

AVX Wire-to-Board Connectors



Version 11.11

AVX
A KYOCERA GROUP COMPANY

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INSULATION DISPLACEMENT CONNECTORS (IDC) WIRE TO BOARD (WTB)

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NOTICE: Specifications are subject to change without notice. Contact your nearest AVX Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable, but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should not assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all applications.



Discrete Wire IDC



Series 9175



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: 125 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	001	X	06																								
Prefix	Series	Number of Ways	Wire Gauge Size	Insulator Color	Plating Option																								
		<table><tr><th>Code</th><th>No of Ways</th><th>Details</th></tr><tr><td>002</td><td>2</td><td>Page 3</td></tr><tr><td>003</td><td>3</td><td>Page 4</td></tr></table>	Code	No of Ways	Details	002	2	Page 3	003	3	Page 4	<table><tr><th>Code</th><th>Accepted Wire Gauge</th><th>Wire Insulation</th></tr><tr><td>001</td><td>28 Gauge Solid or Stranded 26 Gauge Solid or Stranded</td><td>Min Ø 0.70 Max Ø 1.00</td></tr></table>	Code	Accepted Wire Gauge	Wire Insulation	001	28 Gauge Solid or Stranded 26 Gauge Solid or Stranded	Min Ø 0.70 Max Ø 1.00	<table><tr><th>Code</th><th>Color</th><th>Application</th></tr><tr><td>0</td><td>Black</td><td>Industrial</td></tr><tr><td>1</td><td>White</td><td>Lighting</td></tr></table>	Code	Color	Application	0	Black	Industrial	1	White	Lighting	06 = Pure Tin all over
Code	No of Ways	Details																											
002	2	Page 3																											
003	3	Page 4																											
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Code	Color	Application																											
0	Black	Industrial																											
1	White	Lighting																											

Certification: UL File #E320991

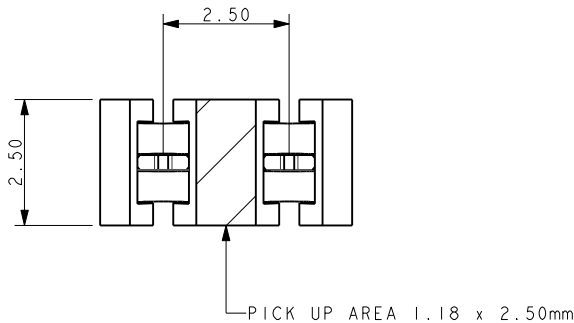
CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9175 IDC					HAND INSERTION TOOLING*			ACCESSORY CAPS	
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (medium volume)	Metal (high volume)	Mass Mass Termination	Though Wire	Wire Stop
26	Ø 1.0	2p	White	009175002001106	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199
26	Ø 1.0	2p	Black	009175002001006	069175701601000	069175701701000	069175701701002	609175002010000	609175002010099
26	Ø 1.0	3p	White	009175003001106	069175701601000	069175701701000	069175701701003	609175003010100	609175003010199
26	Ø 1.0	3p	Black	009175003001006	069175701601000	069175701701000	069175701701003	609175003010000	609175003010099
28	Ø 0.7	2p	White	009175002001106	069175701601000	069175701701000	069175701701002	609175002010100	609175002010199
28	Ø 0.7	2p	Black	009175002001006	069175701601000	069175701701000	069175701701002	609175002010000	609175002010099
28	Ø 0.7	3p	White	009175003001106	069175701601000	069175701701000	069175701701003	609175003010100	609175003010199
28	Ø 0.7	3p	Black	009175003001006	069175701601000	069175701701000	069175701701003	609175003010000	609175003010099

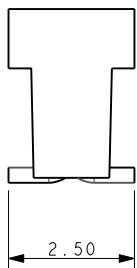
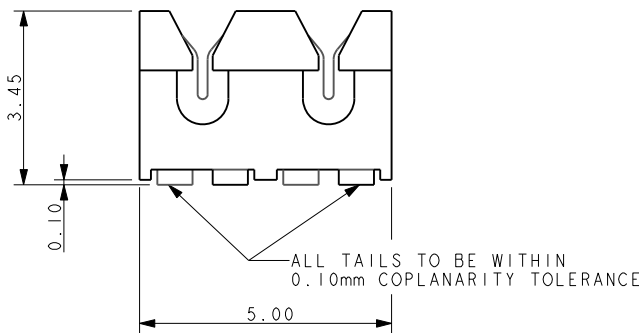
* Hand Insertion Tooling - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124



26-28 AWG 2 WAY IDC CONNECTOR

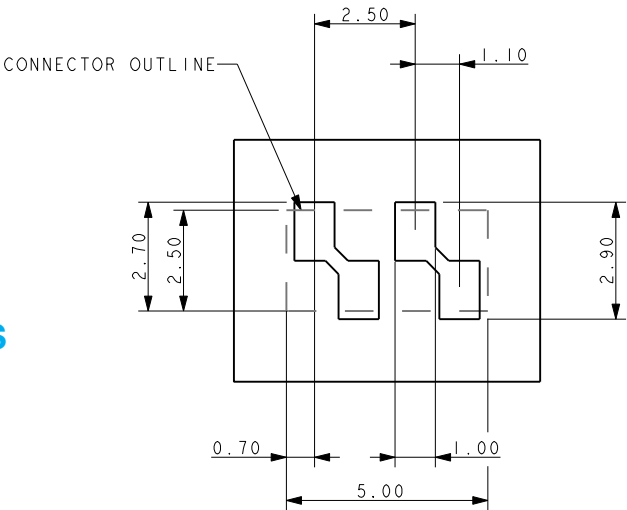


- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 2.
 3. CONNECTOR DESIGNED TO ACCEPT 26 AND 28 GAUGE SOLID OR STRANDED WIRE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-100.



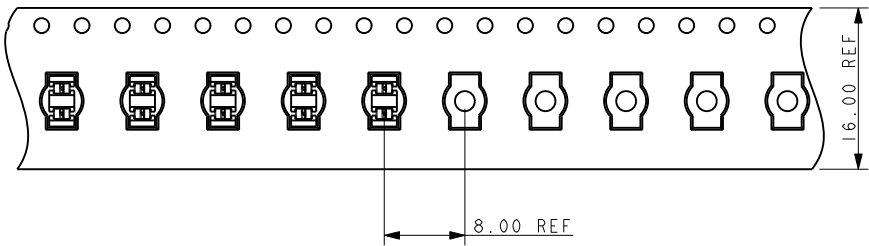
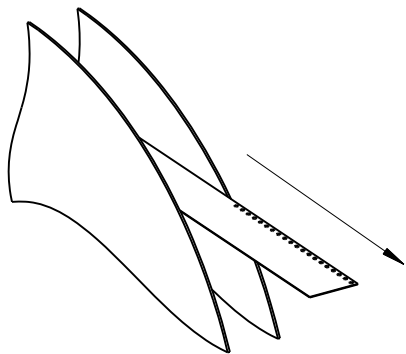
SMT PCB LAYOUT

PURE TIN PADS



PACKING DETAILS

REEL QTY	2000
LEADER	500MM
TRAILER	500MM
REEL / BOX	7
PACK QTY	14000

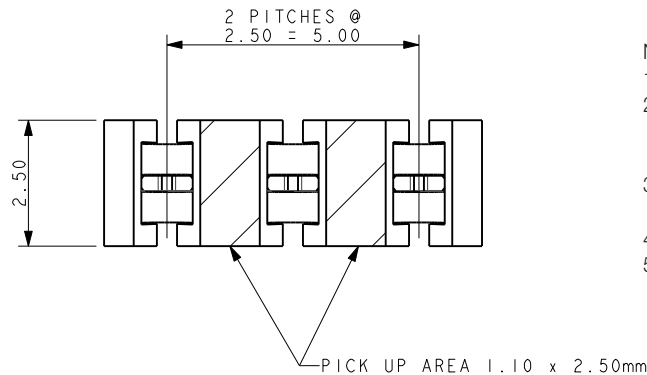


Discrete Wire IDC

Series 9175

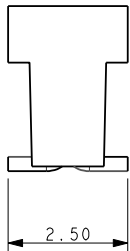
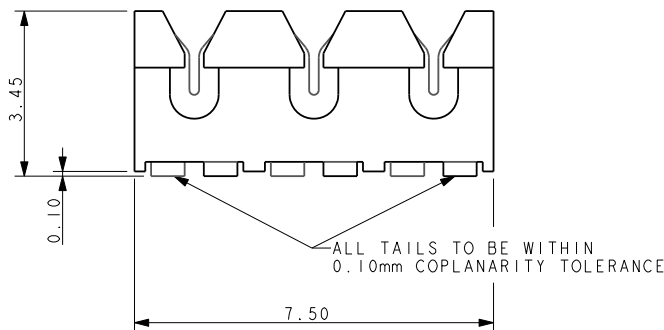


26-28 AWG 3 WAY IDC CONNECTOR



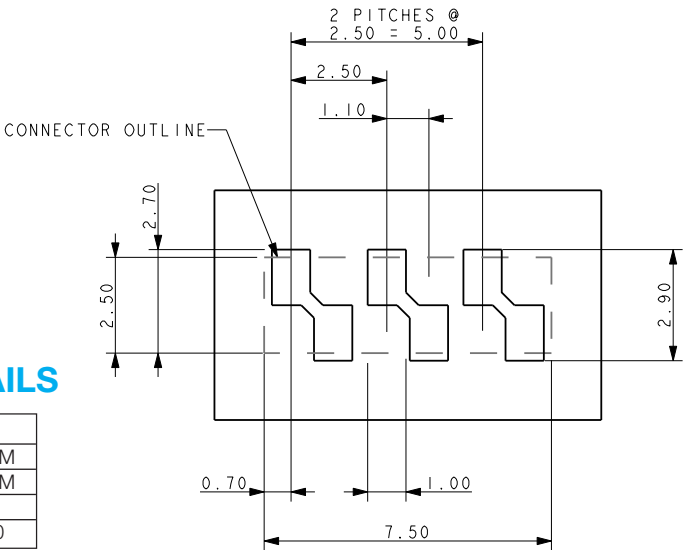
NOTES:

1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 2.
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 REFER TO ELCO SPEC 201-01-100.



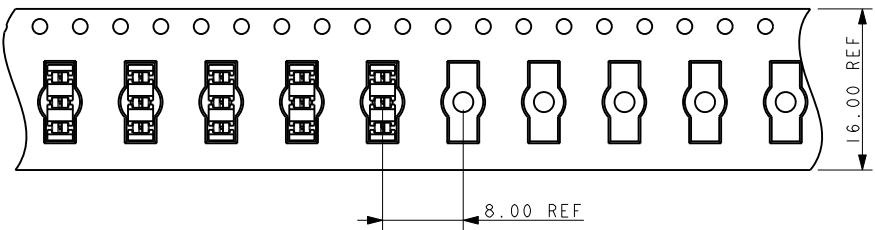
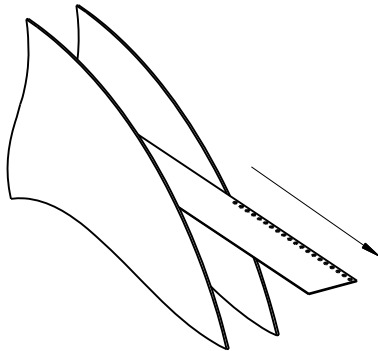
SMT PCB LAYOUT

