



The 917X series of surface mount Insulation Displacement Connectors (IDC) were developed to meet the harsh automotive and industrial market applications for connecting individual wires directly to a PCB ranging from 14 AWG to 28 AWG. This industry proven contact system has been tested to automotive levels of shock, vibration, and temperature cycling to prove their reliability and robustness. The simplicity of inserting a wire into the connector with a small tool allows a wide range of devices to be connected to the PCB without soldering. In SSL applications specifically, these connectors are used to bring power and signal onto the PCB or are used to daisy chain multiple boards together in a long string. While the IDC contact provides a gas-tight connection to conductor of the wire, the housing has been designed to grab the insulation of the wire to provide a positive strain relief even in the harshest conditions. In case of repair, the wires can be removed and replace up to three times.

The 9175 series accepts 26 AWG to 28 AWG wires with an insulation diameter ranging from 0.7mm to 1.0mm. These single contact connectors support a 1 amp current rating and have a split SMT tail design to provide maximum stability on the PCB. Available in a 2p and 3p configuration, these connectors can be end stackable for higher pin counts.

APPLICATIONS

- Connecting discrete wire components directly to the PCB
- Bringing power and signals onto a PCB
- Daisy chaining PCB's together to create a continuous string of boards
- Application Notes: refer to 201-01-124

FEATURES AND BENEFITS

- IDC contact provides a gas-tight connection to the PCB for long term reliability
- · Connector housing captures the wire insulation for positive strain relief
- Tested to automotive levels on shock, vibration and temperature cycling for reliability
- Low and high volume assembly tools to match production volumes
- Reduced total applied cost versus solder or crimp processes
- High temperature insulator capable to 260 degrees C reflow soldering processes

ELECTRICAL

- Current Rating: 1 Amp / Contact
- Voltage Rating: 150 VAC

ENVIRONMENTAL

• Operating Temperature: -40°C to +125°C

MECHANICAL

- Insulator Material: Nylon 46: UL94V0
- Contact Material: Phosphor Bronze

- Plating: Tin over Nickel
- Durability: 3 Cycles

HOW TO ORDER

00 Prefix	9175 Series	00X Number of Ways				001 Wire Gauge Size	X Insulator Color	06 Plating	
		Code	No of Ways	Details	Code	Accepted Wire Gauge	Wire Insulation	9 = UL White 8 = UL Black Special Order	Option 06 = Pure Tin all over
		002	2	Page 2	001	28 Gauge Solid or Stranded	Min Ø 0.70		all Over
		003	3	Page 3		26 Gauge Solid or Stranded	Max Ø 1.00		



CONNECTOR/TOOLING PART NUMBER MATRIX

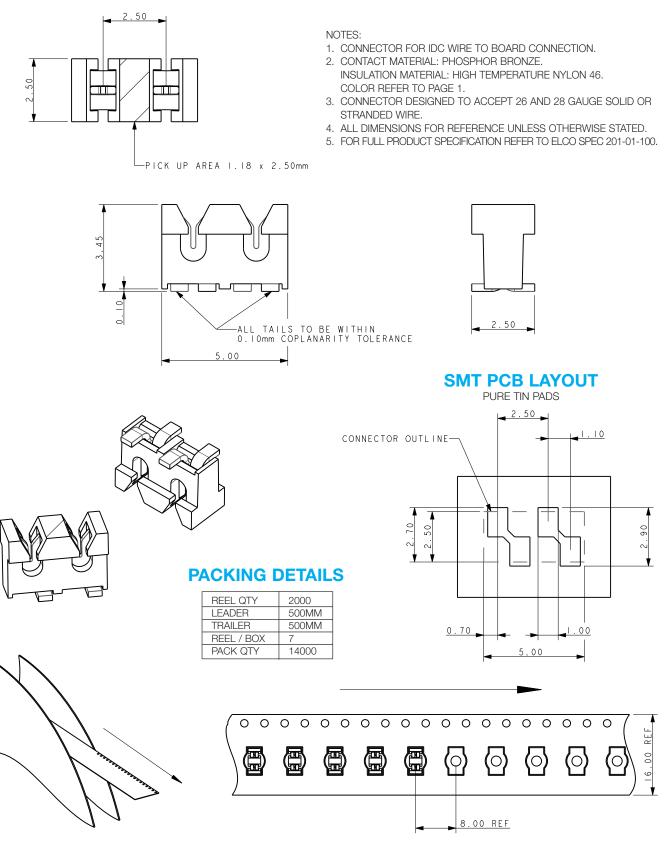
		SERIES 9	175 IDC		HAN	D INSERTION TOOL	ACCESSORY CAPS			
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (medium volume)	Metal (high volume)	Mass Termination	Though Wire	Wire Stop	
26	Ø 0.7 - 1.0	2p	White	009175002001906	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199	
26	Ø 0.7 - 1.0	2р	Black	009175002001806	069175701601000	069175701701000	069175701701002	609175002010000	609175002010099	
26	Ø 0.7 - 1.0	Зр	White	009175003001906	069175701601000	069175701701000	069175701701003	609175003010100	609175003010199	
26	Ø 0.7 - 1.0	Зр	Black	009175003001806	069175701601000	069175701701000	069175701701003	609175003010000	609175003010099	
28	Ø 0.7 - 1.0	2p	White	009175002001906	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199	
28	Ø 0.7 - 1.0	2p	Black	009175002001806	069175701601000	069175701701000	069175701701002	609175002010000	609175002010099	
28	Ø 0.7 - 1.0	Зр	White	009175003001906	069175701601000	069175701701000	069175701701003	609175003010100	609175003010199	
28	Ø 0.7 - 1.0	Зр	Black	009175003001806	069175701601000	069175701701000	069175701701003	609175003010000	609175003010099	
* Hand Insertion Tooling - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124										

