

ILLUMINATI'S POLYMER FIBER HARNESS

OPTICAL FIBER HARNESSES WITH A BLACK SHEATHING

Strands of fibre in a black plastic coating which holds the bundle together and protects the fibre in arduous conditions. The fibre can be terminated with ferrules for use with end fittings. For starry effects the sheathing can be stripped back and the individual fibres fanned out to give small points of light.

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.

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

Specifier's Reference

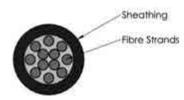
Project

Type

Model No.

Comments or Special Instructions





Number of fibre strands varies by product

mm .5mm	unsheathed / 2.2mm	1100 560 250	10mm / 15mm 15mm / 20mm	- / crimp
.5mm			15mm / 20mm	- / crimp
	unsheathed / 2.6mm	350		•
mm		230	25mm / 40mm	- / crimp
	unsheathed / 3mm	150	30mm / 60mm	- / crimp
.3mm	4.5mm	115	20mm	- / M8 / M10 ferrule
.1mm	4.5mm	65	25mm	- / M8 / M10 ferrule
.3mm	6.3mm	38	30mm	- / M8 / M10 ferrule
mm	7.1mm	25	50mm	- / M8 / M10 ferrule
mm	8.7mm	17	60mm	- / M8 / M10 ferrule
mm	10.5mm	12	80mm	- / M10 ferrule
.5mm	10.5mm	11	90mm	- / M10 ferrule
mm	10.5mm	10	100mm	- / M10 ferrule
r	3mm 1mm 3mm nm nm nm	3mm 4.5mm 1mm 4.5mm 3mm 6.3mm nm 7.1mm nm 8.7mm nm 10.5mm 5mm 10.5mm	3mm 4.5mm 115 1mm 4.5mm 65 3mm 6.3mm 38 nm 7.1mm 25 nm 8.7mm 17 nm 10.5mm 12 5mm 10.5mm 11	3mm 4.5mm 115 20mm 1mm 4.5mm 65 25mm 3mm 6.3mm 38 30mm nm 7.1mm 25 50mm nm 8.7mm 17 60mm nm 10.5mm 12 80mm 5mm 10.5mm 11 90mm





