

Case Study:

Standardised Cable Looms Power Smarter Stage Systems

The Problem

Our customer was designing state-of-the-art sound and lighting decks for major international tours, where reliability is critical. However, a lack of technical drawings and standardised cabling specifications made it difficult to evolve designs or adapt connectivity for different tour requirements. To continue innovating, they needed a more structured, engineered approach to their internal cable infrastructure.

The Solution

GTK worked closely with the customer to understand their power, signal and connectivity requirements across lighting and audio systems. From this, we created a fully documented cable loom kit and technical drawings that became a foundation for their deck designs. Our engineering team also applied Design for Manufacture (DFM) principles to ensure the looms were robust, efficient to build, cost-effective, and optimised for consistent lead times.

Key Benefits

Cost Efficiencies

By applying DFM principles from the outset, GTK reduced cable complexity and avoided excess material costs through our Core Material Strategy.

Time Saving

The streamlined designs improved manufacturing efficiency and reduced lead times, while the standardised cable kit significantly cut installation time.

Business Advantage

With a fully engineered cabling template in place, the customer gained a scalable foundation for future development, making it easier to introduce new features and system updates, and stay competitive.

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