

**FPC-OM2LCLCD0.5M**

## Description

Osilan's fibre optic patch cords are the optimal choice for Enterprise inter-connect, data centre and cross-connect applications. Patch cords complete connectivity from active equipment to passive optical equipment in main or distribution rack rooms. Fibre optic patch cords are available in OM2, OM3, OM4 or OS2 fibre types terminated with ultra-physical contact (UPC) zirconia ferrule connectors to meet the demands of all Ethernet applications.



## Features

- Duplex jacketed zip cord tight buffered.
- Standard low-insertion loss connectors.
- Halogen-free, flame-retardant LSZH jacket.
- Ferrules of Zirconia ceramic with high performance.
- Both Connectors A and B are ultra-physical contacts (UPC).

## Standards

- ISO 11801 2nd Edition
- EN 60332-1
- ANSI/ICEA S-83-596
- TIA 568 C.3
- IEC 61034-2
- CSA FT4
- EN 50173
- IEC 60794-2
- CSA FT6
- EN 50575: Euroclass Eca

### Mechanical and Environmental Characteristics

|                        |                             |
|------------------------|-----------------------------|
| Cable outside diameter | 3mm Simplex<br>1.8mm Duplex |
| Cable retention        | 50N                         |
| Endurance              | 500 mating cycles           |
| Minimum Bend radius    | 30mm Simplex<br>18mm Duplex |
| Temperature range      | -20°C to +60°C              |
| Operating Temperature  | -40°C to +70°C              |
| Storage Temperature    | -40°C to +70°C              |

### Cable & Connector Parameters

| Items                 | Specifications   |
|-----------------------|--|
| <b>Connector</b>      |  |
| LC Connector          | Blue   |
| Boot                  | white  |
| SC Connector          | Blue   |
| Boot                  | Blue   |
| FC Connector          | metal  |
| Boot                  | Black  |
| ST Connector          | metal  |
| Boot                  | Red / Black  |
| <b>Cable</b>          |  |
| Simplex               | 1 fiber core   |
| Duplex                | 2 fiber cores  |
| water-blocking system |  |
| Material              | Aramid Yarn  |
| Outer Jacket          |  |
| Material              | LSZH   |
| Colour                | OS2: Yellow<br>OM2: Orange<br>OM3: Aqua<br>OM4: Violet |

### Fibre Parameters

| Items                                | Specifications  |
|--------------------------------------|---|
| Cladding Diameter                    | 124.8±0.7 µm  |
| Cladding Non-Circularity             | ≤0.7%   |
| Core-Cladding Concentricity Error    | ≤0.5 µm   |
| Coating Diameter                     | 245±5 µm  |
| Coating Non-Circularity              | ≤6.0%   |
| Cladding-Coating Concentricity Error | ≤12.0 µm  |
| ITU-T Standards                      | G.652.D or G.657.A1 for SM<br>G.651.1 for MM                    |
| Attenuation                          | 1310nm ≤0.36 dB/km  |
|                                      | 1550nm ≤0.25 dB/km  |
|                                      | 850 nm ≤3 dB/km<br>1300nm ≤1 dB/km                              |
| connector insertion loss             | < 0.5 dB (Standard Multimode)<br>< 0.3 dB (Standard Singlemode) |
| connector return loss                | > 40 dB (Standard Multimode)<br>> 50 dB (Standard Singlemode)   |

### ORDERING INFORMATION

| Part No.         | Description  |
|------------------|--|
| FPC-OM2LCLCD0.5M | LC/UPC to LC/UPC, Duplex fibre optic patch cords, OM2, 1.8mm jacket, Orange, low smoke zero halogens (LSZH), 0.5 meter |