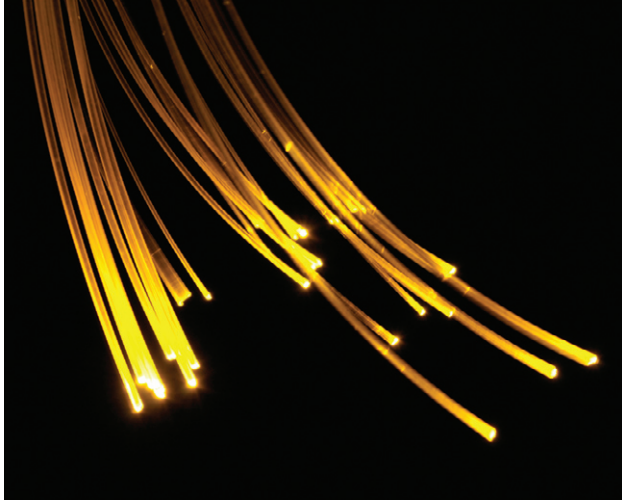


## Bulk Unsheathed PMMA Fiber on Reels



UFO Lighting operate 3 of the fastest coating lines for fiber optic lighting cable.

Our range of standard PMMA fiber is available in either single or multi-strand configurations. We can also make custom harnesses with larger diameter fiber if required.

Our PMMA fiber products are manufactured from Mitsubishi/ESKA raw fiber. We are an officially authorised supplier of Mitsubishi fiber products.

End lit PMMA fiber comes in two configurations - single sheathed or unsheathed strands of 0.75mm, 1mm, 1.5mm or 2mm diameter fiber, or as multiple sheathed strands of 0.75mm fiber.

Most products are held in stock for quick delivery. If stated reel sizes are unsuitable for your application, please contact us to discuss your requirements as we carry other sizes in stock.

Larger diameters are available on request with soft silicone at the ends of the tails for use when articulated fittings are used in a tight space for the fiber bend radius.

### TECHNICAL INFORMATION

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 fiber can become brittle at lower temperatures.
Sheathing Specifications	Outer sheathing material TP519 is a thermoplastic low-smoke halogen-free flame retardant compound with low toxic fume emission.
TP519 Toxicity Index (NES713)	1.3
TP519 Halogen Acid Gas Evolution (BS EN 50267-2-1)	<0.5%
TP519 Smoke Emission 3m Cube Test (BS 7622)	Pass

## PRODUCT ORDERING CODES

Ordering Code	Fibre Diameter	Diameter Tolerance	Small Reel Length	Large Reel Length	Approx Weight	Min. Bend Radius	Approx Transmission Loss
CK10U	0.25mm	±0.023mm	12000m (39370')	-	0.06g/m	5mm (0.2")	350dB/km
CK20U	0.5mm	±0.03mm	6000m (19685')	-	0.4g/m	10mm (0.4")	250dB/km
CK30U	0.75mm	±0.045mm	2700m (8858')	9000m (29527')	0.9g/m	15mm (0.6")	200dB/km
CK40U	1.0mm	±0.06mm	1500m (4921')	5250m (17224')	1.5g/m	20mm (0.8")	200dB/km
CK60U	1.5mm	±0.09mm	700m (2296')	2150m (7054')	3.26g/m	30mm (1.2")	200dB/km
CK80U	2.0mm	±0.12mm	250m (820')	1100(3609')	4.06g/m	40mm (1.6")	200dB/km



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