0	200	100	-20 to 70	-20 to 60	500	150
MDC-XXX-S24	24	9.0	660	220	-20 to 70	-20 to 60	1000	300
MDX-XXX-060	48	9.0	660	220	-20 to 70	-20 to 60	1000	300
MDC-XXX-072	72	11.2	660	220	-20 to 70	-20 to 60	1000	300
MDC-XXX-096	96	13.5	660	220	-20 to 70	-20 to 60	1000	300
MDC-XXX-144	144	17.5	660	660	-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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