

Stage Lighting Patch Panel

Consultants Specification

General Description

The Stage Lighting Patch Panel shall be a wall mounted termination panel with 42 patch leads with Clipsal 463 piggy-back plugs fitted, for the connection to dimmer outlets. Pressure pad screw terminals shall be provided internally for the connection to load circuits. Each patch lead shall be a minimum of 1.5m long, 3 core 10 Amp black sheath flexible cable with large circuit numbers, minimum of 10mm height with bright yellow background with clear heatshrink over, located at the piggy-back plug end. Patch leads shall be arranged in groups of six circuits, sequentially numbered, and fastened to the main chassis by means of a cable gland or similar device. Cables shall enter through the bottom of the Patch Panel and shall be permanently wired to the internal screw terminals. The patch lead and plug shall hang freely beneath the Patch Panel when not in use.

The Patch Panel shall have a load test circuit located on the front panel, comprising a 10 Amp 3 pin Australian panel mount socket, high quality 10 Amp Ammeter and a 10 Amp Miniature Circuit Breaker.

Construction

The Patch Panel shall be designed to allow the easy removal of the front panel to expose all electrical wiring connections and mechanical mounting points. The device shall have dimensions not more than 484mm wide x 250mm high x 225mm deep and weigh no more than 15kgs. The wall mount chassis and front housing must be constructed from 1.6mm zinc-steel and finished in a durable powdercoat paint. Cable entry shall be provided by knock-out panels located on the rear panel and on top of the wall mount chassis. The design must allow for the provision for the device to be permanently fixed to walls, for 19" equipment rack mounting and to allow the fixing of standard 2" hook clamps to hang on trussing or hand rails with a safety chain connection point. The chassis shall provide future expansion for a further 6 patch leads to be installed in groups of 6 circuits. A single identification fascia shall be made from a hard-wearing polycarbonate with rear printing and be adhered to the front housing. Silkscreening or printing direct to the metal chassis will not be acceptable.

Power Requirements

The load test socket shall require a 10 Amp single phase supply to be installed by a licensed electrician as per the relevant standards or local laws. A separate 3 way terminal block shall be provided on the wall mount chassis for the connection of this supply and shall have a quick-disconnect socket for the easy removal of the load circuit when the front panel is removed.

Standard Features

The device shall provide, but not be limited to the following:

- 42 patch circuits with moulded Clipsal 463 plugs fitted
- Future expansion for a further 6 patch circuits
- Removable front cover to enable ease of mounting and wiring of load circuits
- Compact design to minimise wall space required
- Choice of 4 cable entry points with removable panels
- 10 Amp load test circuit with ammeter and overload protection
- Patch leads arranged in groups of six for quick circuit referencing when patching
- Fully compliant with CE and C Tick regulations

The Stage Lighting Patch Panel shall be an iPATCH from LSC Lighting Systems (Aust) Pty. Ltd., or approved equivalent.

This specification suitable for the following models – IPCH/42