PURE TIN PADS



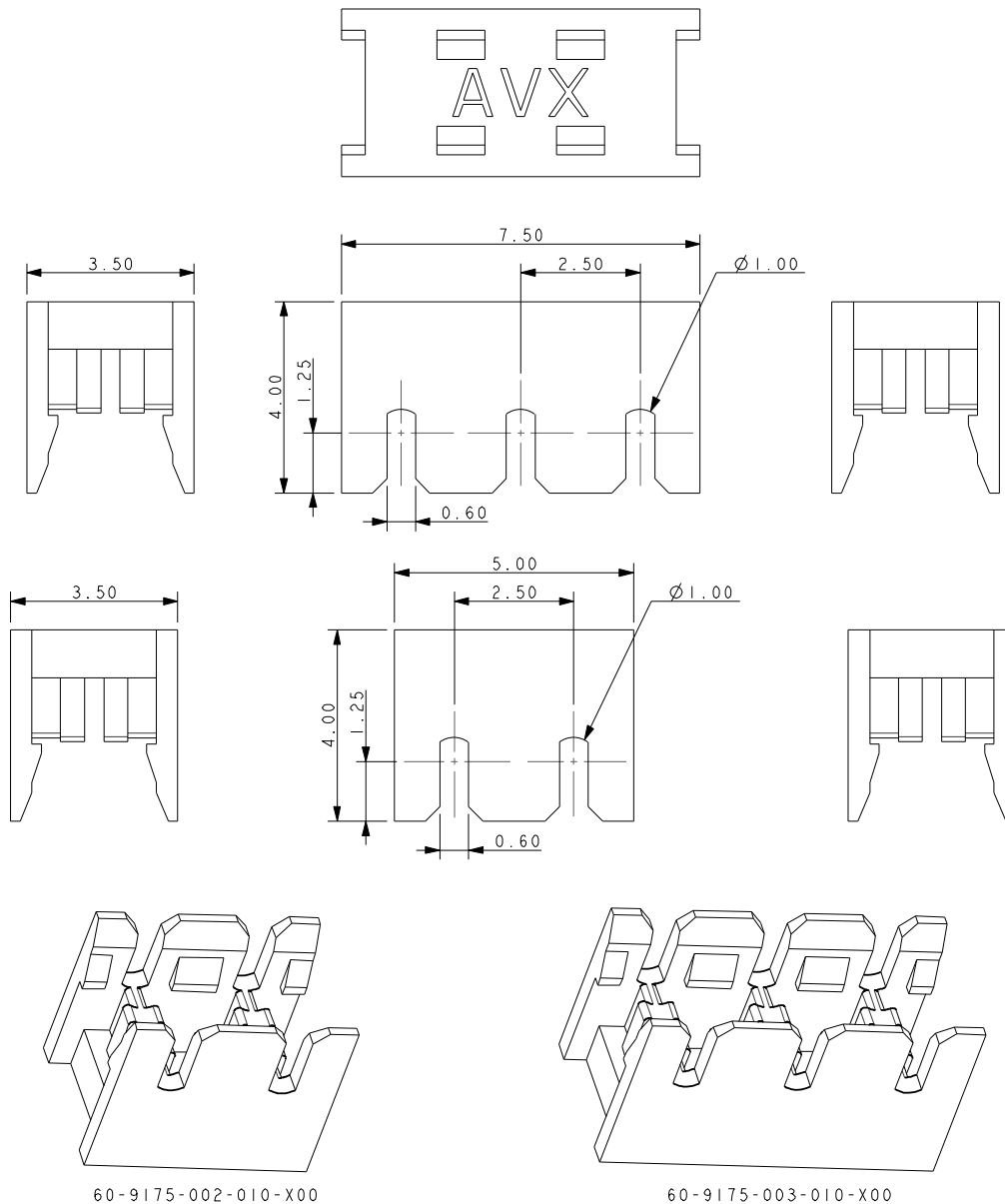
PACKING DETAILS

REEL QTY	2000
LEADER	500MM
TRAILER	500MM
REEL / BOX	7
PACK QTY	14000



60-9175-00X-010-X00

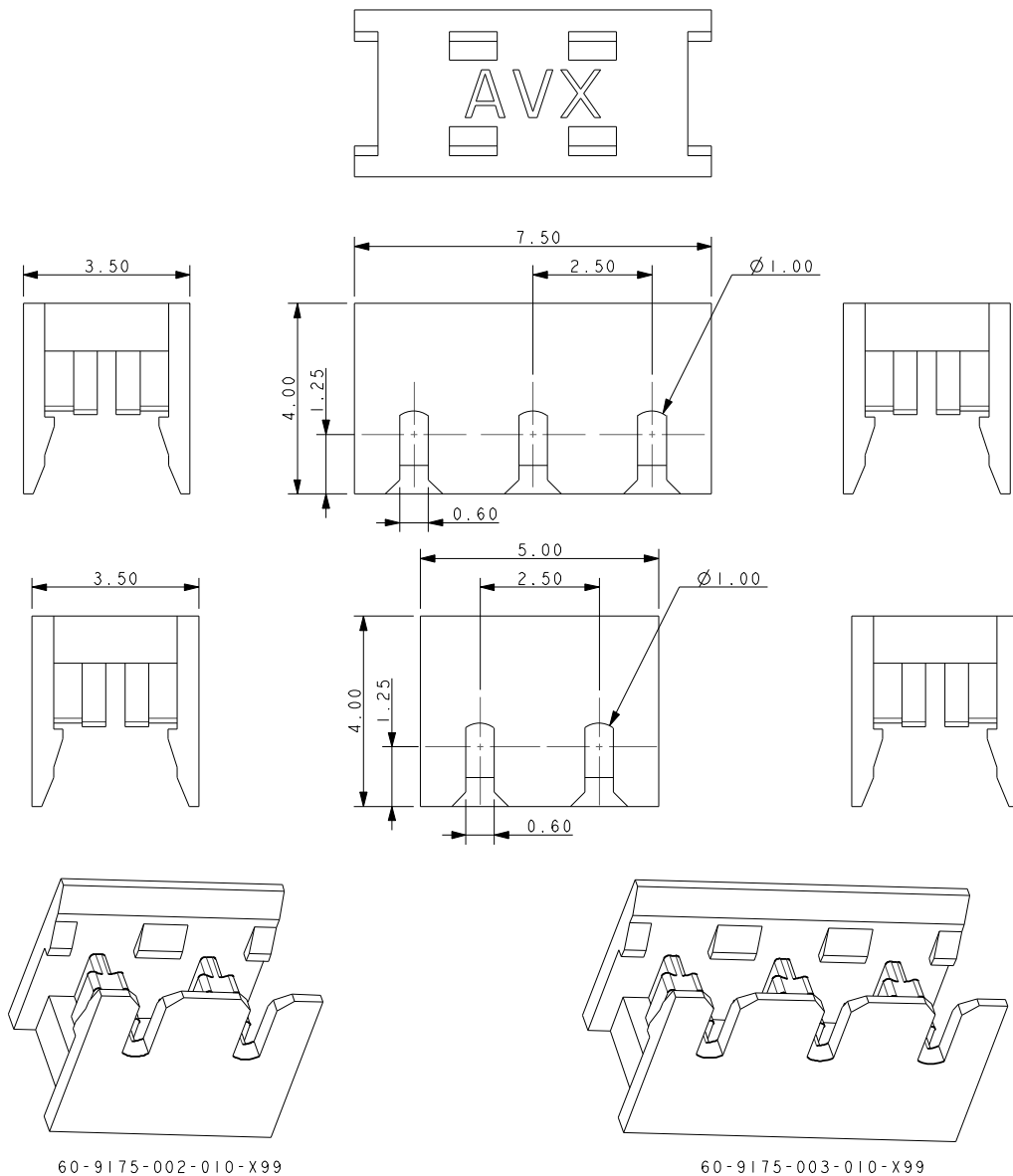
ACCESSORY CAP – THROUGH WIRE



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 2.
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:

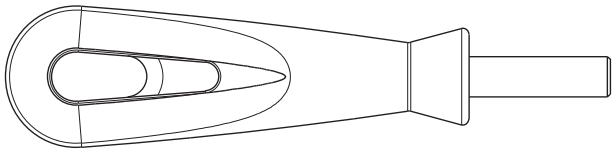
1. CAP FOR IDC WIRE TO BOARD CONNECTION, 2 AND 3 WAY, WIRE STOP.
2. WIRE STOP CAP FOR USE AT WIRE ENDS, STOP FACE PROTECTS THE WIRE ENDS.
3. FOR USE WITH STANDARD 9175 IDC CONNECTORS
4. CAP MATERIAL: GLASS FILLED NYLON 46, FOR COLORS SEE PAGE 2.
5. CAPS DESIGNED TO ACCOMMODATE WIRES WITH INSULATION UP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

Discrete Wire IDC



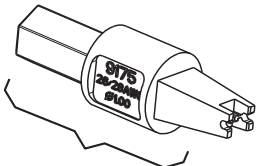
Series 9175

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



UNIVERSAL HANDLE

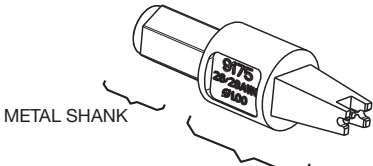
Details	Tool Part Number
6.35 A/F HEX BIT HOLDER	06 7000 7730 01 000



ALL METAL

HIGH PRODUCTION Metal

Max Insulation Dia	Tool Part Number
Ø 1.00	06 9175 7017 01 000



METAL SHANK

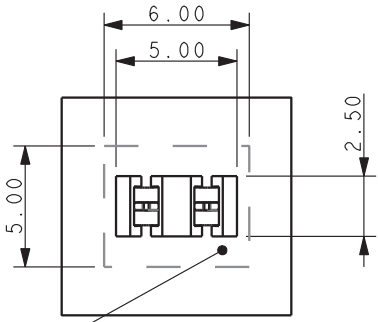
PLASTIC

MEDIUM PRODUCTION Metal/Plastic

Max Insulation Dia	Tool Part Number
Ø 1.00	06 9175 7016 01 000

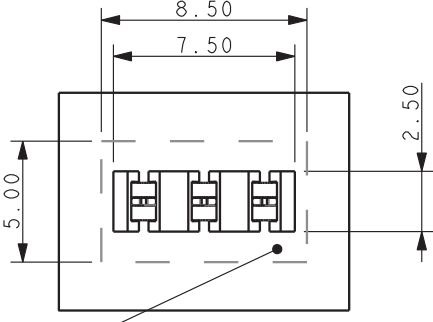
CLEARANCE AREA ON PCB FOR HAND TOOLING

2 WAY



AREA TO BE KEPT CLEAR
FOR TOOLING

3 WAY



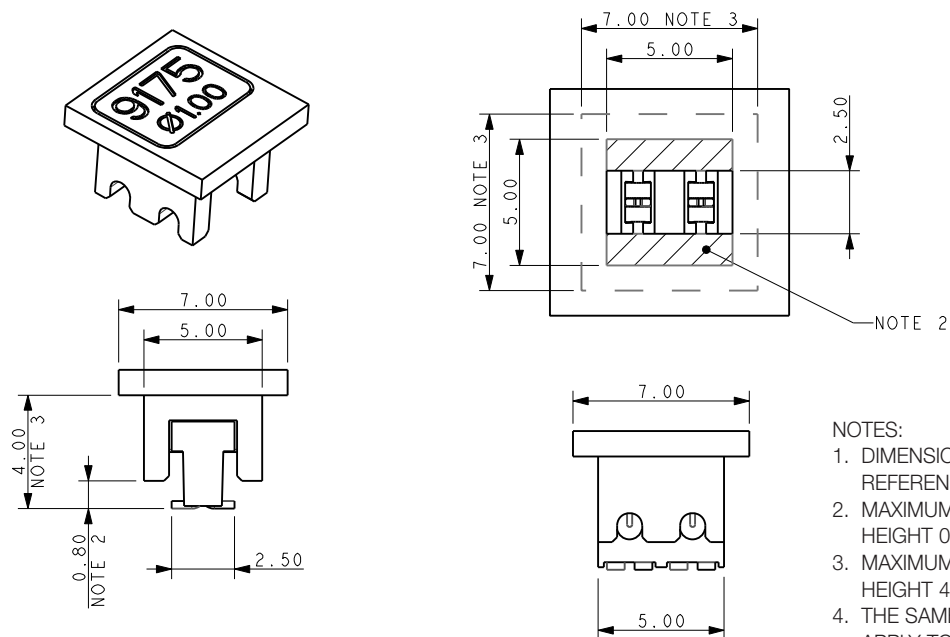
AREA TO BE KEPT CLEAR
FOR TOOLING

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



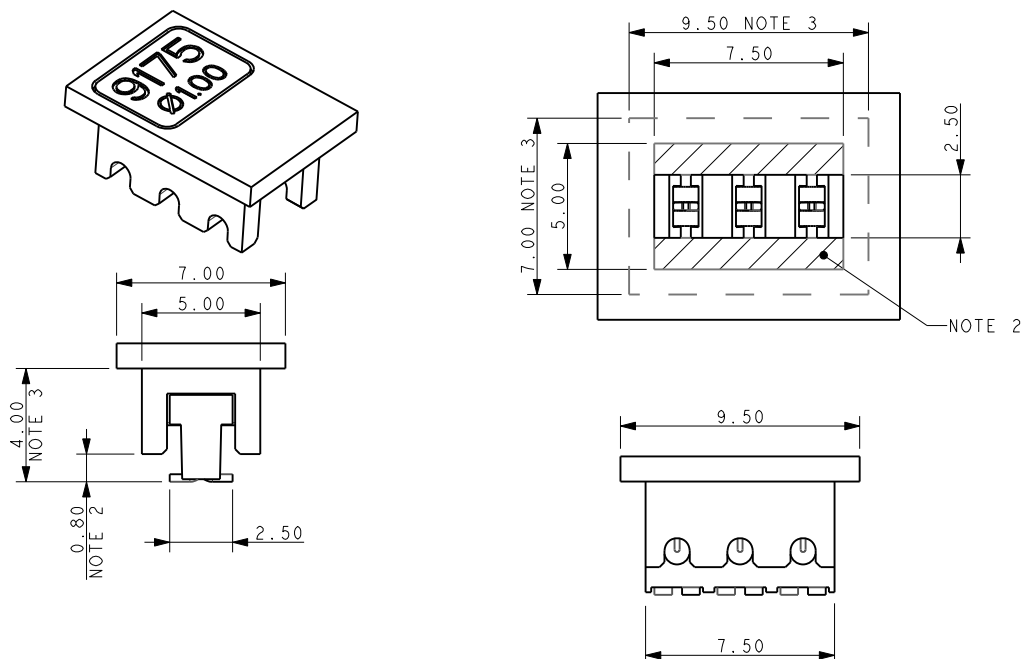
NOTES:

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.

