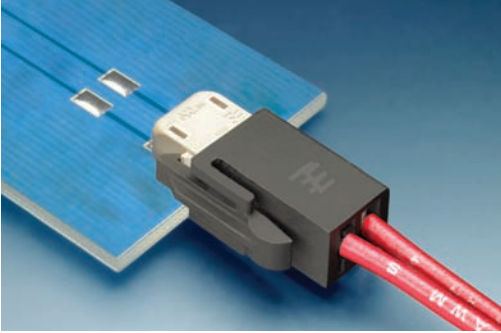




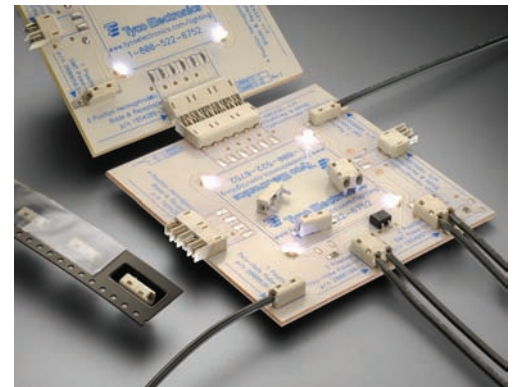
## **Wire-to-Board Hermaphroditic Blade and Receptacle Connector Simplifies PCB Layout**

Tyco Electronics' wire-to-board hermaphroditic blade and receptacle connector brings power leads attachment to a string of aluminum-clad printed circuit boards used for LED strings, lighting controls, and LED modules as well as conventional glass-epoxy printed circuit boards populated with the hermaphroditic board-to-board connectors. The wire-to-board connector is available in two, four, and six positions with a 6A, 125 VAC/125 VDC rating on 18-22 AWG stranded wire. The latest version of the board-to-board connectors has a side embossment latching feature that accepts the latch from the wire-to-board connector. Therefore, customers can now manufacture a single board layout per application rather than creating two separate boards with different power connections. A dust cover connector is also available to enclose the last hermaphroditic connector in a string of boards.



## **Next Generation SMT and Thru-Hole Poke-In Wire Expands Product Offering for LED String Application**

Tyco Electronics' SMT and thru-hole poke-in wire connectors provide a low-profile, quick, and reliable labor saving termination alternative to hand soldering wires to single-sided, aluminum clad PCB-based LED strings, lighting controls, and other non-lighting FR4 PCB applications. The connectors accept 18-22 AWG solid wire; 18-20 AWG pre-bond wire, and 18 AWG stranded wire (16 strands maximum) and are rated for 5A with a 250 VAC/250 VDC voltage rating (4A on 22 AWG wire). They are available in one or two positions, with single-position connectors offered in white or black for easy polarity identification. The standard- and low-insertion-force (recommended for 18 AWG stranded wire) versions of the connectors are side-to-side stackable on 4 mm centers. Gel-filled versions are available for indoor or outdoor application where moisture is an issue. The poke-in wire LED connectors are available in tape-and-reel packaging for high-speed SMT and thru-hole processing equipment. Housings are made of high-temperature plastic that is reflow solder process compatible.



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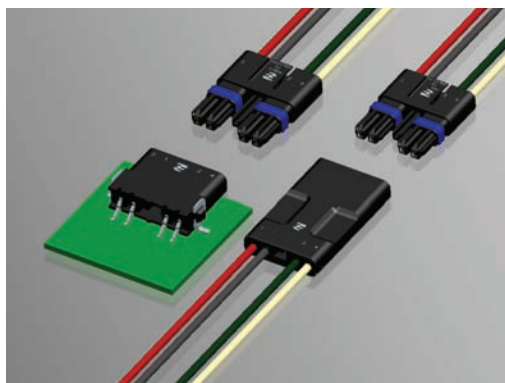
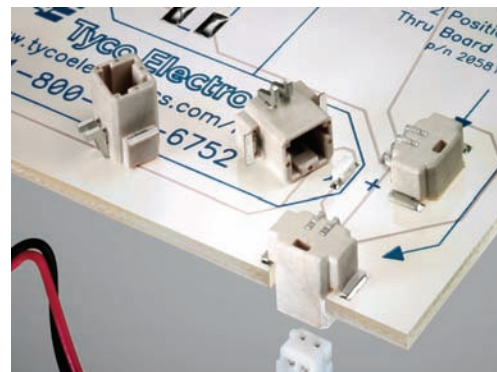
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## ***Inverted SMT Thru-Board Connectors Allow Power from Underside of Boards—Speeds LED Assembly***

The Tyco Electronics inverted SMT thru-board connector provides a means to bring power from the underside of an aluminum-clad or FR4 PC board, thus eliminating dressing wire leads on the top side of LED boards. With a space-saving, low-profile design and rounded corners to minimize shadowing, the two- through six-position connectors fit through a hole or notch in the board to present an underside interface. The connector accepts the standard Tyco Electronics Mini CT connectors and uses surface-mount hold-downs to provide stability during mating and unmating. The inverted design facilitates easier assembly and installation of solid-state LED lighting in architectural, residential, and commercial applications. The Mini CT connector is rated for 3A per contact on 24 AWG wire. High-temperature materials allow the connector to be reflow soldered, while a flat top surface provides compatibility with vacuum pickup. With UL Listing and CSA Certification, the connectors meet the requirements of UL 1977, File No. E2847

 **Tyco Electronics**  
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## ***Sealed Lighting Connector for Outdoor Applications***

Tyco Electronics' low-profile sealed lighting connector is designed specifically for outdoor lighting applications. The product family is available in two through four positions in wire-to-wire and wire-to-board styles—including vertical- and right-angle headers in SMT and thru-hole configurations. The connectors accept 18-26 AWG wire and have a 5A, 120 VAC rating with an operating temperature of -40 degrees Celsius to +105 degrees Celsius. They are manufactured using UV-resistant material with an IP67 seal rating. The polarized connectors have positive latching and a long grounding pin option for make-first/break-last capability. The connectors are shipped fully assembled with interfacial seals, rear seals, and wire guide in place ready to accept crimp-snap terminals.

## ***Choose 7.5 mm MiniHVL When Size and Easy Interconnection is Required***

Tyco Electronics' 7.5 mm MiniHVL connector system is suitable for power connection and coupling between lamps and fixtures in offices, kitchens, bathrooms, shops, household furniture, display cabinets, and mountable lighting. Designed according to the IEC 60320 standard for lighting industry applications, this system is ideal when size and easy interconnection are key requirements. Installable in small fixtures, the connector system is available in wire-to-wire configuration, offering outlet and plug assemblies with two contact positions. Using widely adopted MQS contacts, it provides a six-way distributor connector with an additional switch feature. The switch version is available using an additional seventh way and specially-coded red plug for external switch input. Applications include general two-pole appliance wiring system for household and similar purposes from low voltage up to 250V. An outlet bridge, splitter, panel-mount outlet, and bus-bar splitter expands interconnection options.



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