

### Star Kit MS168 Contents

- 50W Tungsten Halogen Lightsource with colour wheel or twinkle wheel. Colour wheel can be stopped on one colour.
- 2 sets (small and large for different size fibre) of Acrylic Mushroom Lenses.
- Fibre optic harness with 168 tails of mixed diameter, for 'near and far' effect. Made up of 6 bundles, each containing 28 tails at lengths from 2m up to 3m @ either 0.75mm or 1mm diameter.

### Tools Required

- Hand drill
- 1mm drill bit (for bare fibre option)
- 3mm drill bit (for mushroom lens option)
- Translucent silicone sealant

### Safety Information

Our fibre optic lighting kits emit no heat or U.V. The end fittings are completely cold and have no electricity running through them, making them safe to touch and perfect for wet or humid environments where conventional lighting would be dangerous. Please be aware that the lightsource may become hot, and should be kept out of reach of children.

The lightsource is not waterproof and must be installed in a watertight location. IP rated enclosures are available if required.

### Prior to Installation

Decide on a suitable location for the lightsource. This should be in a water-tight and ventilated area, and access will be required approximately every 4000 hours for bulb replacement. The lightsource requires two 240v electrical supplies (household sockets).

Plug the harness into the lightsource to help decide whether you prefer the bare fibre effect or use the acrylic lenses. The overall effect of these options is different and is a matter of personal preference.

If you are using bare fibre, then a 1mm drill bit will suit both fibre sizes. A 3mm drill bit is required for the mushroom lens option.

Each bundle of tails is sheathed in a black Megalon material. Depending on the lightsource location, this can either be stripped back using a Stanley knife or removed completely by gently pulling it. For example, if all the longer tails are being fed in one direction, then the tails can remain in the sheath until they are required to branch of, keeping the installation tidy. If the lightsource is located in the middle of the area to be covered, then all the sheathing will need to be removed to allow the tails to branch of in different directions from the lightsource

The fibre optic tails can be placed randomly to create a star ceiling, or in any pattern of your choice. Tails can be installed in almost any material; wood, plasterboard, Perspex, concrete etc.

### Installation Guide

- If two people are available to carry out the installation, we recommend that one person drills up into the ceiling from underneath. A second person can then feed the fibre optic tails through each hole as it is drilled from the room below.
- If one person is carrying out the installation alone, all the required holes can be drilled from underneath, and then identified from above by shining a bright light up toward the ceiling.
- The tails should be allowed to protrude through the ceiling by approximately 80mm. For the bare tail option, a dab of silicone sealant should be applied to each tail, above the ceiling, to secure it in position. Note: silicone is not required for the mushroom lens option. We DO NOT recommend the use of superglue on the tails as it causes them to become brittle and prone to breakage, resulting in a loss of light. Unlimited Light accepts no responsibility for damage to fibre optic components during installation.
- If the ceiling is to be painted then this should be done after the installation of the fibre optics.
- For the bare tail option: you can now use either scissors or side cutters to trim back the tails so that they are almost flush with the ceiling. We recommend leaving around 2-3mm of fibre protruding so that the tails can be pulled with tweezers at a later date, should repainting be required.
- For the mushroom lens option: you can now push the lenses onto the fibre tails and then push the lenses into the ceiling.

