

## Part No. LCMM200

### Cable Description

Large Core Multi-mode Optical Fiber (200/230  $\mu\text{m}$ )

The large core multimode fiber has high NA and a large core. With high NA and large core, the fiber has higher coupling efficiency and can collect higher power from sources than standard single-mode or graded-index fibers. With the accurate control of index profile by PCVD process, the bandwidth is better than fibers manufactured with other processes.

### Application

Local-area network, Sensors, Laser Power delivery, Medical systems, Optical device and connectors, Data Communication in consumer electronics

### Process and Coating

Uninet fibers are manufactured using the advanced Plasma Activated Chemical Vapor Deposition (PCVD) process. Because of the inherent advantages of the process, Uninet fibers show extremely refined refractive index (RI) profile control, excellent geometrical performance, low attenuation, etc.

### Cable Characteristic

- Efficient coupling to LED and laser sources
- High bandwidth and low attention at 850 nm and 1300 nm
- Capable of handing high powers
- Dual UV-Cured Acrylate Coating offering good protection
- Excellent strip ability

### Customer Variation

Available in a range of NA, core size and index profile to meet customer requirement

# LCMM200

## Fiber Core Performance

| Characteristics                      | Conditions | Specified Values  |                   | Units         |
|--------------------------------------|------------|-------------------|-------------------|---------------|
| <b>Optical characteristics</b>       |            | <b>200/230-37</b> | <b>200/230-40</b> |               |
| Numerical Aperture (calculated)      |            | 0.36±0.40         | 0.40±0.45         |               |
| Attenuation                          | 850 nm     | <7.0              | <6.0              | [dB/km]       |
| Bandwidth                            | 850 nm     | >20               | >100              | [MHz·km]      |
| Index Profile                        |            | Step Index        | Graded Index      |               |
| <b>Geometrical characteristics</b>   |            |                   |                   |               |
| Core diameter                        |            | 200±4             | 200±4             | [µm]          |
| Cladding diameter                    |            | 230+0/-10         | 230+0/-10         | [µm]          |
| Coating diameter                     |            | 500±30            | 500±30            | [µm]          |
| Coating/cladding concentricity error |            | ≤5.0              | ≤5.0              | [µm]          |
| <b>Mechanical characteristics</b>    |            |                   |                   |               |
| Proof test                           | off line   | >75<br>>16.3      | >75<br>>16.3      | [KPSI]<br>[N] |
| Delivery length (km/reel)            |            | ≥0.8 ≤4.4         | ≥0.8 ≤4.4         | [km]          |

**Remarks:**

1. Specification for attenuation and bandwidth varies with measurement conditions.
2. Other fiber lengths are available on request.
3. Other proof test is available.