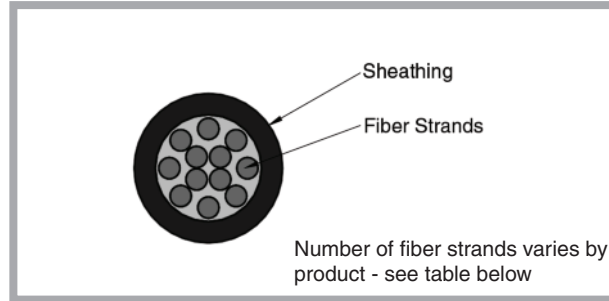


Sheathed Multi-stranded End Lit PMMA Fiber



Multi-stranded optical fiber with a black sheath

Multiple strands of fiber in a black plastic coating which holds the bundle together and protects the fiber in arduous conditions. The fiber can be terminated with ferrules for use with end fittings. For starry effects the sheathing can be stripped back and the individual fibers 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

Product Code	Number of Strands	Individual Strand Diameter	Approximate Active Diameter	Approximate Outer Diameter	Minimum Bend Radius	Full Reel Length
4EG075	4	0.75mm (0.03")	1.9mm (0.04")	3.0mm (0.12")	20mm (0.79")	500m (1640')
7EG075	7	0.75mm (0.03")	2.3mm (0.09")	4.5mm (0.18")	25mm (1")	500m (1640')
12EG075	12	0.75mm (0.03")	3.1mm (0.12")	4.5mm (0.18")	25mm (1")	300m (984.2')
25EG075	25	0.75mm (0.03")	4.3mm (0.17")	6.3mm (0.25")	30mm (1.18")	300m (984.2')
33EG075	33	0.75mm (0.03")	5.0mm (0.2")	7.1mm (0.28")	50mm (2")	200m (656.2')
50EG075	50	0.75mm (0.03")	6.0mm (0.24")	8.7mm (0.34")	60mm (2.36")	150m (492.1')
75EG075	75	0.75mm (0.03")	7.5mm (0.29")	10.5mm (0.41")	80mm (3.15")	100m (328.1')
88EG075	88	0.75mm (0.03")	8.0mm (0.31")	10.5mm (0.41")	90mm (3.54")	100m (328.1')
100EG075*	100	0.75mm (0.03")	8.4mm (0.33")	12.0mm (0.47")	100mm (3.94")	100m (328.1')

*100EG075 is to special order only. It requires a 1/2" ferrule and does not fit into our standard Ezefix ferrules.