3 WAY TOOL

TOOL NUMBER 06-9175-7017-01-003

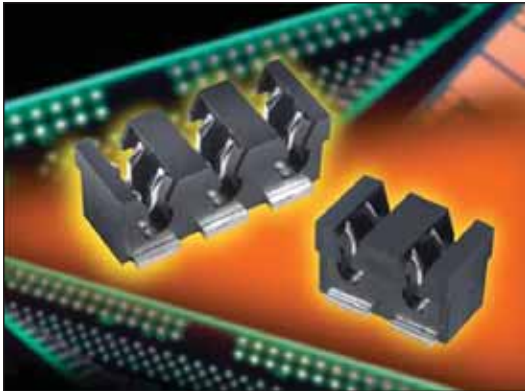
SKETCH SHOWS PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING



Discrete Wire IDC



Series 9176



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 9176 series accepts 18 AWG to 24 AWG wires with an insulation diameter ranging from 1.1mm to 2.1mm. These dual contact connectors support a 10 amp current rating with two large SMT solder tails per wire to provide maximum stability on the PCB. Available in 1p-3p configuration, these connectors can be end stackable for higher pin counts. The 9176 series also comes with optional locking strain relief caps that act as the termination tool for severe vibration applications.

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
- Optional thru and end caps lock in place to provide maximum strain relief
- High temperature insulator capable to 260°C reflow soldering processes

ELECTRICAL

- Current Rating: 10 Amp / Contact
- Voltage Rating: 250 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	9176	00X												
Prefix	Series	Number of Ways												
		<table><tr><th>Code</th><th>No of Ways</th><th>Details</th></tr><tr><td>001</td><td>1</td><td>Page 11</td></tr><tr><td>002</td><td>2</td><td>Page 12</td></tr><tr><td>003</td><td>3</td><td>Page 13</td></tr></table>	Code	No of Ways	Details	001	1	Page 11	002	2	Page 12	003	3	Page 13
Code	No of Ways	Details												
001	1	Page 11												
002	2	Page 12												
003	3	Page 13												

00X

Wire Gauge Size

Code	Accepted Wire Gauge	Wire Insulation	Cap Code Pages 13-14
001	18 Gauge Stranded	Ø 1.6-2.1	021
011	20 Gauge Stranded	Ø 1.6-2.1	021
022	22 Gauge Stranded	Ø 1.1-1.6	016
032	24 Gauge Stranded	Ø 1.1-1.6	016

X


Insulator Color

Code	Color	Application
0	Black	Industrial
1	White	Lighting

06
Plating Option
06 = Pure Tin all over

Certification: UL File #E320991



Discrete Wire IDC



Series 9176

CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9176 IDC					HAND INSERTION TOOLING*			ACCESSORY CAPS	
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (medium volume)	Metal (high volume)	Mass Termination	Through Wire	Wire Stop
18	Ø 1.6 - 2.1	1p	White	009176001001106	069176701601000	069176701701000	N/A	609176001021100	609176001021199
18	Ø 1.6 - 2.1	1p	Black	009176001001006	069176701601000	069176701701000	N/A	609176001021000	609176001021099
18	Ø 1.6 - 2.1	2p	White	009176002001106	069176701601000	069176701701000	069176701701002	609176002021100	609176002021199
18	Ø 1.6 - 2.1	2p	Black	009176002001006	069176701601000	069176701701000	069176701701002	609176002021000	609176002021099
18	Ø 1.6 - 2.1	3p	White	009176003001106	069176701601000	069176701701000	069176701701003	609176003021100	609176003021199
18	Ø 1.6 - 2.1	3p	Black	009176003001006	069176701601000	069176701701000	069176701701003	609176003021000	609176003021099
20	Ø 1.6 - 2.1	1p	White	009176001011106	069176701601000	069176701701000	N/A	609176001021100	609176001021199
20	Ø 1.6 - 2.1	1p	Black	009176001011006	069176701601000	069176701701000	N/A	609176001021000	609176001021099
20	Ø 1.6 - 2.1	2p	White	009176002011106	069176701601000	069176701701000	069176701701002	609176002021100	609176002021199
20	Ø 1.6 - 2.1	2p	Black	009176002011006	069176701601000	069176701701000	069176701701002	609176002021000	609176002021099
20	Ø 1.6 - 2.1	3p	White	009176003011106	069176701601000	069176701701000	069176701701003	609176003021100	609176003021199
20	Ø 1.6 - 2.1	3p	Black	009176003011006	069176701601000	069176701701000	069176701701003	609176003021000	609176003021099
22	Ø 1.1 - 1.6	1p	White	009176001022106	069176701602000	069176701702000	N/A	609176001016100	609176001016199
22	Ø 1.1 - 1.6	1p	Black	009176001022006	069176701602000	069176701702000	N/A	609176001016000	609176001016099
22	Ø 1.1 - 1.6	2p	White	009176002022106	069176701602000	069176701702000	069176701702002	609176002016100	609176002016199
22	Ø 1.1 - 1.6	2p	Black	009176002022006	069176701602000	069176701702000	069176701702002	609176002016000	609176002016099
22	Ø 1.1 - 1.6	3p	White	009176003022106	069176701602000	069176701702000	069176701702003	609176003016100	609176003016199
22	Ø 1.1 - 1.6	3p	Black	009176003022006	069176701602000	069176701702000	069176701702003	609176003016000	609176003016099
24	Ø 1.1 - 1.6	1p	White	009176001032106	069176701602000	069176701702000	N/A	609176001016100	609176001016199
24	Ø 1.1 - 1.6	1p	Black	009176001032006	069176701602000	069176701702000	N/A	609176001016000	609176001016099
24	Ø 1.1 - 1.6	2p	White	009176002032106	069176701602000	069176701702000	069176701702002	609176002016100	609176002016199
24	Ø 1.1 - 1.6	2p	Black	009176002032006	069176701602000	069176701702000	069176701702002	609176002016000	609176002016099
24	Ø 1.1 - 1.6	3p	White	009176003032106	069176701602000	069176701702000	069176701702003	609176003016100	609176003016199
24	Ø 1.1 - 1.6	3p	Black	009176003032006	069176701602000	069176701702000	069176701702003	609176003016000	609176003016099

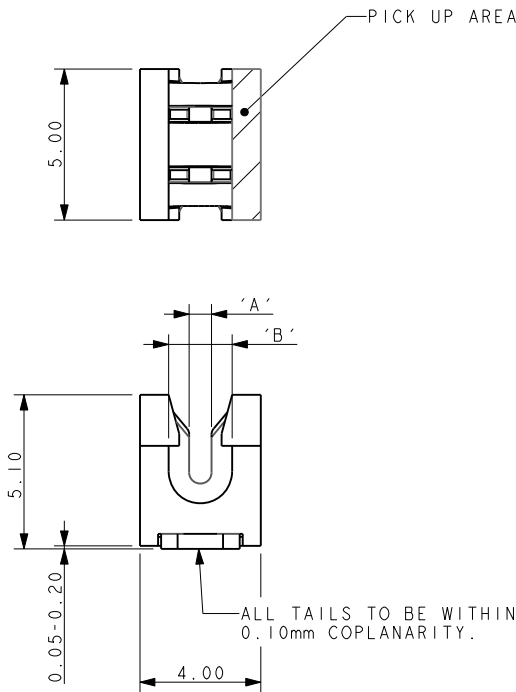
* Hand Insertion Tooling - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124

Discrete Wire IDC

Series 9176

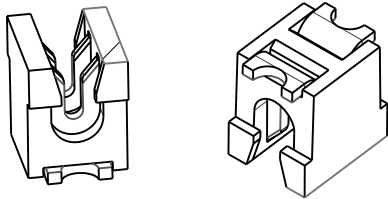
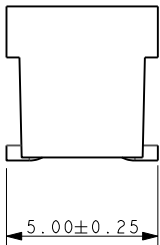


18-24 AWG 1 WAY IDC CONNECTOR



NOTES:

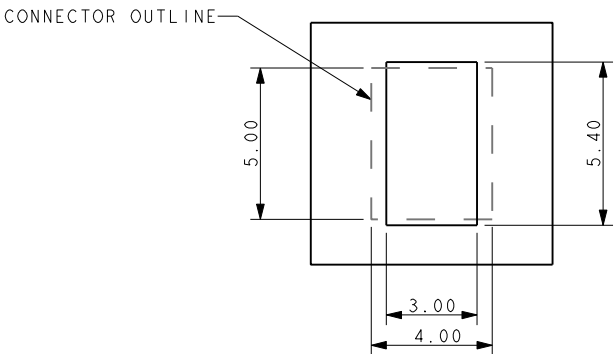
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 9.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND APPLICATION NOTES 201-01-124.
6. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 16.
7. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 16.



Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18 Gauge Stranded	0.72	Ø 1.6-2.1	2.1
011	20 Gauge Stranded	0.60	Ø 1.6-2.1	2.1
022	22 Gauge Stranded	0.47	Ø 1.1-1.6	1.6
032	24 Gauge Stranded	0.37	Ø 1.1-1.6	1.6

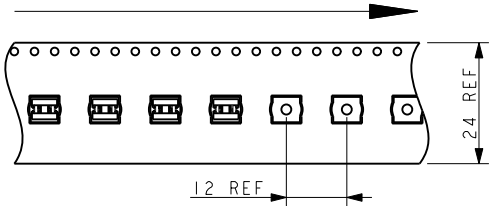
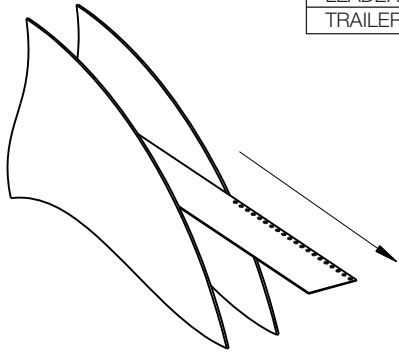
SMT PCB LAYOUT

PURE TIN PADS



PACKING DETAILS

REEL QTY	1000
LEADER	480MM
TRAILER	120MM

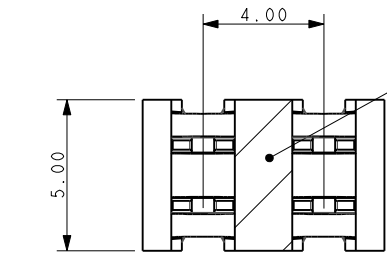


Discrete Wire IDC

Series 9176

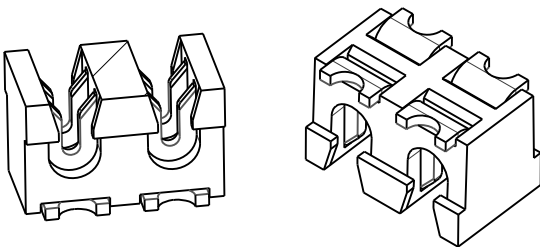
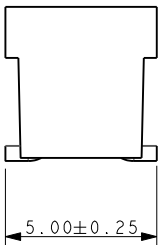
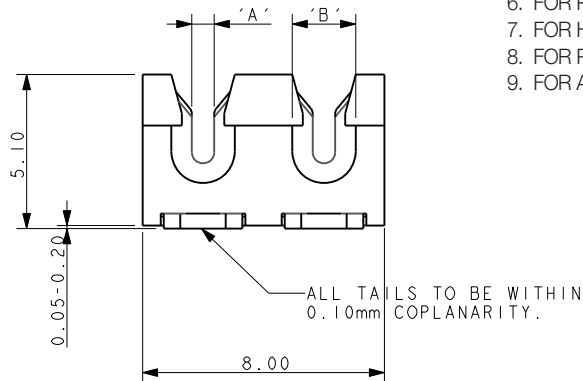


18-24 AWG 2 WAY IDC CONNECTOR



NOTES:

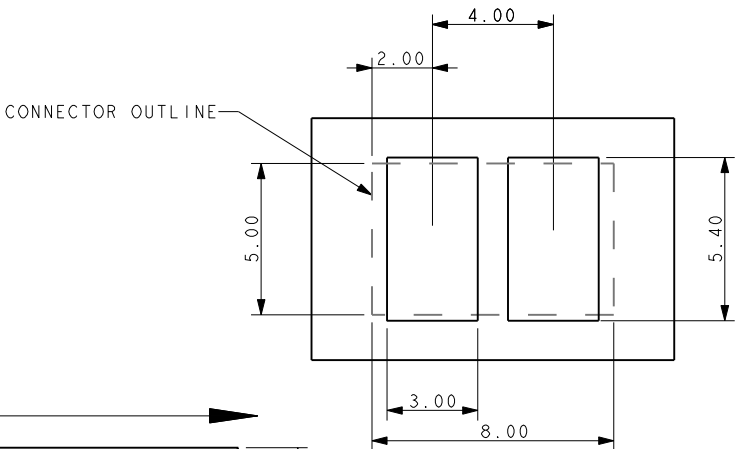
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 9.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND APPLICATION NOTES 201-01-124.
6. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 16.
7. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 16
8. FOR PRESS WIRE ASSEMBLY TOOLING REFER TO PAGE 17.
9. FOR ACCESSORY CAPS REFER TO PAGES 14 AND 15.



Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18 Gauge Stranded	0.72	Ø 1.6-2.1	2.1
011	20 Gauge Stranded	0.60	Ø 1.6-2.1	2.1
022	22 Gauge Stranded	0.47	Ø 1.1-1.6	1.6
032	24 Gauge Stranded	0.37	Ø 1.1-1.6	1.6

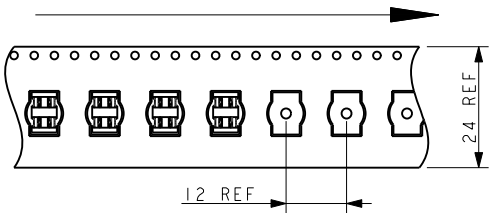
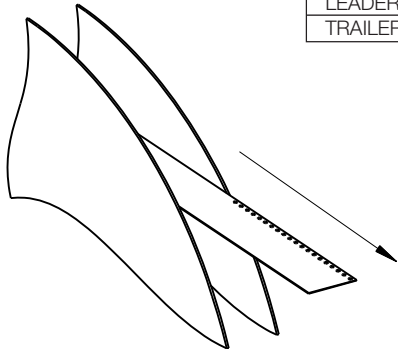
SMT PCB LAYOUT

PURE TIN PADS

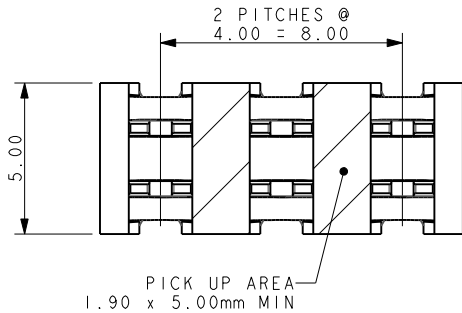


PACKING DETAILS

REEL QTY	1000
LEADER	480MM
TRAILER	120MM

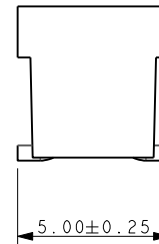
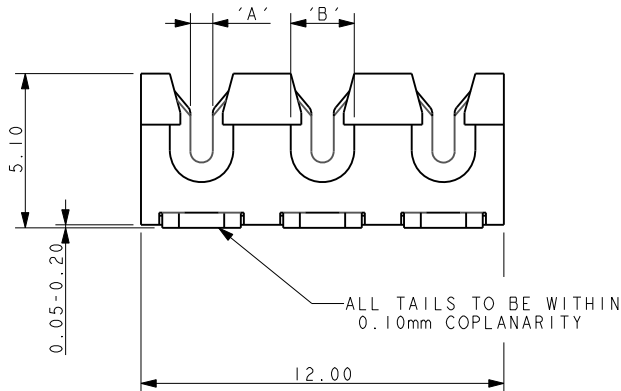


18-24 AWG 3 WAY IDC CONNECTOR

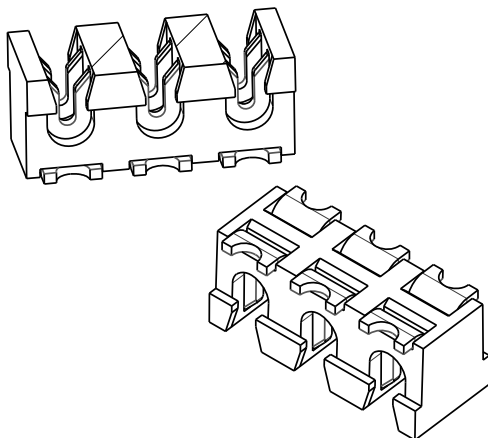


NOTES:

1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 9.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 24 AND 18 GAUGE STRANDED WIRE.
4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND APPLICATION NOTES 201-01-124.
6. FOR PCB SPACE RESTRICTED BY WIRE ASSEMBLY TOOLING REFER TO PAGE 16.
7. FOR HAND WIRE ASSEMBLY TOOLING REFER TO PAGE 16
8. FOR PRESS WIRE ASSEMBLY TOOLING REFER TO PAGE 17.
9. FOR ACCESSORY CAPS REFER TO PAGES 14 AND 15.

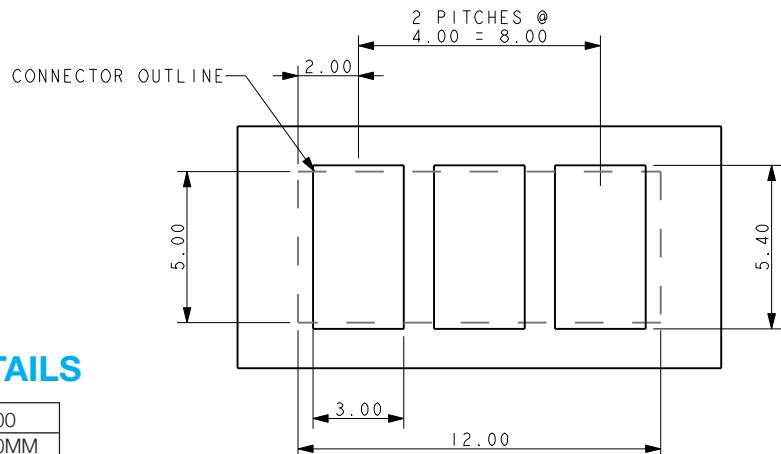


Code	Accepted Wire Gauge	A	Wire Insulation	B
001	18 Gauge Stranded	0.72	Ø 1.6-2.1	2.1
011	20 Gauge Stranded	0.60	Ø 1.6-2.1	2.1
022	22 Gauge Stranded	0.47	Ø 1.1-1.6	1.6
032	24 Gauge Stranded	0.37	Ø 1.1-1.6	1.6



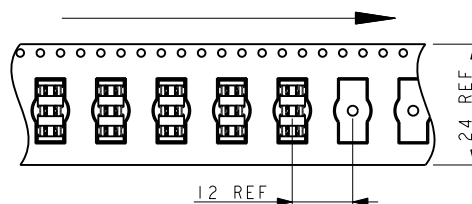
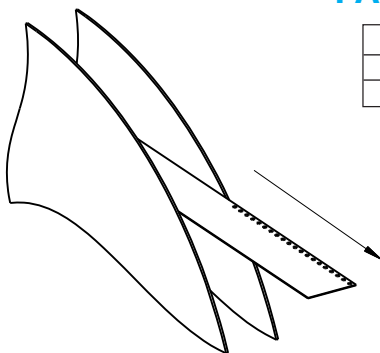
SMT PCB LAYOUT

PURE TIN PADS

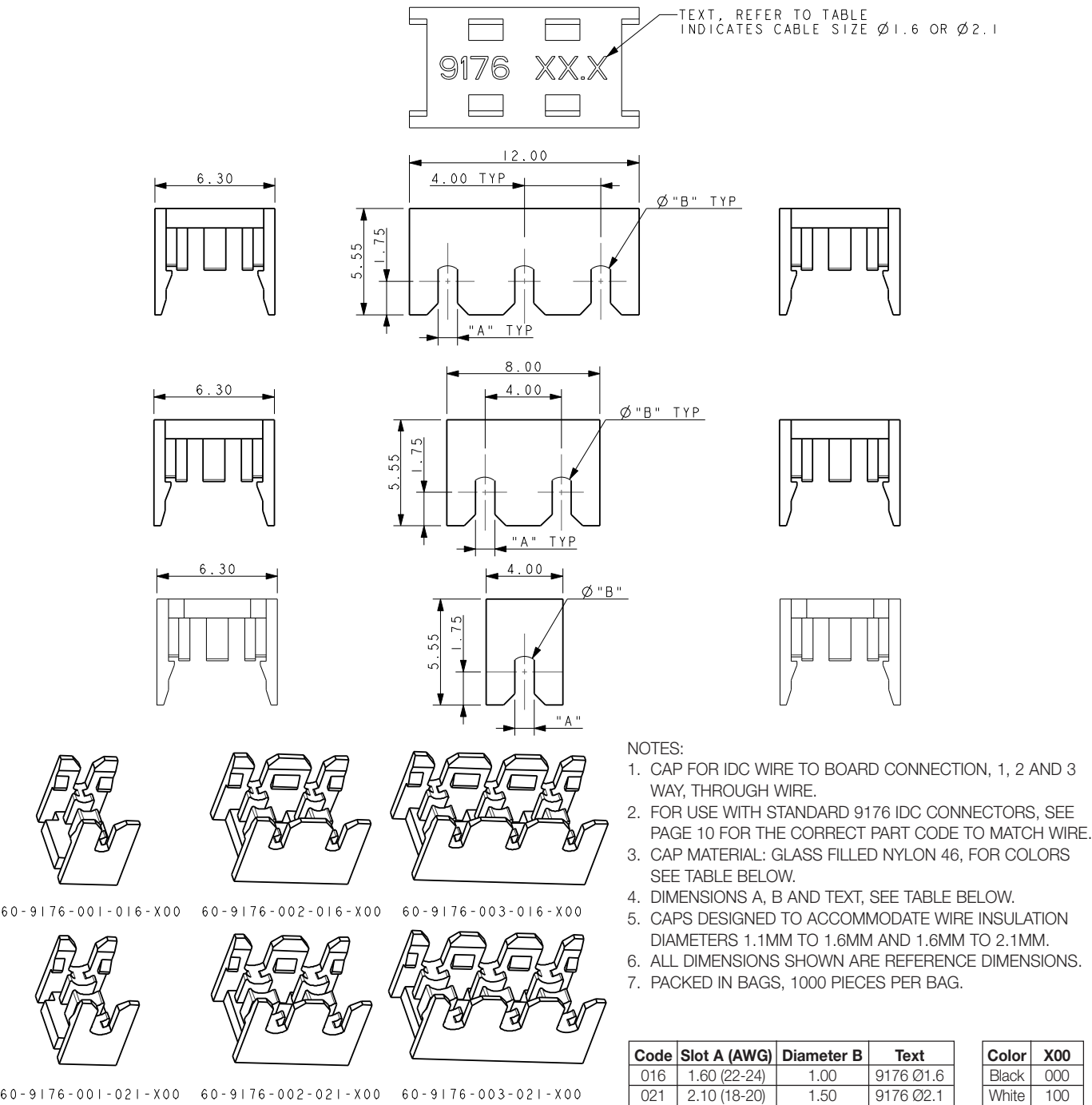


PACKING DETAILS

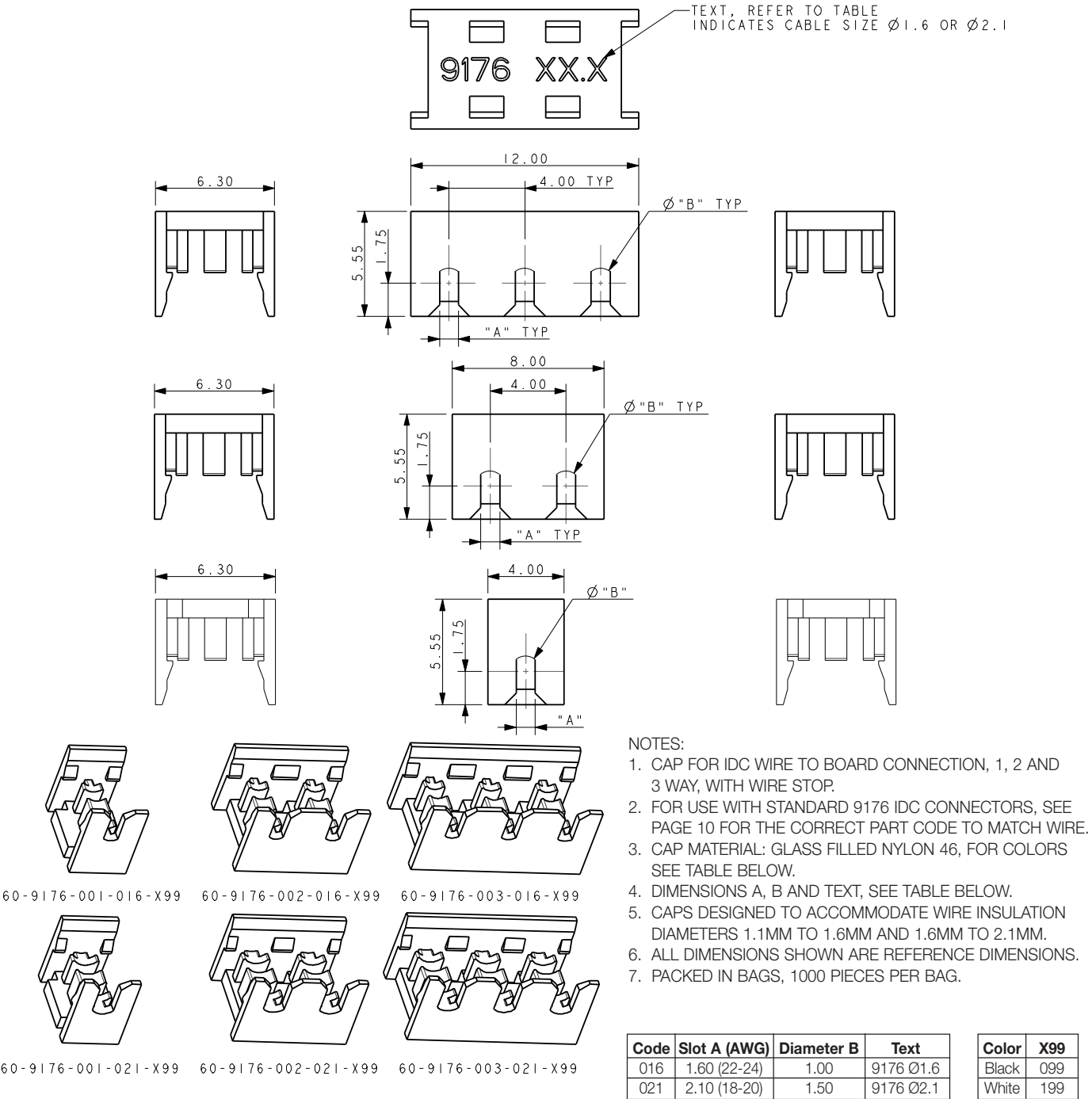
REEL QTY	1000
LEADER	480MM
TRAILER	120MM



