# 9175 Series Wire to Board IDC Connector





## **APPLICATIONS**

- PCB to PCB individual wire interconnect
- High volume and high speed assembly
- Device to PCB interconnect (coils, sensors, etc.)

The 9175 series from AVX offers customers the ability of connecting individual wires to a single row of contacts using IDC technology.

Available as a 2 or 3 pin connector it is both low profile and has a small PCB footprint. The connector is SMT assembled to the PCB prior to assembly of the wire.

Using a small application tool, the wires are then inserted into the contact slot. This process cuts the insulation and enables the individual conductors of the wire to form a homogeneous joint. The shape of the molding also forms a restraint to the wire when fully inserted in the contact. These connectors are supplied in tape and reel for easy pick and place. The wire options are 28 or 26 AWG solid or stranded wire.

### FEATURES AND BENEFITS

- Small single row IDC
- Rated at 1 amp
- Uses both stranded and solid wire (26 or 28 AWG)
- Insulators are end to end stackable for higher pin counts
- Uses simple hand tool for higher volume applications

#### 002 001 006 00 9175 Number of Ways Plating Option Prefix Series 006 = Pure Tin All Over 002 = 2003 = 3



### **HOW TO ORDER**

Wire Gauge Size		
Code	Accepted Wire Gauge	Wire Insulation
001	28 Gauge Solid or Stranded 26 Gauge Solid or Stranded	Min ∅ 0.70 Max ∅ 1.00

06 9175 7017 01 000

Ø 1.00



### **2 WAY IDC CONNECTOR 3 WAY IDC CONNECTOR** 2 PITCHES @ 2.50 (0.098) = 5.00 (0.197) 2.50 (0.098) 2.50 2.50 (0.098) 口申 Pick Up Area 1.10 x 2.50 (0.043 x 0.098) Pick Up Area 1.18 x 2.50 (0.046 x 0.098) (0.073) 3.45 (0.136)<sup>-</sup> 3.45 (0.136)<sup>-</sup> Ť π ா V 0.10 (0.004) 0.10 (0.004) 2.50 5.00 2.50 7.50 (0.295) (0.197) (0.098) **SMT PCB LAYOUT** SMT PCB LAYOUT PURE TIN PADS PURE TIN PADS 2 PITCHES @ 2.50 (0.098) = 5.00 (0.197) 2.50 2.50 (0.098) CONNECTOR OUTLINE 1.10 (0.043) 1.10 (0.043) CONNECTOR OUTLINE 2.70 (0.106) 2.90 (0.114)<sup>-1</sup> 2.50 (0.098) 2.90 (0.114) Ż 2.70 1.00 (0.039) 1.00 (0.039) 2.50 0.70 (0.028) 0.70 (0.028)-5.00 (0.197) -7.50 (0.295) HAND INSERTION TOOLING UNIVERSAL HANDLE Tool Details Part Number 6.35 A/F HEX 06 7000 7730 01 000 **BIT HOLDER** / BLCC 8175 METAL SHANK ALL PLASTIC PLASTIC ALL METAL MED PRODUCTION LOW PRODUCTION HIGH PRODUCTION Metal Metal/Plastic Plastic Max Max Max Tool Tool Tool Insulation Insulation Insulation Part Number Part Number Part Number Dia Dia Dia

06 9175 7016 01 000

Ø 1.00

06 9175 7004 01 000

Ø 1.00