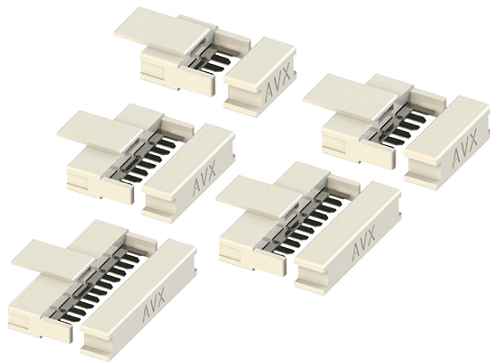


# IDC SOCKET WIRE-TO-BOARD: 24-9159-100



## General Information



KYOCERA AVX developed the 9159 series of SMT connectors for co-planar PCB mating for the demanding Solid State Lighting (SSL) market. These connectors had to be small, low profile, capable of carrying up to 5 Amps/contact and then operate at up to 125°C for extended periods of time. This application was very unique to the SSL market where PCBs are stacked end-to-end to create linear lighting strips in everything from office to transportation applications.

The IDC cable socket connector allows 22-24AWG discrete or cabled wires to be terminated easily and reliably into a standard 9159 interface connector. This allows power and signals to be connected to a PCB socket connector while providing positive latching. The wire assembly support block allows 2 to 6 wires to be terminated in one step using any standard bench press. IDC covers provide both through-hole (daisy chain applications) and wire-stop termination options.

### APPLICATIONS

- Provides Wire-to-Board capabilities to standard 9159 2-Piece connector system
- In conjunction with the IDC plug WTB connector (14-9159), these connectors provide maximum flexibility to bring power and signal wires onto or off of any board level 9159 connector
- Application Notes: Refer to 201-01-123
- Product Specification: Refer to 201-01-119

### FEATURES AND BENEFITS

- Mates with standard 9159 horizontal plug, keeping same BTB connector system
- Economical and reliable IDC wire termination
- Molded latch offers positive latching after mating
- UL Approved

### ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC (RMS) or DC equivalent

### ENVIRONMENTAL

- Operating Temperature: -40°C to +125°C
- Storage Temperature: -40°C to +70°C

### MECHANICAL

- Insulator Material: Nylon: UL94V0
- Contact Material: Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

### HOW TO ORDER

<b>24</b>	<b>9159</b>	<b>00X</b>	<b>1</b>	<b>X</b>	<b>2</b>	<b>X</b>	<b>X</b>	<b>6</b>																																		
Prefix Right Angle Wired Socket IDC Terminations	Series	Number of Ways	2 Part PCB Strip Connector 2 Part Wired IDC Strip Connector	Wire Gauge 2 = 22AWG 3 = 24AWG	Wire Insulation Diameter ø1.10mm to ø1.60mm	Color 8 = Black 9 = White	Cap Options	Plating Option 6 = Gold on Contact Tin on IDC																																		
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**SALES DRAWINGS**  
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Safety Standards: UL 1977-File #E90723