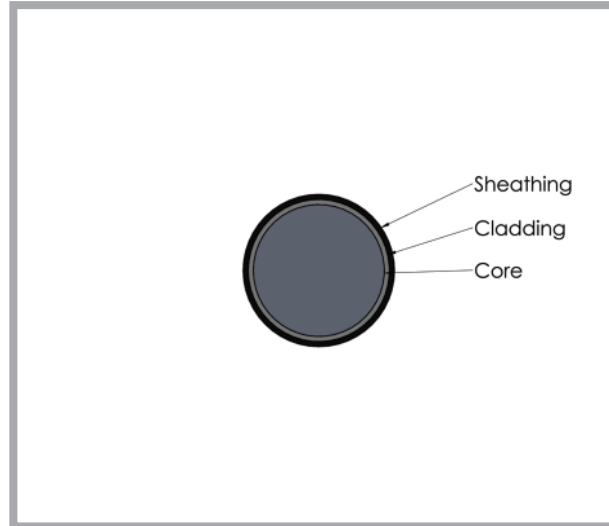


## Sheathed Single Core End Lit PMMA Fiber



### Single strand optical fiber with a black sheath

Universal Fiber Optics supplies high quality sheathed single core fiber for supply on reels. The sheathing protects the fibre in arduous conditions. Suitable for use in indoor, outdoor and submersible applications.

### Fibre 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.

### 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 Code	Fibre Diameter	Outer Diameter (sheathing)	Outer Diameter Tolerance	Reel Length	*Approximate Weight	Min. Bend Radius
CK30S	0.75mm (0.03")	2.0mm (0.08")	±0.3mm (0.01")	2700m (8858.3')	3.9g/m	20mm (0.79")
CK40S	1.00mm (0.04")	2.2mm (0.09")	±0.3mm (0.01")	1500m (4921.3')	4.9g/m	25mm (1")
CK60S	1.50mm (0.06")	2.6mm (0.10")	±0.3mm (0.01")	700m (2296.6')	6.6g/m	40mm (1.57")
CK80S	2.00mm (0.08")	3.1mm (0.12")	±0.4mm (0.02")	250m (820.2')	12.8g/m	60mm (2.36")

\*without packaging