Certification: UL File #E90723



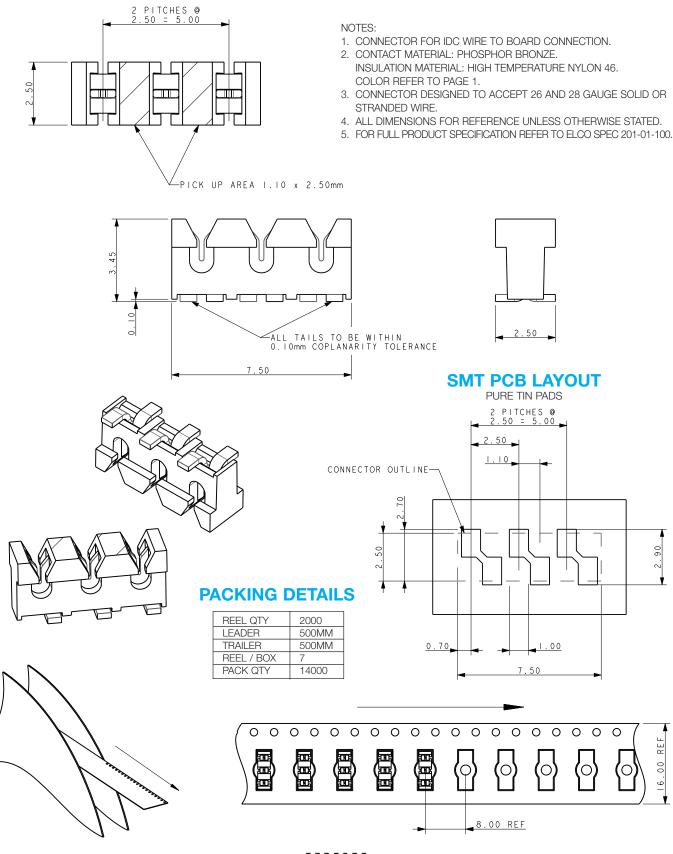


26-28 AWG 2 WAY IDC CONNECTOR



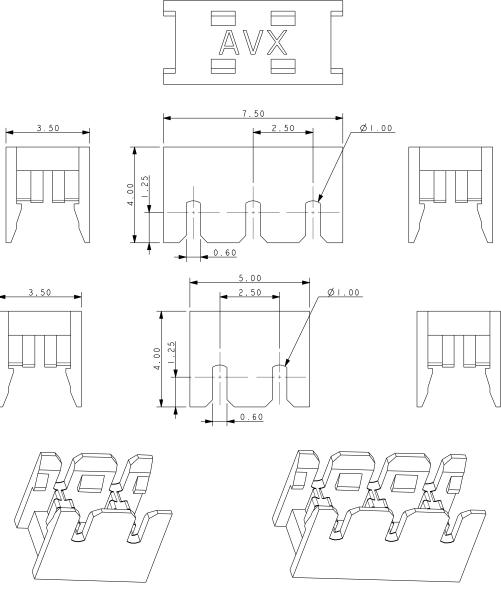


26-28 AWG 3 WAY IDC CONNECTOR





60-9175-00X-010-X00 ACCESSORY CAP – THROUGH WIRE



60-9175-002-010-X00

60-9175-003-010-X00

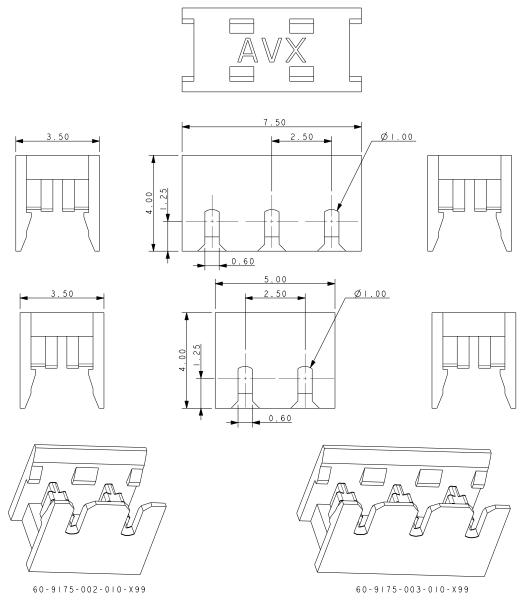
NOTES:

