Fibres and cables.

PMMA

Side Lighting Cables

The cables are integrally sheathed with PVC. Cables are rated for continuous immersion in water. The sheath is UV stabilised and resistant to attack by algae and fungae. Maintain minimum bending radius of 80mm (100mm preferred, especially if there are a large number of bends).

Artwrap

An exciting new sidelighting mesh. Must be protected when used outdoors on a permanent basis. May be stretched out to form shapes or cover formers.

Maximum width 100mm
Minimum width 20mm
Reduction in length at maximum width 20%

End Lighting Cables

Bare/Unjacketed monofilament fibres.

Raw fibres are suitable for situations where the fibre can be installed without danger of sctratching and damaging the fibre and where future protection is not required.

Jacketed Fibre/Cables

Jacketed fibres are integrally sheathed to provide mechanical protection.
The cables are integrally sheathed with PVC or Polyethelene. They are suitable for direct embedment in mortar, soil or sand beds, as long as care is taken to avoid crushing, cutting or kinking of cables.
Cables are rated for continuous immersion in water (cable ends must be sealed from water ingress).
Cables can be pulled through conduits and the like. They must not be installed continually under stress.
The minimum bending radius must be maintained, which is equal to 50 times the diameter of the individual fibres to avoid losing light. The physical size of the cable may also restrict the bend radius.
(For tight corners the fine multi-stranded (multiple 0.265mm) cables can be used with a bending radius of 25mm. (This is the LG-265 type)

We recommend that individual conduits to each location be used to facilitate repair (only normally required after gross deliberate vandalism or other damage). Many excellent systems have been installed by using direct embedment etc. Where conduits are used sweeping bends (not elbows) must be used.

Glass

We have a wide range of glass cables available for specialised applications such as museums and industrial use.

Solid core cables

Available in side and end light in . 13mm, 10mm and 5mm diameters
Minimum bending radius 8 x the diameter.

For more information please contact
lightmoves (03) 9701 2500
info@lightmoves.com.au
138-146 Browns Rd, Noble Park VIC 3174

Fibre and cable details

End Lighting Cables

MONOFILAMENT BARE FIBRE	Diameter	Equivalent in 0.75mm	Spool size	Minimum bend radius mm
PGR-FB750	0.75	1	2700M	38
PGR-FB1000	1.0	1.777	1500M	50
PGR-FB1500	1.5	4	700M	75
PGR-FB2000	2.0	7.111	350M	100
PGR-FB3000	3.0	16	150M	150
CORD				
CD1001	1.0	1.777	1000M	50
CD1002	2 x 1.0	2 x 1.777	500M	50
CD2001	2.0	7.111	300M	100

CABLE	Bundle diameter	Equivalent in 0.75mm	Outside Dia. (Note 1)	Minimum bend radius mm
LG265-48	2.1	6.0	3.0	22
LG265-64	2.4	8.0	3.3	25
LG500-32	3.2	14.22	4.2	35
LG-750-12	2.9	12	4.8	38
LG-750-25	4.2	25	5.5	38
LG-750-50	6.0	50	7.3	38
LG-750-75	7.3	75	8.7	38
LG-1000-48	7.8	85	12.0	60
LG-750-150	10.3	150	13.2	50
LG-1000-84	10.3	150	14.0	60
LG-750-225	12.6	225	16.3	80
LG-750-560	20.0	560	31.0	100

Note.1 Outside diameters are approximate only, and may vary.
Custom guides and special jacketing sytems to special order

Side Lighting Cables

	External diameter (Note 1)	Description
SG-750-14	5	14 parallel Fibres.
SG-750-23	Oval	For pool perimeter lighting.
SG-750-32	8	32 parallel fibres.
SG-750-42	9.5	42 twisted fibres.
SG-750-84	12-13	84 twisted fibres.
SG-750-126	16	126 twisted fibres.
SG-750-168	16	168 twisted fibres, high intensity.

Note 1. Outside diameters are approximate only, and may vary.
Note 2. Minimum bend radius 80mm, but >100mm recommended if there are several bends.

Artwrap

ARTWRAP 33 x 1mm fibre. 38M roll.

Solid core and Glass cables

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