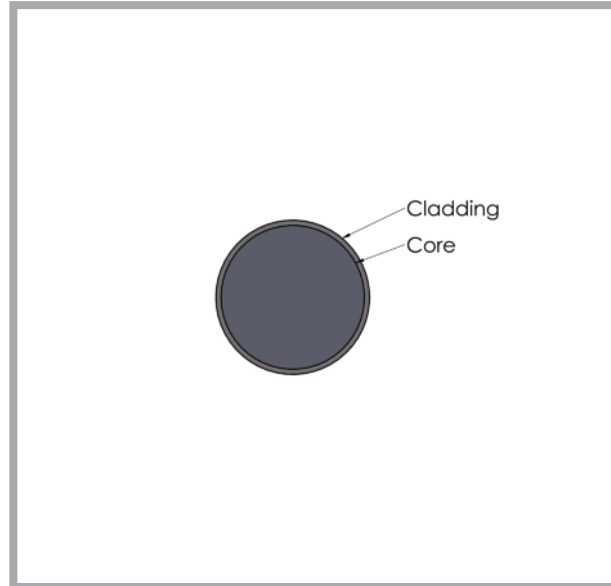
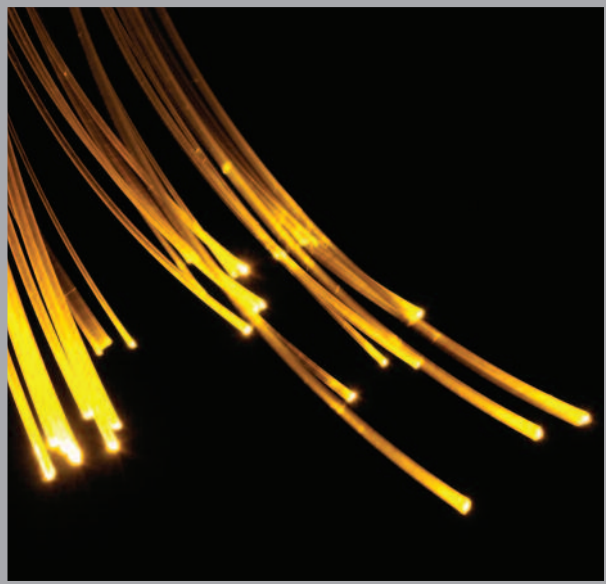


## Unsheathed Single Core End Lit PMMA Fiber



### Single strand optical fiber without a sheath

Universal Fiber Optics supplies high quality single core unsheathed fiber on reels. Suitable for use in indoor, outdoor and submersible applications.

### Product Specifications

**Core material:** Polymethyl Methacrylate

**Cladding material:** Fluorinated Polymer

**Refractive index:** 1.49

**Numerical aperture:** 0.5

**Refractive index profile:** step index

**Operation temperature range:** -55°C to +70°C in low humidity; <60°C at 95% RH (attenuation change is within 10% after 1000 hours except for that due to absorbed water). Please note that fibre can become brittle at lower temperatures.

| Product Code | Outer Diameter | Outer Diameter Tolerance | Reel Length     | *Approximate Weight | Min. Bend Radius | **Approximate Transmission Loss |
|--------------|----------------|--------------------------|-----------------|---------------------|------------------|---------------------------------|
| CK10U        | 0.25mm (0.01") | ±0.023mm (0.001")        | 12000m (39370') | 0.06g/m             | 5mm (0.2")       | 350 dB/km                       |
| CK20U        | 0.50mm (0.02") | ±0.030mm (0.001")        | 6000m (19685')  | 0.4g/m              | 10mm (0.39")     | 250 dB/km                       |
| CK30U        | 0.75mm (0.03") | ±0.045mm (0.002")        | 2700m (8858')   | 0.9g/m              | 15mm (0.59")     | 200 dB/km                       |
| CK40U        | 1.00mm (0.04") | ±0.060mm (0.002")        | 1500m (4921')   | 1.5g/m              | 20mm (0.79")     | 200 dB/km                       |
| CK60U        | 1.50mm (0.06") | ±0.090mm (0.004")        | 700m (2296')    | 3.2g/m              | 30mm (1.18")     | 200 dB/km                       |
| CK80U        | 2.00mm (0.08") | ±0.120mm (0.005")        | 250m (820')     | 4.0g/m              | 40mm (1.57")     | 200 dB/km                       |

\*without packaging    \*\*in ideal conditions, 650nm collimated light