60-9176-00X-0XX-X00 ACCESSORY CAP – THROUGH WIRE



60-9176-00X-0XX-X99 ACCESSORY CAP – WIRE STOP

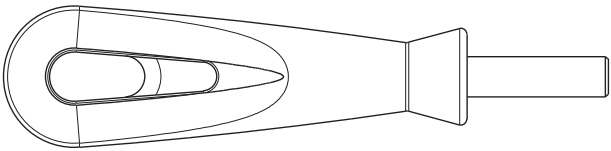


Discrete Wire IDC

Series 9176

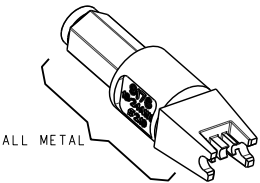


HAND INSERTION TOOLING FOR SINGLE 18/24 GAUGE WIRE



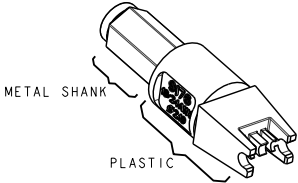
UNIVERSAL HANDLE

Details	Tool Part Number
6.35 A/F HEX BIT HOLDER	06 7000 7730 01 000



HIGH PRODUCTION Metal

Max Insulation Dia (AWG)	Tool Part Number
2.10 (18-20)	06 9176 7017 01 000
1.60 (22-24)	06 9176 7017 02 000

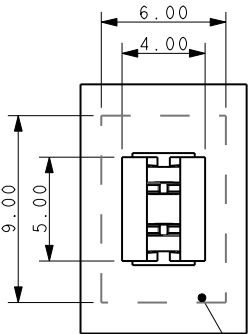


MEDIUM PRODUCTION Metal/Plastic

Max Insulation Dia (AWG)	Tool Part Number
2.10 (18-20)	06 9176 7016 01 000
1.60 (22-24)	06 9176 7016 02 000

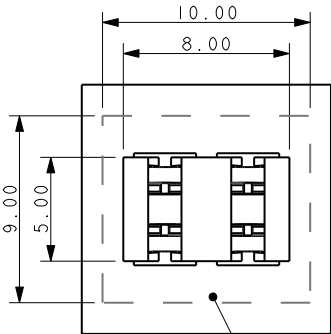
CLEARANCE AREA ON PCB FOR HAND TOOLING

1 WAY



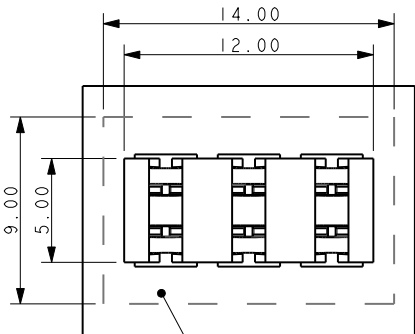
AREA TO BE KEPT CLEAR FOR TOOLING

2 WAY



AREA TO BE KEPT CLEAR FOR TOOLING

3 WAY



AREA TO BE KEPT CLEAR FOR TOOLING

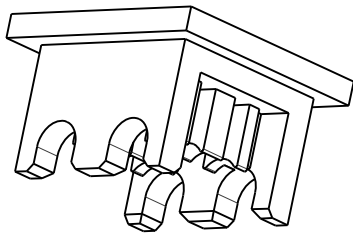
Discrete Wire IDC

Series 9176

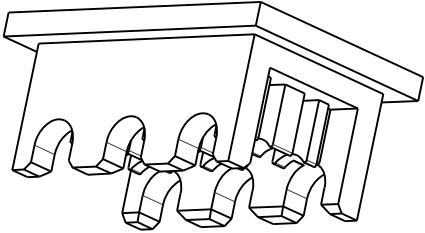


INSERTION TOOLING REQUIRES HAND PRESS WITH FLAT ROCK PLATES

2 WAY



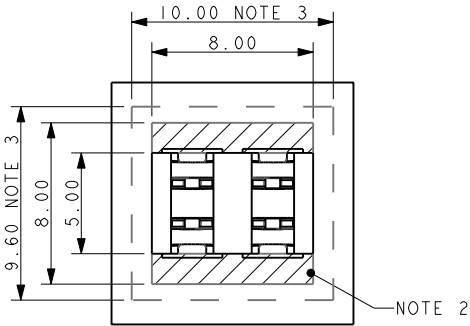
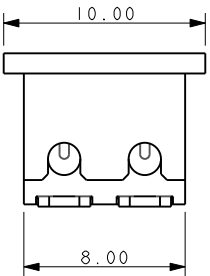
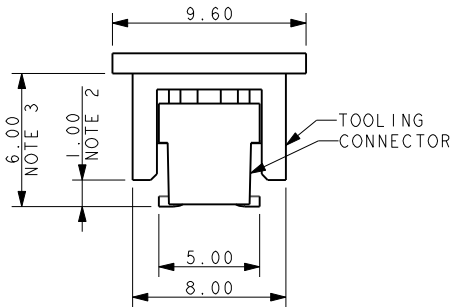
3 WAY



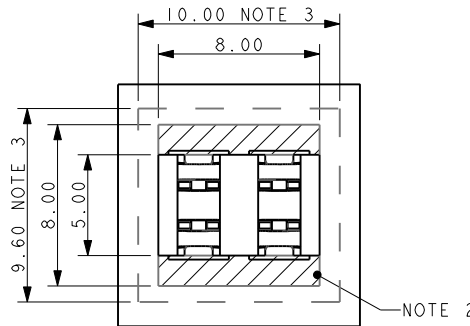
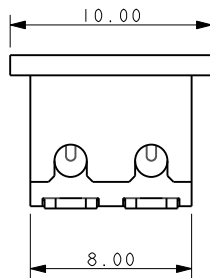
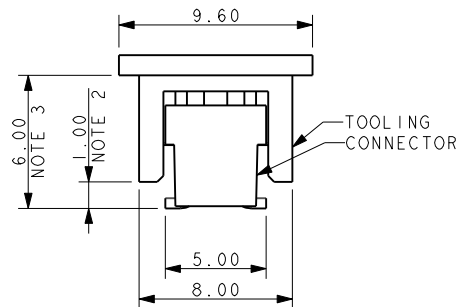
HIGH PRODUCTION Metal

No. of Ways	Max Insulation Dia (AWG)	Tool Part Number
2	2.10 (18-20)	06 9176 7017 01 002
	1.60 (22-24)	06 9176 7017 02 002
3	2.10 (18-20)	06 9176 7017 01 003
	1.60 (22-24)	06 9176 7017 02 003

2 WAY



3 WAY



- NOTES:
1. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
 2. MAXIMUM COMPONENT HEIGHT 1.00MM IN THIS AREA.
 3. MAXIMUM COMPONENT HEIGHT 6.00MM IN THIS AREA.
 4. THE SAME RESTRICTIONS APPLY TO ALL WIRE INSULATION DIAMETERS
 5. 2 AND 3 WAY TOOLS ONLY, FOR USE UNDER HAND PRESS WITH FLAT PLATES.
 6. FOR HAND TOOLING REFER TO PAGE 16.



Discrete Wire IDC Contact & Cap



Series 9176-400



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. This new single contact was developed as a standalone component to enhance the application uses with the IDC technology. The simplicity of inserting a wire into an SMT contact with a small tool or optional retention / termination cap allows a wide range of devices to be connected to the PCB without soldering. In SSL applications specifically, these contacts 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 optional cap provides 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 single 9176-400 series contact and cap accepts 22 AWG to 24 AWG wires with an insulation diameter ranging from 1.0mm to 1.5mm. These dual beam contacts support a 6 amp current rating with a large SMT solder base to provide maximum stability on the PCB. The optional locking strain relief cap acts as the termination tool for severe vibration applications.

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 is supplied in T&R pockets for standard SMT placement
- IDC contact provides a gas-tight connection to the PCB for long term reliability
- Optional termination cap provides additional strain relief for severe environments
- Tested to automotive levels on shock, vibration and temperature cycling for reliability
- Reduced total applied cost versus solder or crimp processes
- Individual contacts can be located anywhere on the PCB based on specific application

ELECTRICAL

- Current Rating: 6 Amps/Contact
- Voltage Rating: Dependant on component proximity

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 – CONTACT OPTIONS

70

Prefix

70 = Contact

9176

Series

001

Number of Ways

Code	No of Ways	Details
001	1	Page 20

4XX

Wire Gauge Size

Code	Accepted Wire Gauge
422	22 Gauge Stranded
432	24 Gauge Stranded
443	26-28 Gauge Stranded

006

Plating Option

06 = Pure Tin all over

HOW TO ORDER – CAP OPTIONS

60

Prefix

60 = Cap

9176

Series

001

Number of Ways

Code	No of Ways	Details
001	1	Page 20

4XX

Wire Gauge Size

Code	Wire Insulation
415	Ø 1.0-1.5

X00

Insulator Color

Code	Color	Application
000	Black	Industrial
100	White	Lighting

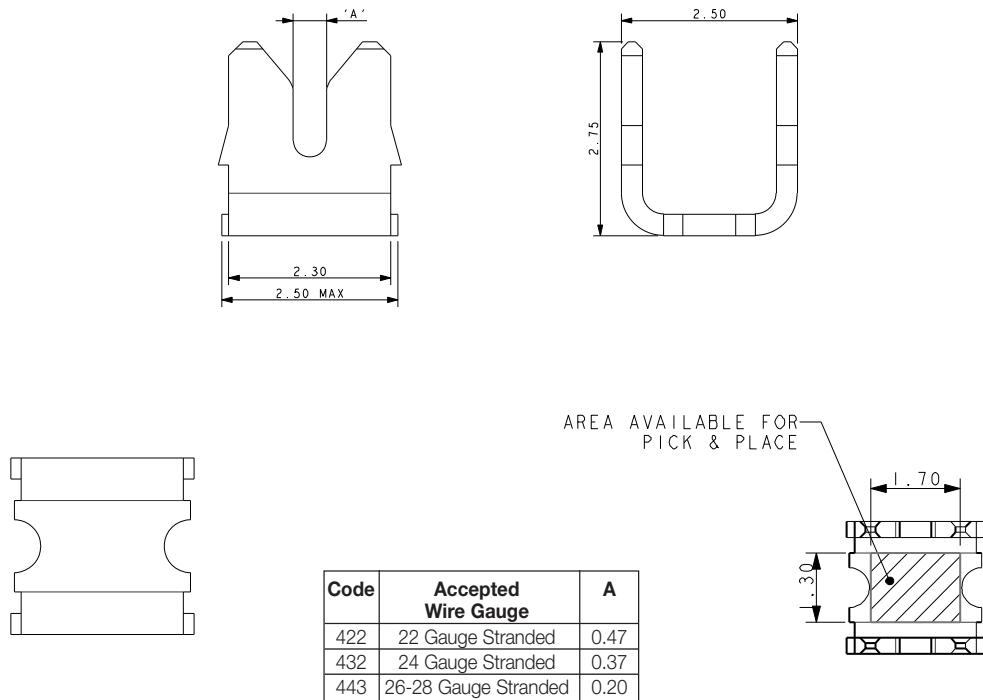


Discrete Wire IDC Contact & Cap

Series 9176-400



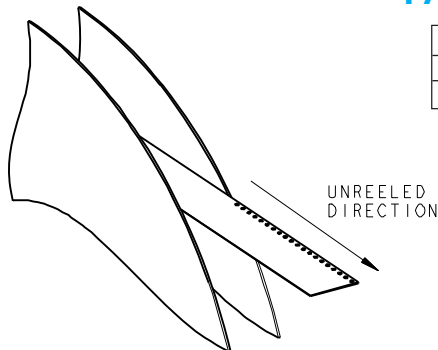
CONTACT DETAILS



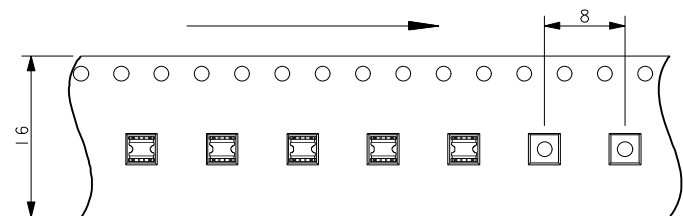
NOTES:

1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
3. CONTACT PLATING: PURE TIN.
4. CONNECTOR DESIGNED TO ACCEPT BETWEEN 22 AND 28 GAUGE STRANDED WIRE. SEE TABLE.
5. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
6. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-126 AND APPLICATION NOTES 201-01-124.
7. SMT PCB LAYOUT, REFER TO PAGE 20.
8. PACKING IN TAPE AND REEL, QUANTITY 2000 PER REEL.
9. WHEN REQUIRED, MATCHING CAP DETAILS ON DRAWING 60-9176-001-4XX-X06S.
10. ASSEMBLY TOOLING ON PAGE 21 FOR WIRE INTO CONTACT.

