

# TopX MM LC Uniboot Reversible Patch Cord

## Description:

Part Number: OPTUB212-Length

Cable Dia.: 2.0mm

Cable Count: Duplex

Fiber Type: OM4

Jacket Color: VIOLET

Jacket Material: LSZH

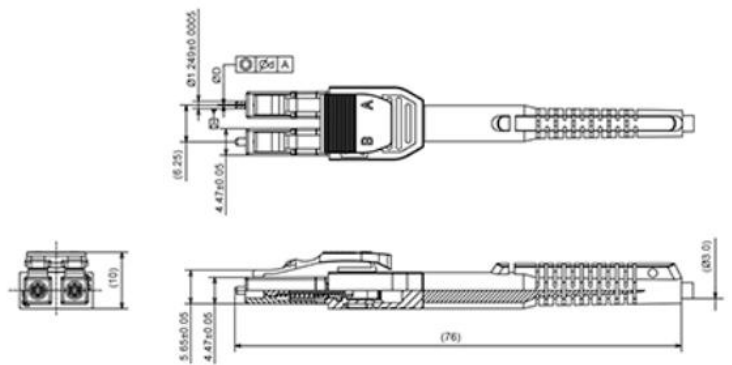
Cable Length: Available 0.5m, 1m, 1.5m, 2m, 3m, 5m, 7m, 10m, 15m, 20m, 25m, 30m...

Length Tolerance:  $\pm 0.1$ m

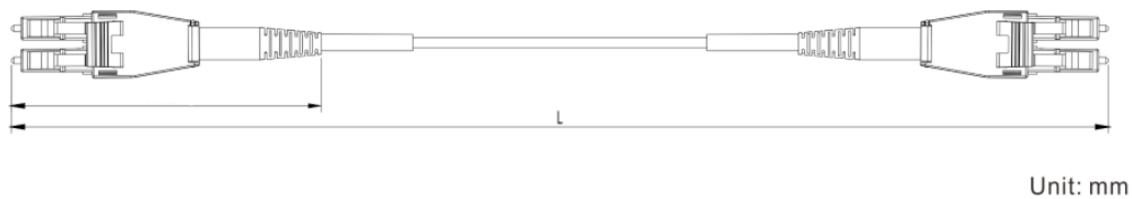


## Connector Drawing:

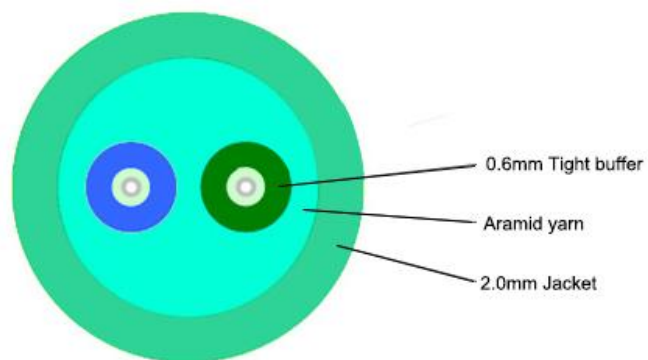
### LC Uniboot



## Patch Cord Drawing:



## Cable Drawing:



## Technical Specification:

### LC/UPC Connector

Insertion Loss:  $\leq 0.3\text{dB}$

Return Loss:  $\geq 25\text{dB}$

Material of Ferrule: ZrO<sub>2</sub> (Zirconia/Ceramic)

Ferrule Dia.:  $1.249 \pm 0.0005\text{mm}$

Operating Temperature:  $-20 \sim 70^\circ\text{C}$

Durability:  $>1000\text{times}$

## Optical Performance of Fiber OM4

Attenuation coefficient Loose tube Cables (Typical / Maximum)	
at 850 nm	2.2 / 3.5 dB/km
at 1300 nm	0.5 / 1.5 dB/km
Attenuation coefficient Tight Buffered Cables (Typical / Maximum)	
at 850 nm	2.5 / 3.5 dB/km
at 1300 nm	0.6 / 1.5 dB/km
Point of discontinuity at 1300 nm	$\leq 0.2$ dB
Zero dispersion wavelength	1295 – 1340 nm
Zero dispersion slope $1295 \leq \lambda \leq 1310$ nm	$\leq 0.105$ ps/(nm <sup>2</sup> ·km)
Zero dispersion slope $1310 \leq \lambda \leq 1340$ nm	$\leq 0.000375 \cdot (1590 - \lambda)$ ps/(nm <sup>2</sup> ·km)
Numerical Aperture	$0.200 \pm 0.015$
Effective group index of refraction at 850 nm	1.483
Effective group index of refraction at 1300 nm	1.478

### Performance Characteristics

Bandwidth (Overfilled launch)	
at 850 nm	$\geq 3500$ MHz·km
at 1300 nm	$\geq 500$ MHz·km
Effective Modal Bandwidth (EMB) at 850 nm	$\geq 4700$ MHz·km
Transmission Link Lengths for 10 Gb/s1	
at 850 nm	550 m
at 1300 nm	300 m

### Geometrical Characteristics

Core diameter	$50 \pm 2.5$ $\mu$ m
Core non-circularity	$\leq 5.0$ %
Core/Cladding concentricity error	$\leq 1$ $\mu$ m
Cladding diameter	$125.0 \pm 1.0$ $\mu$ m
Cladding non-circularity	$\leq 1.0$ %
Primary coating diameter (uncoloured fibre)	$242 \pm 7$ $\mu$ m
Primary coating diameter (coloured fibre)	$250 \pm 10$ $\mu$ m
Coating-Cladding concentricity	$\leq 10$ $\mu$ m

### Macrobending loss

100 turns, mandrel diameter 75 mm at 850 nm	$\leq 0.05$ dB
100 turns, mandrel diameter 75 mm at 1300 nm	$\leq 0.15$ dB
2 turns, mandrel diameter 30 mm at 850 nm	$\leq 0.1$ dB
2 turns, mandrel diameter 30 mm at 1300 nm	$\leq 0.3$ dB
2 turns, mandrel diameter 15 mm at 850 nm	$\leq 0.2$ dB
2 turns, mandrel diameter 15 mm at 1300 nm	$\leq 0.5$ dB

### Mechanical Characteristics

Proof test level	$\geq 0.69$ Gpa ( $\geq 8.8$ N)
Coating strip force	1.9 N
Dynamic fatigue resistance parameter	$\geq 23$