Standard 26-28 AWG: WTB







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	9175		00X			00X		x ⊤	06
Prefix	Series	Nun	nber of	Ways		Wire Gauge Size	i de la companya de l		Plating
		Code	No of Ways	Details	Code	Accepted Wire Gauge	Wire Insulation	9 = UL White 8 = UL Black Special Order	Option 06 = Pure Tin
		002	2	Page 4	001	28 Gauge Solid or Stranded	Ø 0.70 to Ø 1.00		all over
		003	3	Page 5	002	26 Gauge Solid or Stranded	Ø 0.70 to Ø 1.00		

CONNECTOR/TOOLING PART NUMBER MATRIX

		SERIES 9	175 IDC		HANI	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	009175002002906	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199
26	Ø 0.7 - 1.0	2p	Black	009175002002806	069175701601000	069175701701000	069175701701002	609175002010000	609175002010099
26	Ø 0.7 - 1.0	Зр	White	009175003002906	069175701601000	069175701701000	069175701701003	609175003010100	609175003010199
26	Ø 0.7 - 1.0	Зр	Black	009175003002806	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	2р	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
		* Ha	and Inser	tion Tooling - Unive	rsal Hand Tool 0670	00773001000; Cons	ult Application Note	es 201-01-124	

Certification: UL File #E90723

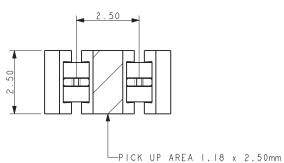


RoHS

Standard 26-28 AWG: WTB 00-9175

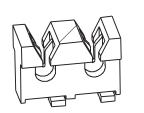


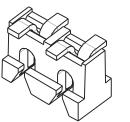




<u>"A" TYP</u> SEE TABLE 45 \sim л Т 2 0.70 TYP 0 5.00

Code	Wire Gauge	Α
001	28AWG	0.20
002	26AWG	0.28





PACKING DETAILS

MMO
MMO

	2000	
EADER	500MM	
FRAILER	500MM	

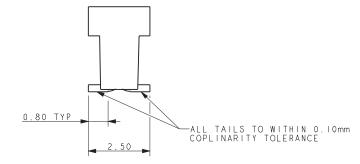
EEL QIY	2000	
EADER	500MM	
RAILER	500MM	

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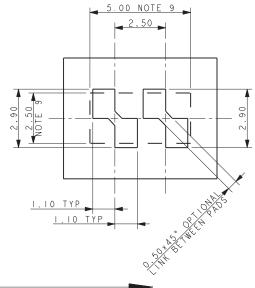


- NOTES:
 - 1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 - 2. CONTACT MATERIAL: PHOSPHOR BRONZE. INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46. COLOR REFER TO PAGE 3.
 - 3. CONNECTOR DESIGNED TO ACCEPT 26 AND 28 GAUGE SOLID OR STRANDED WIRE.
 - 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 - 5. FOR FULL PRODUCT SPECIFICATION ON STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-100, UL COMPONENTS REFER TO ELCO SPEC 201-01-100UL.
 - 6. APPLICATION NOTES 201-01-124.
 - 7. FOR UL PRODUCT CODES UL REFERENCE 390723 (US AND CANADA).
 - 8. CONNECTOR OUTLINE.
 - 9 ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.



SMT PCB LAYOUT

PURE TIN PADS



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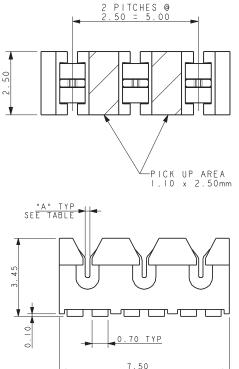
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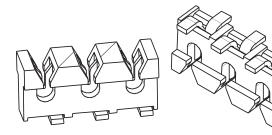
Standard 26-28 AWG: WTB 00-9175



26-28 AWG 3 WAY IDC CONNECTOR

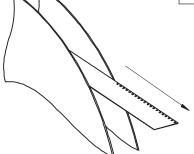


Code	Wire Gauge	Α
001	28AWG	0.20
002	26AWG	0.28



PACKING DETAILS

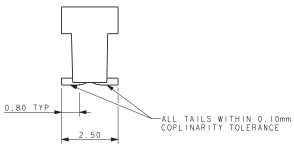
REEL QTY	2000
LEADER	500MM
TRAILER	500MM



