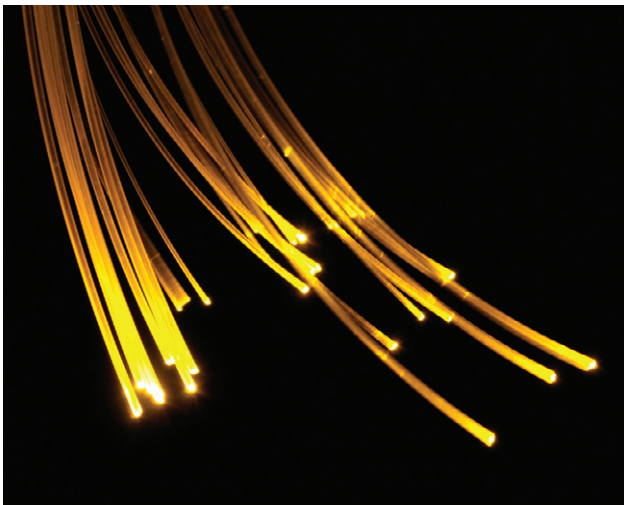


PRODUCT SPECIFICATION SHEET

Bulk Unsheathed PMMA Fibre on Reels



Rev. C3



Universal Fibre Optics operate 3 of the fastest coating lines for fibre optic lighting cable.

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

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

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

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 fibre 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 fibre 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	-	0.06g/m	5mm	350dB/km
CK20U	0.5mm	±0.03mm	6000m	-	0.4g/m	10mm	250dB/km
CK30U	0.75mm	±0.045mm	2700m	9000m	0.9g/m	15mm	200dB/km
CK40U	1.0mm	±0.06mm	1500m	5250m	1.5g/m	20mm	200dB/km
CK60U	1.5mm	±0.09mm	700m	2150m	3.26g/m	30mm	200dB/km
CK80U	2.0mm	±0.12mm	250m	1100m	4.06g/m	40mm	200dB/km



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