PACKING DETAILS



REEL QTY	2 000
LEADER	480MM
TRAILER	120MM



Discrete Wire IDC Contact & Cap

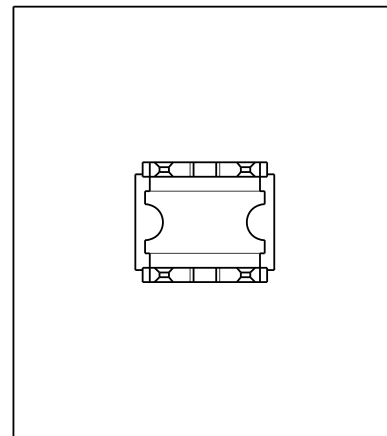
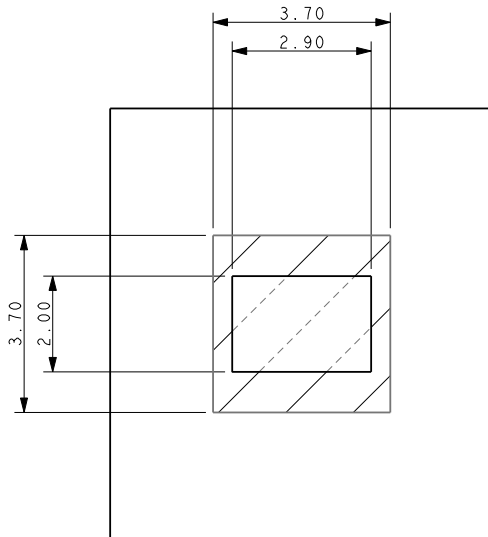


Series 9176-400

22-24 AWG IDC WIRE TO BOARD CONNECTOR SINGLE CONTACT

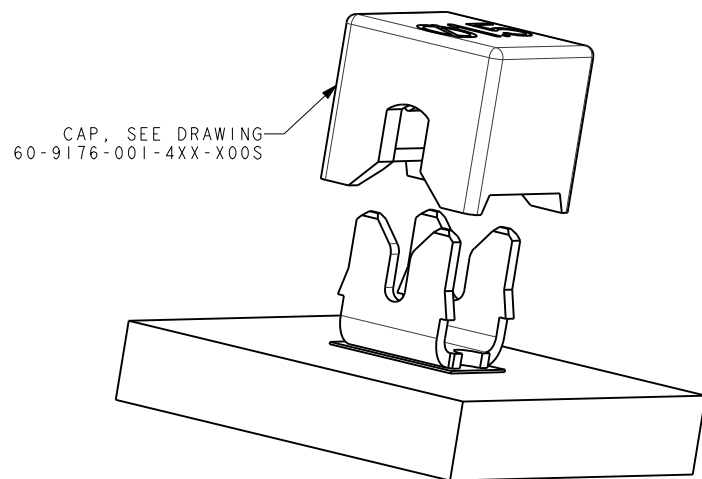
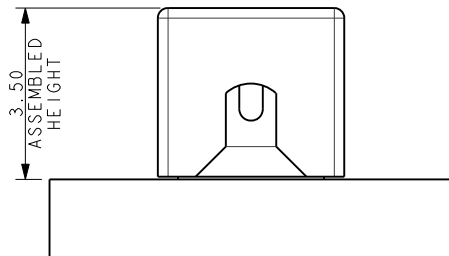
SMT PCB LAYOUT

PURE TIN PADS



ORIENTATION OF CONTACT ON PAD

ASSEMBLED/INSTALLED PRODUCTS



NOTES:

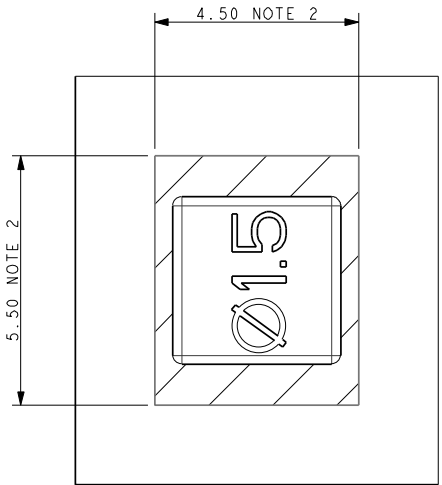
1. CONNECTOR CAN BE USED WITH CONTACT ONLY OR WITH OPTIONAL CAP.
2. OUTLINE OF CAP WHEN USED.
3. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND APPLICATION NOTES 201-01-124.
4. DIMENSIONS SHOWN ARE REFERENCED DIMENSIONS.
5. ASSEMBLY TOOLING FOR WIRE INTO CONTACT SEE PAGE 21.

Discrete Wire IDC Contact & Cap



Series 9176-400

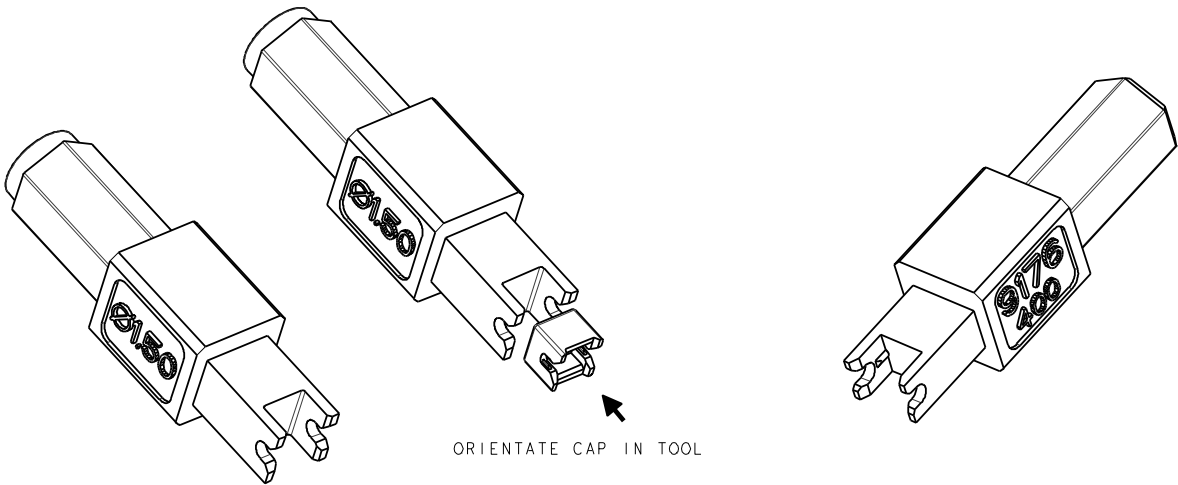
ASSEMBLY TOOLING – CAP NOT USED WIRE INTO CONTACT



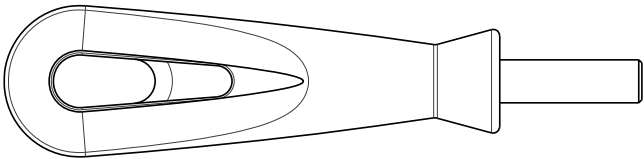
- NOTES:
1. ASSEMBLY TOOLING FOR CAP.
 2. MINIMUM AREA OF PCB TO BE KEPT CLEAR OF COMPONENTS, TACKS PERMISSIBLE.
 3. WIRE AND CAP INSERTED IN ONE OPERATION.
 4. REFER TO APPLICATION NOTE 201-01-124 FOR FURTHER INFORMATION.

PLASTIC TOOL – LOW/MEDIUM VOLUME 06-9176-7023-01-000

METAL TOOL – HIGH VOLUME 06-9176-7024-01-000



UNIVERSAL HANDLE 06 7000 7730 01 000



CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9176-400 IDC				HAND INSERTION TOOLING*		ACCESSORY CAPS		
AWG	Wire Insulation	Positions	Part Number	Plastic (medium volume)	Metal (high volume)	Cap Application Tool	White	Black
22	Ø 1.0 - 1.5	1p	709176001422006	069176702201000	069176702101000	069176702301000	609176001415100	609176001415000
24	Ø 1.0 - 1.5	1p	709176001432006	069176702201000	069176702101000	069176702301000	609176001415100	609176001415000
26	Ø 0.7 - 1.0	1p	709176001443006	069176702201000	069176702101000	069176702301000	609176001415100	609176001415000
28	Ø 0.7 - 1.0	1p	709176001443006	069176702201000	069176702101000	069176702301000	609176001415100	609176001415000
* Hand Insertion Tooling and Cap Application - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124								

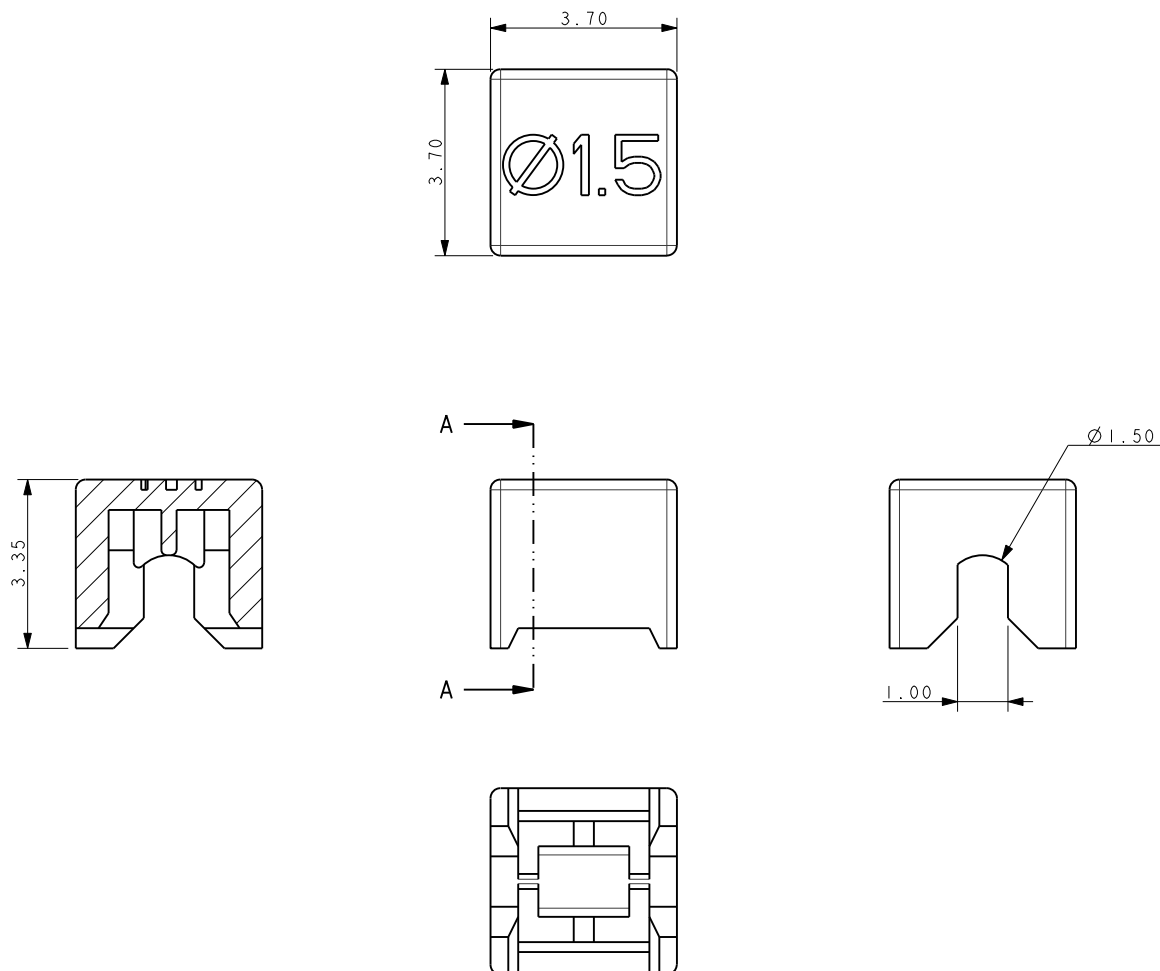


Discrete Wire IDC Contact & Cap



Series 9176-400

CAP DETAILS



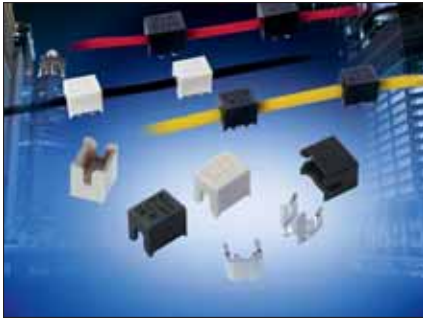
NOTES:

1. CAP FOR IDC WIRE TO BOARD CONNECTION.
2. CAP MATERIAL: GLASS FILLED NYLON 46, COLOR SEE PAGE 18.
3. CAPS DESIGNED TO ACCOMMODATE WIRE INSULATION DIAMETERS 1.0MM TO 1.5MM.
4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106, APPLICATION NOTES 201-01-124.
6. PACKING IN BAGS, QUANTITY 2000 PER BAG.
7. FOR INSTALLATION DETAILS REFER TO DRAWING 70-9176-001-4XX-006S.

