

WIRE-TO-BOARD

AVX Interconnect introduced the first Insulation Displacement Connector (IDC) specifically for terminating discrete wires between LED boards. Designated the 9175 series, this simple yet robust connector has been tested to automotive levels of shock, vibration and temperature cycling to meet the most demanding LED applications in the market today. Based on over 20 years of IDC contact technology for commercial, industrial and automotive applications, AVX expanded this series of connectors to support larger wire sizes and higher current and voltage ratings (designated series 9176 and 9177). The key features and benefits of this product family include:

- Wires are individually pressed into the connector with available tools to provide a very simple and cost effective termination process.
- Single or dual IDC contacts (based on AWG) provide a gas-tight connection of the wire to the PCB as well as enhanced mechanical stability of the connector to the PCB.
- Specific insulator channels are matched to the wire outside diameter (O.D.) to maximize the strain relief and wire retention force.
- Connectors are made from high temperature plastic to support automatic SMT placement up to 260°C reflow processing.

SERIES

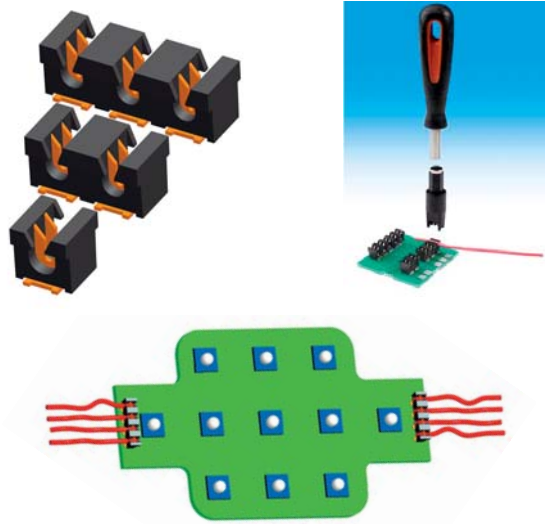
AVX Series	Sizes Available	Wire AWG	Current Rating	Voltage Rating (AC)	Voltage Proof (AC)	Operating Temp
9175	2p-3p	26-28	1 Amp	125v	375v	-40°C to +105°C
9176	2p-3p	18-24	10 Amp	250v	750v	-40°C to +105°C
9177	1p-3p	14-20	15 Amp	600v	1800v	-40°C to +105°C

PART NUMBER*

00 **917X** **00X** **0XX** **X06**
 Prefix Series Size AWG Color

* Please consult specific sales drawing for details

APPLICATION OVERVIEW



BOARD-TO-BOARD

The LED lighting market continues to grow and evolve at a very fast pace. AVX Interconnect has several new products in development for 2009 to meet the new product challenges our customers require in their new applications. The first of these products are board-to-board connectors for daisy chaining multiple LED boards together in series. The first product released is a simple 1 piece card edge style connector for 1.60mm thick PCBs while the second version is a compact 2 piece (plug and receptacle) connector for SMT attachment to the PCB. The key features and benefits of these new board-to-board connectors include:

- Simple and cost effective double ended card edge connector (1 piece) on 2.0mm pitch provides multiple connections to tin plated fingers at the end of each PCB.
- The compact 2 piece connector system is on 3.0mm pitch, 3.0mm height and 5.5mm overall mated length to maximize miniaturization.
- The 2 piece connectors are SMT terminated to one side of the PCB allowing both PCBs to be completely "butt" mated with no gap; this provides consistent LED spacing across multiple PCBs.
- The 2 piece connectors are made from high temperature plastic to support automatic SMT placement up to 260°C reflow processing.

SERIES

AVX Series	BTB Style	Sizes Available	Contact Plating	Current Rating	Voltage Rating (AC)	Voltage Proof (AC)	Operating Temp
9159	1 Piece	2p-5p	Pure Tin	3 Amp	250v	750v	-55°C to +125°C
9159	2 Piece	2p-5p	Gold	3 Amp	125v	375v	-55°C to +125°C

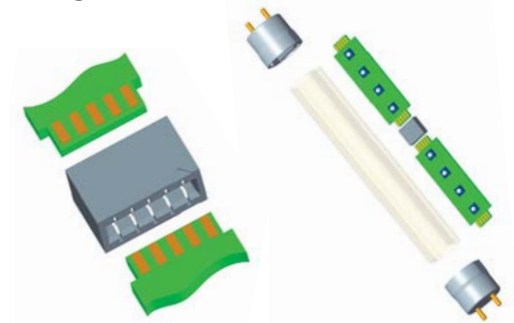
PART NUMBER*

XX **9159** **00X** **XXX** **XXX**
 Prefix Series Size Variation Color/Plating

* Please consult specific sales drawing for details

APPLICATION OVERVIEW

1 PIECE



2 PIECE