- 1. CAP FOR IDC WIRE TO BOARD CONNECTION, 2 AND 3 WAY, THROUGH WIRE.
- 2. THROUGH WIRE CAP CAN BE USED AT ANY POSTION ALONG A WIRE.
- 3. FOR USE WITH STANDARD 9175 IDC CONNECTORS
- 4. CAP MATERIAL: GLASS FILLED NYLON 46, FOR COLORS SEE PAGE 1.
- 5. CAPS DESIGNED TO ACCOMMODATE WIRES WITH INSULATION UP TO 1.00MM DIAMETERS.
- 6. GENERAL TOLERANCE ±0.20.
- 7. PACKED IN BAGS, 1000 PIECES PER BAG.





60-9175-00X-0XX-010-X99 ACCESSORY CAP – WIRE STOP



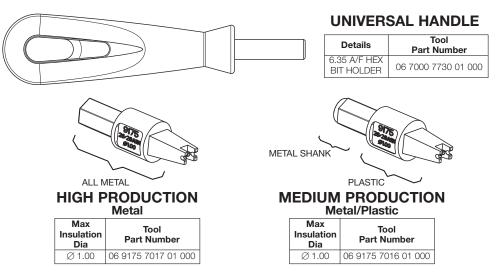
NOTES:

- 1. CAP FOR IDC WIRE TO BOARD CONNECTION, 2 AND 3 WAY, WIRE STOP.
- 2. WIRE STOP CAP FOR USE AT WIRE ENDS, STOP FACE PROTECTS THE WIRE ENDS.
- 3. FOR USE WITH STANDARD 9175 IDC CONNECTORS
- 4. CAP MATERIAL: GLASS FILLED NYLON 46, FOR COLORS SEE PAGE 1.
- 5. CAPS DESIGNED TO ACCOMMODATE WIRES WITH INSULATION UP TO 1.00MM DIAMETERS.
- 6. GENERAL TOLERANCE ±0.20.
- 7. PACKED IN BAGS, 1000 PIECES PER BAG.

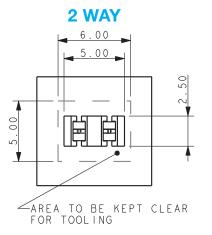


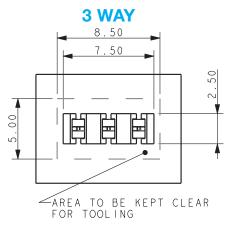


HAND INSERTION TOOLING SINGLE WIRE INSERTION TOOL FOR 26/28 GAUGE WIRE



CLEARANCE AREA ON PCB FOR HAND TOOLING



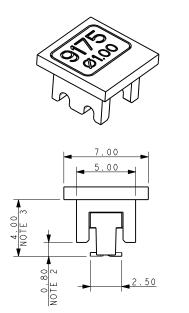


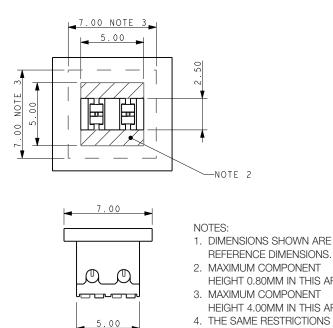


INSERTION TOOLING REQUIRES HAND PRESS WITH FLAT ROCK PLATES

2 WAY TOOL

TOOL NUMBER 06-9175-7017-01-002 SKETCH SHOWS PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING

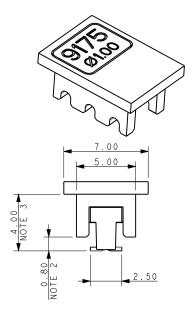


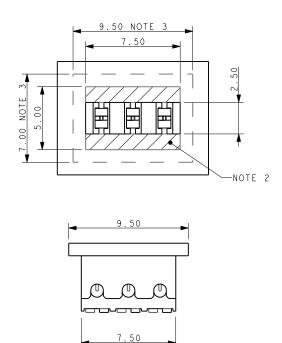


- REFERENCE DIMENSIONS.
- HEIGHT 0.80MM IN THIS AREA.
- 3. MAXIMUM COMPONENT HEIGHT 4.00MM IN THIS AREA.
- 4. THE SAME RESTRICTIONS APPLY TO ALL WIRE INSULATION DIAMETERS.

3 WAY TOOL

TOOL NUMBER 06-9175-7017-01-003 SKETCH SHOWS PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING





/XV/X

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Kyocera AVX: 069175701601000 069175701701000 069175701701002 069175701701003