Discrete Wire IDC Contact & Cap



Series 9176-500



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. This new single contact was developed as a standalone component to enhance the application uses with the IDC technology. The simplicity of inserting a wire into an SMT contact with a small tool or optional retention / termination cap allows a wide range of devices to be connected to the PCB without soldering. In SSL applications specifically, these contacts 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 optional cap provides 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 single 9176 series contact and cap accepts 18 AWG to 24 AWG wires with an insulation diameter ranging from 1.1mm to 2.1mm. These dual beam contacts support a 10 amp current rating with a large SMT solder base to provide maximum stability on the PCB. The optional locking strain relief cap acts as the termination tool for severe vibration applications.

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 is supplied in T&R pockets for standard SMT placement
- IDC contact provides a gas-tight connection to the PCB for long term reliability
- Optional termination cap provides additional strain relief for severe environments
- Tested to automotive levels on shock, vibration and temperature cycling for reliability
- Reduced total applied cost versus solder or crimp processes
- Individual contacts can be located anywhere on the PCB based on specific application

ELECTRICAL

- Current Rating: 10 Amps/Contact
- Voltage Rating: Dependant on component proximity

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 – CONTACT OPTIONS

70	9176	001	5XX	006																
Prefix	Series	Number of Ways	Wire Gauge Size	Plating Option																
70 = Contact				06 = Pure Tin all over																
		<table><tr><th>Code</th><th>No of Ways</th><th>Details</th></tr><tr><td>001</td><td>1</td><td>Page 25</td></tr></table>	Code	No of Ways	Details	001	1	Page 25	<table><tr><th>Code</th><th>Accepted Wire Gauge</th></tr><tr><td>501</td><td>18 Gauge Stranded</td></tr><tr><td>511</td><td>20 Gauge Stranded</td></tr><tr><td>522</td><td>22 Gauge Stranded</td></tr><tr><td>532</td><td>24 Gauge Stranded</td></tr></table>	Code	Accepted Wire Gauge	501	18 Gauge Stranded	511	20 Gauge Stranded	522	22 Gauge Stranded	532	24 Gauge Stranded	
Code	No of Ways	Details																		
001	1	Page 25																		
Code	Accepted Wire Gauge																			
501	18 Gauge Stranded																			
511	20 Gauge Stranded																			
522	22 Gauge Stranded																			
532	24 Gauge Stranded																			

HOW TO ORDER – CAP OPTIONS

60	9176	001	5XX	X00																					
Prefix	Series	Number of Ways	Wire Gauge Size	Insulator Color																					
60 = Cap																									
		<table><tr><th>Code</th><th>No of Ways</th><th>Details</th></tr><tr><td>001</td><td>1</td><td>Page 29</td></tr></table>	Code	No of Ways	Details	001	1	Page 29	<table><tr><th>Code</th><th>Wire Insulation (AWG)</th></tr><tr><td>516</td><td>1.1-1.6 (22-24)</td></tr><tr><td>521</td><td>1.6-2.1 (18-20)</td></tr></table>	Code	Wire Insulation (AWG)	516	1.1-1.6 (22-24)	521	1.6-2.1 (18-20)	<table><tr><th>Code</th><th>Color</th><th>Application</th></tr><tr><td>000</td><td>Black</td><td>Industrial</td></tr><tr><td>100</td><td>White</td><td>Lighting</td></tr></table>	Code	Color	Application	000	Black	Industrial	100	White	Lighting
Code	No of Ways	Details																							
001	1	Page 29																							
Code	Wire Insulation (AWG)																								
516	1.1-1.6 (22-24)																								
521	1.6-2.1 (18-20)																								
Code	Color	Application																							
000	Black	Industrial																							
100	White	Lighting																							



CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9176-500 IDC				HAND INSERTION TOOLING*		ACCESSORY CAPS		
AWG	Wire Insulation	Positions	Part Number	Plastic (medium volume)	Metal (high volume)	Cap Application Tool	White	Black
18	Ø 1.6 - 2.1	1p	709176001501006	069176702001000	069176701901000	069176701801000	609176001521100	609176001521000
20	Ø 1.6 - 2.1	1p	709176001511006	069176702001000	069176701901000	069176701801000	609176001521100	609176001521000
22	Ø 1.1 - 1.6	1p	709176001522006	069176702002000	069176701902000	069176701801000	609176001516100	609176001516000
24	Ø 1.1 - 1.6	1p	709176001532006	069176702002000	069176701902000	069176701801000	609176001516100	609176001516000

* Hand Insertion Tooling and Cap Application - Universal Hand Tool 067000773001000; Consult Application Notes 201-01-124

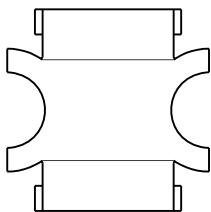
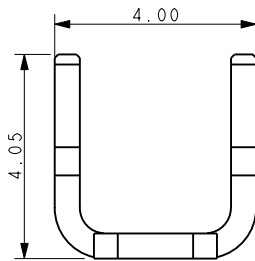
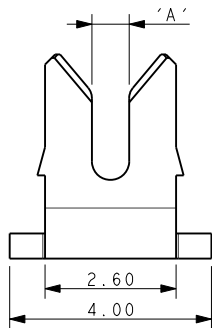


Discrete Wire IDC Contact & Cap

Series 9176-500

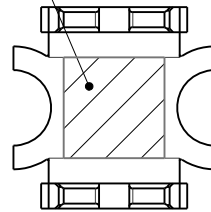


CONTACT DETAILS



Code	Accepted Wire Gauge	A
501	18 Gauge Stranded	0.72
511	20 Gauge Stranded	0.60
522	22 Gauge Stranded	0.47
532	24 Gauge Stranded	0.37

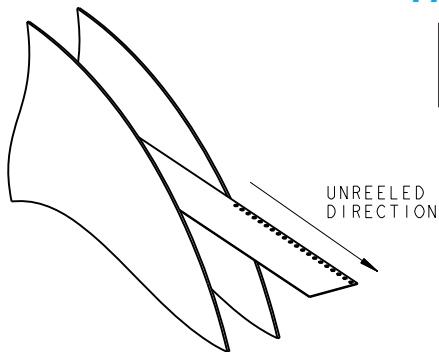
AREA AVAILABLE FOR
PICK & PLACE 2.00mm SQUARE



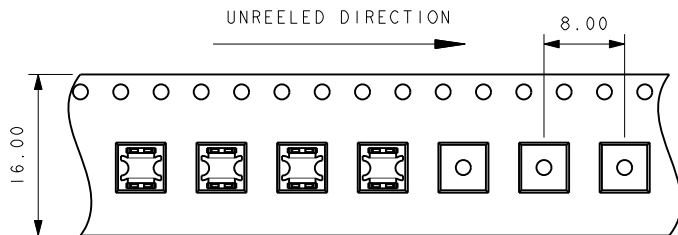
NOTES:

1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
3. CONTACT PLATING: PURE TIN.
4. CONNECTOR DESIGNED TO ACCEPT BETWEEN 18 AND 24 GAUGE STRANDED WIRE. SEE TABLE.
5. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
6. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND APPLICATION NOTES 201-01-124.
7. SMT PCB LAYOUT, REFER TO PAGE 25.
8. PACKING IN TAPE AND REEL, QUANTITY 1000 PER REEL.
9. WHEN REQUIRED, MATCHING CAP DETAILS ON DRAWING 60-9176-001-5XX-X00S.
10. ASSEMBLY TOOLING ON PAGE 26 (WITH CAP AND WITHOUT CAP).

PACKING DETAILS



REEL QTY	1000
LEADER	480MM
TRAILER	120MM



Discrete Wire IDC Contact & Cap

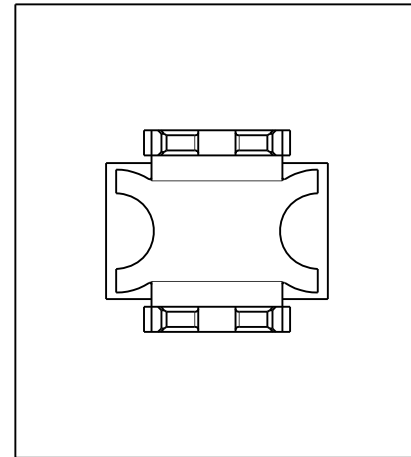
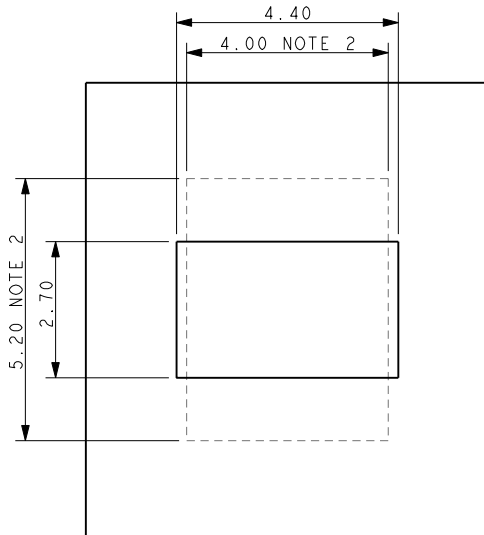


Series 9176-500

18-24 AWG IDC WIRE TO BOARD CONNECTOR SINGLE CONTACT

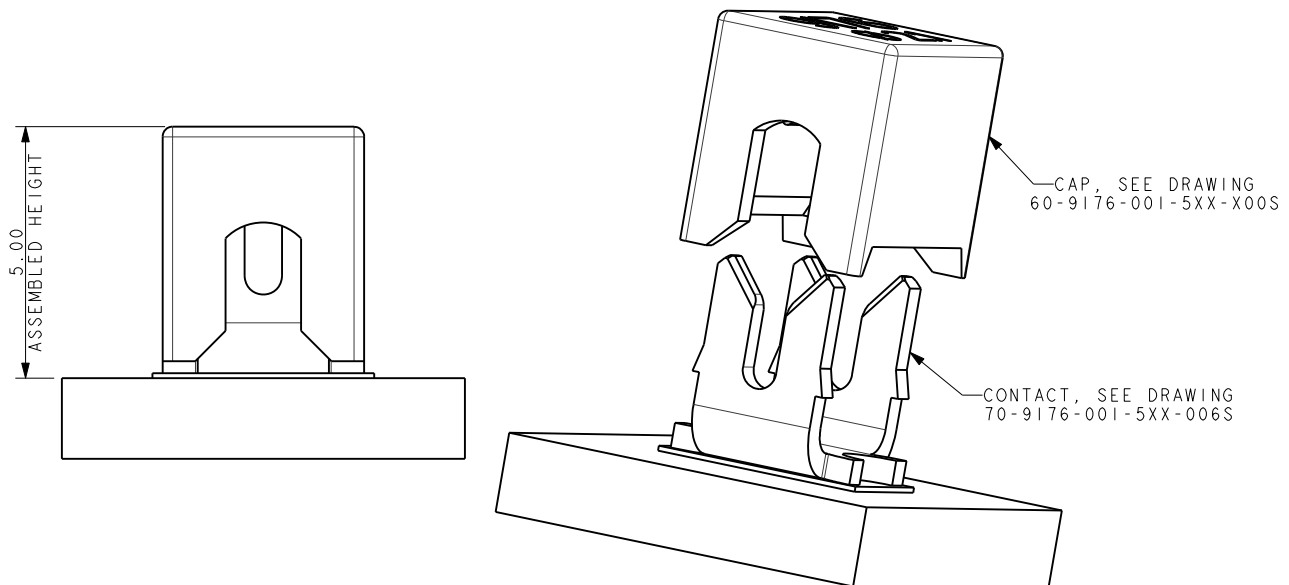
SMT PCB LAYOUT

PURE TIN PADS



ORIENTATION OF CONTACT ON PAD

ASSEMBLED/INSTALLED PRODUCTS



NOTES:

1. CONNECTOR CAN BE USED WITH CONTACT ONLY OR WITH OPTIONAL CAP.
2. OUTLINE OF CAP WHEN USED.
3. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106 AND 201-01-124.
4. DIMENSIONS SHOWN ARE REFERENCED DIMENSIONS.
5. ASSEMBLY TOOLING ON PAGE 26 (WITH CAP AND WITHOUT CAP).

