AVX developed the initial SMT discrete wire IDC connector 5 years ago for 26-28AWG AVX wires. Since then, we have seen this Wire-to-Board (WTB) contact technology spread to multiple wire gauges and multiple configurations; standard connectors, capped connectors and single contacts. All of which addresses specific application or cost parameters set forth by our customer in demanding industrial, transportation or commercial applications. The heart of the IDC connector is the true “gas tight” WTB termination that is achieved once the wire is inserted between the dual phosphor bronze contact tines. These opposing tines provide enough spring characteristics to allow the termination to remain stable over extreme levels of temperature, shock and vibration.

The new 9177-600 family of contacts incorporates all of the above mentioned capabilities. From low cost single contacts to fully integrated capped contacts. The unique feature of the 600 series is the fact that it was developed for Plated Through Hole (PTH) termination to the PCB. This addresses the rugged power type boards that have to handle larger wire gauges up to 12AWG and 15 Amps per contact of current. The PTH option provides robust PCB attachment and high current capabilities to replace older technology connectors or in most cases soldering stripped wires directly to the PCB.

### APPLICATIONS
- Industrial pumps, motors and driver boards
- Solar and alternative energy products
- Commercial electrical equipment
- Reference Product Specification & application notes 201-01-141/142

### ELECTRICAL
- Current Rating: 15A
- Voltage Rating: 600 VAC

### ENVIRONMENTAL
- Operating Temperature:
  -40°C to +125°C

### MECHANICAL
- Insulator Material: Nylon 46, UL94VO
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: Wires can be replaced up to 3 times

### HOW TO ORDER

<table>
<thead>
<tr>
<th>Code</th>
<th>Number of Ways</th>
<th>Style</th>
<th>Wire Gauge</th>
<th>Wire Insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>1</td>
<td>Through Hole Mount</td>
<td>12 AWG Solid or Stranded</td>
<td>Ø 4.25 Max</td>
</tr>
<tr>
<td>01</td>
<td>1</td>
<td>Through Hole Mount</td>
<td>14 AWG Solid or Stranded</td>
<td>Ø 4.25 Max</td>
</tr>
<tr>
<td>12</td>
<td>1</td>
<td>Through Hole Mount</td>
<td>16 AWG Solid or Stranded</td>
<td>Ø 3.50 Max</td>
</tr>
<tr>
<td>22</td>
<td>1</td>
<td>Through Hole Mount</td>
<td>18 AWG Solid or Stranded</td>
<td>Ø 3.50 Max</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Insulator Color</th>
<th>Cap Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Black - Special Order</td>
<td>Through Wire</td>
<td>Any Position Along Wire</td>
</tr>
<tr>
<td>09</td>
<td>Black - Special Order</td>
<td>Wire Stop</td>
<td>End of Wire - Includes Stop</td>
</tr>
<tr>
<td>10</td>
<td>White - Standard</td>
<td>Through Wire</td>
<td>Any Position Along Wire</td>
</tr>
<tr>
<td>19</td>
<td>White - Standard</td>
<td>Wire Stop</td>
<td>End of Wire - Includes Stop</td>
</tr>
</tbody>
</table>
12 - 18 AWG 1 WAY IDC CONNECTOR WIRE THROUGH CAP

NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION, WIRE THROUGH CAP, CAN BE ASSEMBLED AT ANY POSITION ALONG A WIRE.
2. CONTACT MATERIAL: PHOSPHOR BRONZE. INSULATION MATERIAL: HIGH TEMP NYLON 46, UL94 V-0. COLOR REFER TO PAGE 1.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 12 AND 18 AWG STRANDED WIRE.
4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCED.
5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-141.
6. APPLICATION NOTES 201-01-142.
7. OUTLINE OF CAP. NO SPACE FOR COMPONENTS.
8. TEST TO INDICATE MAXIMUM INSULATION DIAMETER.

PACKING DETAILS

SMT PCB LAYOUT

PURE TIN PADS

QUANTITY PER REEL 800
Capped Thru Hole 12-18 AWG: WTB
00-9177

12 - 18 AWG 1 WAY IDC CONNECTOR WIRE STOP CAP

NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION, WIRE STOP CAP, FOR USE AT WIRE END.
2. CONTACT MATERIAL: PHOSPHOR BRONZE. INSULATION MATERIAL: HIGH TEMP NYLON 46, UL94 V-0. COLOR REFER TO PAGE 1.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 12 AND 18 AWG STRANDED WIRE.
4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCED.
5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-141.
6. APPLICATION NOTES 201-01-142.
7. OUTLINE OF CAP. NO SPACE FOR COMPONENTS.
8. TEST TO INDICATE MAXIMUM INSULATION DIAMETER.
9. SLOT TO CHECK WIRE POSITION BEFORE ASSEMBLY.

PACKING DETAILS

SMT PCB LAYOUT

PURE TIN PADS