

Specifier's Reference
Project
Type
Model No.
Comments or Special Instructions

ILLUMINATI'S UNSHEATHED SINGLE CORE END LIT POLYMER FIBER

SINGLE STRAND OPTICAL FIBRE WITHOUT A SHEATH

Illuminati supplies high quality single core unsheathed fibre on reels. Suitable for use in indoor, outdoor and submersible applications.

FIBER 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.



Size	Outer Diameter	Outer Diameter Tolerance	Reel Length	*Approx. Weight	Minimum Bend Radius	**Approx. Transmission Loss
CK10U	0.25mm	±0.023mm	12000m	0.06g/m	5mm	350 dB/km
CK20U	0.50mm	±0.030mm	6000m	0.4g/m	10mm	250 dB/km
CK30U	0.75mm	±0.045mm	2700m	0.9g/m	15mm	200 dB/km
CK40U	1.00mm	±0.060mm	1500m	1.5g/m	20mm	200 dB/km
CK60U	1.50mm	±0.090mm	700m	3.2g/m	30mm	200 dB/km
CK80U	2.00mm	±0.120mm	250m	4.0g/m	40mm	200 dB/km

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