

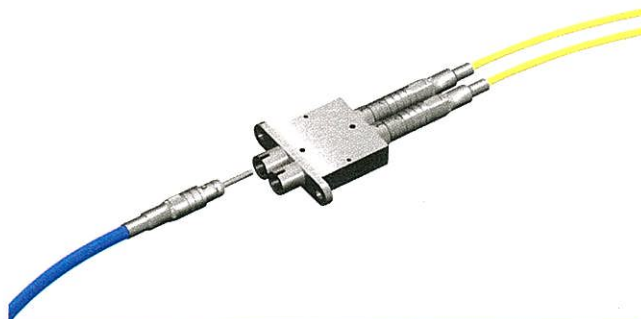


Winchester Electronics

Winchester Electronics takes the wraps off its KINGS® brand EL Series™ optical fiber broadcast cable connectors and components. The optical fiber video jacks and patch cords are based on an expanded light beam connection technology that replaces existing coaxial copper components or traditional ferrule-based fiber connectors.

In this new approach, when the light beam carrying the video/audio/data enters the connector, an optical lens converts the light beam into a series of parallel rays that pass through an air gap. The transmitted beam is then focused down on the receiving fiber end of the connector. Totally signal agnostic, the EL Series is equally adept at carrying HD SDI, Ethernet IP, Analog, Video or any other data format traveling along the fiber.

The expanded beam fiber connector technology is based on a non-contact method of mating optical fibers



*KINGS® brand EL Series™ Optical Fiber Video Jack -
the core of the award winning
EL Series™ Video Patching System*

that reduces the possibility of handling damage, as well as making blind mating of components simple. A key design decision made early in the development of this new family was to incorporate the push/pull style of mating used in previous Winchester copper connectors to allow technicians the ability to connect and disconnect in a simple, quick, one-step process. Because the EL

Series QuickConnect scheme is similar in function to that used in Winchester's copper interconnect components, the shift to optical connections is virtually transparent.

The ability to switch fiber optic signals directly eliminates the need for electrical to optical conversion for long distance runs. The EL system allows routing in a passive manner using a fiber jackfield with the look and feel of a copper jackfield using rugged fiber patch cords made from bend insensitive fiber with expanded beam connectors.

In a broadcast studio environment, the EL Series DIN connect patch cord is similar in function to the traditional BNC to BNC copper wiring terminated to the rear of a copper jackfield. The patch cord has an EL Series connector on one end and an industry standard LC, SC, FC, ST, (or any single or multi-mode) fiber connector on the other end.

The EL Series Optical Fiber Video Jack's small form factor allows easy integration into existing patch bays, up to 32 per jackfield. It uses a rear DIN 1.0/2.3 style mechanical latching for security of the Normal path. Customer termination of installed fiber is possible with the splice-on version of the EL connector, where a factory terminated expanded beam insert is attached to the fiber using fusion splice technology.

In addition to smaller diameter cables, larger carrying capacity, lower signal degradation and lower power requirement, the new EL Series connector components eliminate reliability issues associated with dirt and scratches common with traditional fiber connectors.