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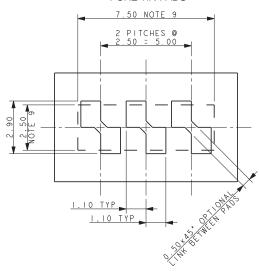
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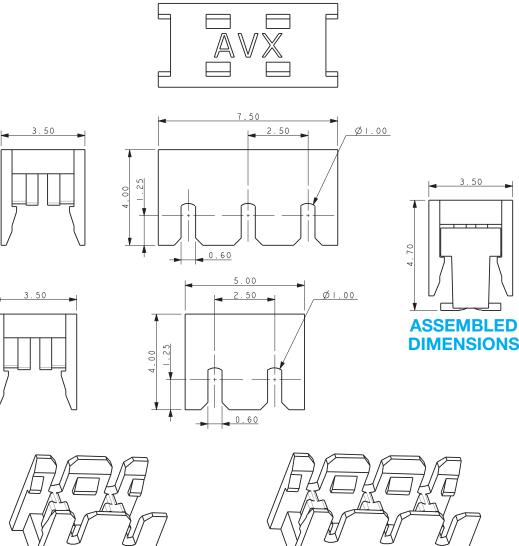
SMT PCB LAYOUT

PURE TIN PADS





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



60-9175-002-010-X00

60-9175-003-010-X00

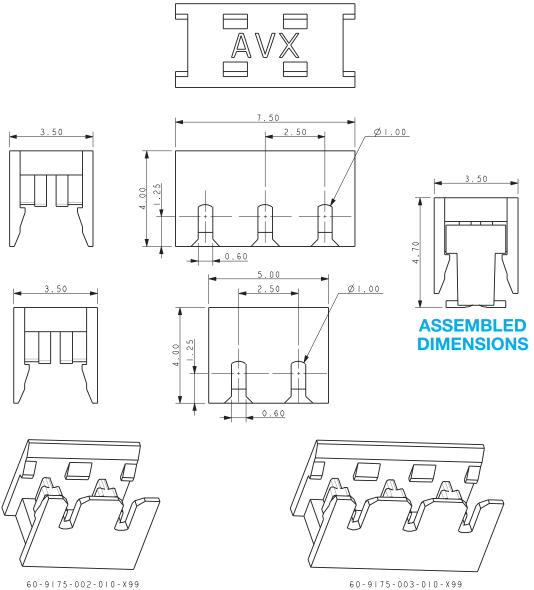
NOTES:

- 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 3.
- 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.
- 8. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.





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



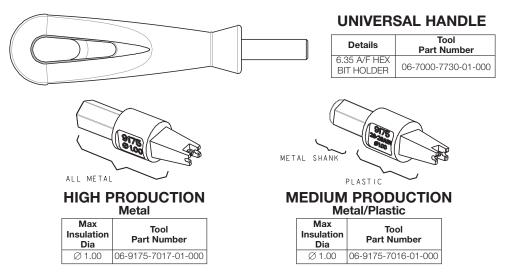
NOTES:

- 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 3.
- 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.
- 8. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.

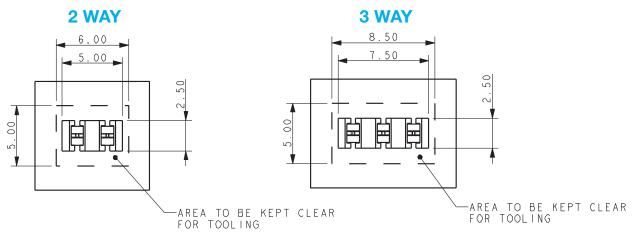




HAND INSERTION TOOLING SINGLE WIRE INSERTION TOOL FOR 26/28 GAUGE WIRE



CLEARANCE AREA ON PCB FOR HAND TOOLING



Standard 26-28 AWG: WTB





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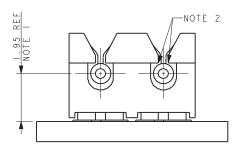
INSERTION TOOLING REQUIRES HAND PRESS WITH FLAT ROCK PLATES

2 WAY TOOL **3 WAY TOOL** TOOL NUMBER 06-9175-7017-01-002 TOOL NUMBER 06-9175-7017-01-003 SKETCH SHOWS PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING SKETCH SHOWS PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING 9 50 NOTE 3 7.00 NOTE 3 50 5.00 S Õ Ô NOTE 00 NOTE 00 00 Ē -00 0.0 7.00 5.00 5.00 -NOTE 2 NOTE 2 7.00 9.50 NOTE 3 4.00 NOTE 3 80 Ø O ത \mathbb{O} π 2.50 50 5.00 7.50

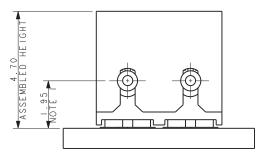
NOTES:

- 1. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 2. MAXIMUM COMPONENT 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.

ASSEMBLED CONNECTOR



STANDARD CONNECTOR



CONNECTOR WITH CAP

NOTES:

- 1. ASSEMBLED HEIGHTS INCLUDE A 0.10MM ALLOWANCE FOR PAD AND SOLDER THICKNESS, NO ALLOWANCE HAS BEEN MADE FOR ANY SOLDER RESIST OR OTHER FEATURES.
- 2. WHEN THE WIRE IS ASSEMBLED THE INSULATION SHOULD BE TRAPPED BY THESE EDGES.

单击下面可查看定价,库存,交付和生命周期等信息

>>AVX