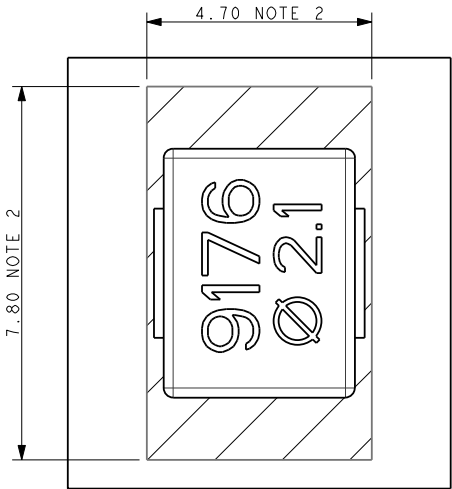


Discrete Wire IDC Contact & Cap



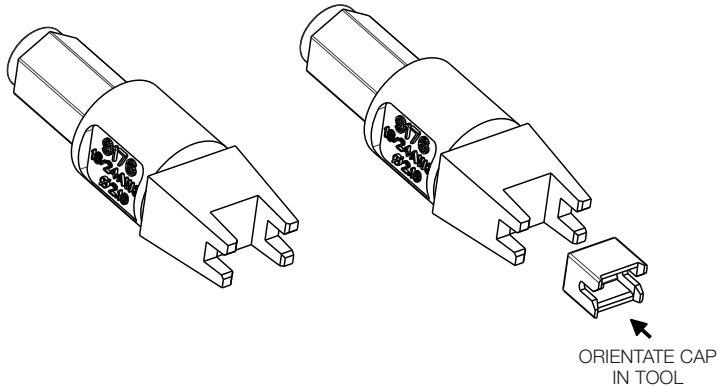
Series 9176-500

ASSEMBLY TOOLING – CAP USED



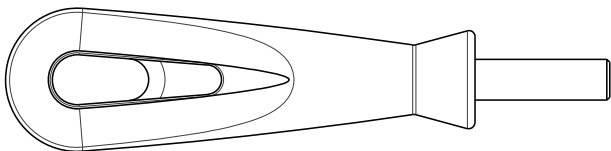
CAP APPLICATION TOOL

06-9176-7018-01-000



UNIVERSAL HANDLE

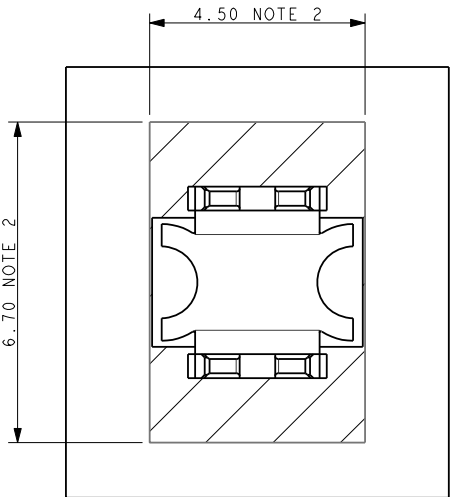
06 7000 7730 01 000



NOTES:

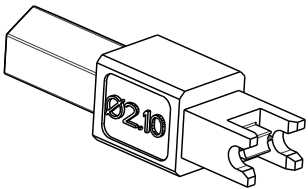
1. ASSEMBLY TOOLING FOR CAP.
2. AREA OF PCB TO BE KEPT CLEAR OF COMPONENTS, TACKS PERMISSIBLE.
3. WIRE AND CAP INSERTED IN ONE OPERATION.
4. REFER TO APPLICATION NOTE 201-01-124 FOR FURTHER INFORMATION.
5. REFER BELOW WHEN CONTACT USED WITHOUT CAP.

ASSEMBLY TOOLING – CAP NOT USED WIRE ONTO CONTACT



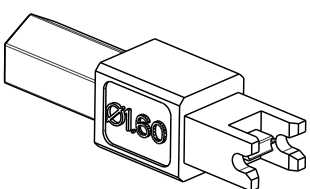
2.1 WIRE (18-20 AWG)

06-9176-7019-01-000
06-9176-7020-01-000



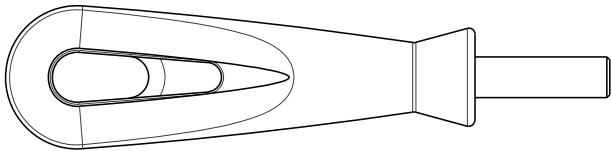
1.6 WIRE (22-24 AWG)

06-9176-7019-02-000
06-9176-7020-02-000



UNIVERSAL HANDLE

06 7000 7730 01 000



NOTES:

1. ASSEMBLY TOOLING FOR CONTACT ONLY, NO CAP USED.
2. MINIMUM AREA OF PCB TO BE KEPT CLEAR OF COMPONENTS, TRACK PERMISSIBLE.
3. REFER TO TABLE FOR CORRECT TOOL/WIRE COMBINATION.
4. REFER TO APPLICATION NOTE 201-01-124 FOR FURTHER INFORMATION.

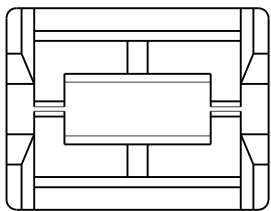
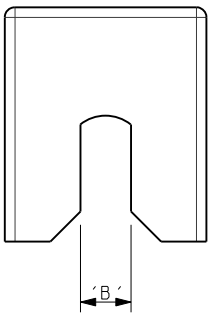
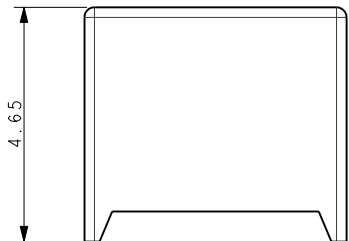
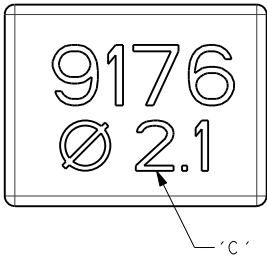
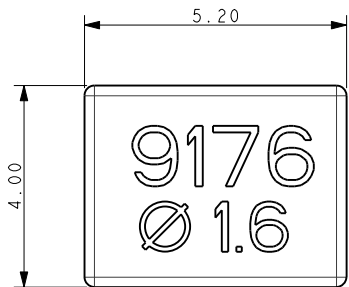
Wire Gauge	Wire Insulation ϕ	Metal Tool High Volume	Plastic Tool Small to Medium Volume	Handle
22-24 AWG	1.10 to 1.60	06-9176-7019-02-000	06-9176-7020-02-000	06-7000-7730-01-000
18-20 AWG	1.60 to 2.10	06-9176-7019-01-000	06-9176-7020-01-000	06-9176-7730-01-000

Discrete Wire IDC Contact & Cap



Series 9176-500

CAP DETAILS



Code	Insulator Diameter (AWG)	B	Text C
516	1.1 to 1.6 (22-24)	1.00	Ø 1.6
521	1.6 to 2.1 (18-20)	1.50	Ø 2.1

- NOTES:
1. CAP FOR IDC WIRE TO BOARD CONNECTION.
 2. CAP MATERIAL: GLASS FILLED NYLON 46, COLOR SEE PAGE 23.
 3. CAPS DESIGNED TO ACCOMMODATE WIRE INSULATION DIAMETERS 1.1MM TO 2.1MM.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-106, APPLICATION NOTES 201-01-124.
 6. PACKING IN BAGS, QUANTITY 1000 PER BAG.
 7. FOR INSTALATION DETAILS REFER TO DRAWING 70-9176-001-XX-006S.



Discrete Wire IDC



Series 9177



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 9177 series accepts 14 AWG to 20 AWG wires with an insulation diameter ranging from 2.75mm to 4.25mm. These dual contact connectors support a 15 amp current rating with two large SMT solder tails per wire to provide maximum stability on the PCB. Available in 1p-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°C reflow soldering processes

ELECTRICAL

- Current Rating: 15 Amp / Contact
- Voltage Rating: 600 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	9177	00X												
Prefix	Series	Number of Ways												
		<table><tr><th>Code</th><th>No of Ways</th><th>Details</th></tr><tr><td>001</td><td>1</td><td>Page 30</td></tr><tr><td>002</td><td>2</td><td>Page 31</td></tr><tr><td>003</td><td>3</td><td>Page 32</td></tr></table>	Code	No of Ways	Details	001	1	Page 30	002	2	Page 31	003	3	Page 32
Code	No of Ways	Details												
001	1	Page 30												
002	2	Page 31												
003	3	Page 32												

00X

└

Wire Gauge Size

Code	Accepted Wire Gauge	Wire Insulation
001	14 AWG	Ø 4.25
012	16 AWG	Ø 3.50
022	18 AWG	Ø 3.50
033	20 AWG	Ø 2.75

X
T

Insulator Color

Code	Color	Application
0	Black	Industrial
1	White	Lighting

06
Plating Option
06 = Pure Tin all over

Certification: UL File #E320991



Discrete Wire IDC

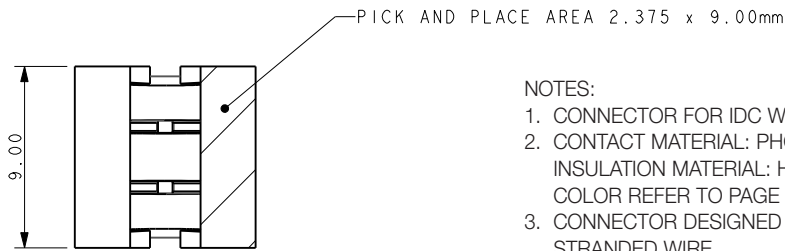


Series 9177

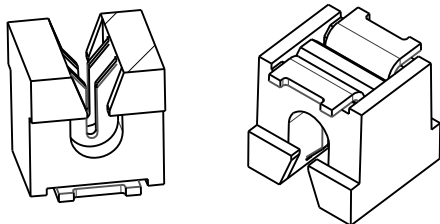
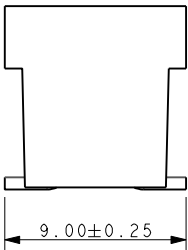
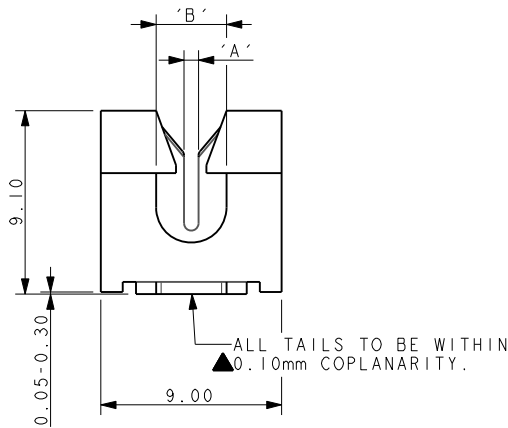
CONNECTOR/TOOLING PART NUMBER MATRIX

SERIES 9177 IDC					HAND INSERTION TOOLING*	
AWG	Wire Insulation	Positions	Color	Part Number	Plastic (low volume)	Metal (high volume)
14	Ø 4.25	1p	White	009177001001106	069177701601001	069177701701001
14	Ø 4.25	1p	Black	009177001001006	069177701601001	069177701701001
14	Ø 4.25	2p	White	009177002001106	069177701601002	069177701701002
14	Ø 4.25	2p	Black	009177002001006	069177701601002	069177701701002
14	Ø 4.25	3p	White	009177003001106	069177701601003	069177701701003
14	Ø 4.25	3p	Black	009177003001006	069177701601003	069177701701003
16	Ø 3.50	1p	White	009177001012106	069177701602001	069177701702001
16	Ø 3.50	1p	Black	009177001012006	069177701602001	069177701702001
16	Ø 3.50	2p	White	009177002012106	069177701602002	069177701702002
16	Ø 3.50	2p	Black	009177002012006	069177701602002	069177701702002
16	Ø 3.50	3p	White	009177003012106	069177701602003	069177701702003
16	Ø 3.50	3p	Black	009177003012006	069177701602003	069177701702003
18	Ø 3.50	1p	White	009177001022106	069177701602001	069177701702001
18	Ø 3.50	1p	Black	009177001022006	069177701602001	069177701702001
18	Ø 3.50	2p	White	009177002022106	069177701602002	069177701702002
18	Ø 3.50	2p	Black	009177002022006	069177701602002	069177701702002
18	Ø 3.50	3p	White	009177003022106	069177701602003	069177701702003
18	Ø 3.50	3p	Black	009177003022006	069177701602003	069177701702003
20	Ø 2.75	1p	White	009177001033106	069177701603001	069177701703001
20	Ø 2.75	1p	Black	009177001033006	069177701603001	069177701703001
20	Ø 2.75	2p	White	009177002033106	069177701603002	069177701703002
20	Ø 2.75	2p	Black	009177002033006	069177701603002	069177701703002
20	Ø 2.75	3p	White	009177003033106	069177701603003	069177701703003
20	Ø 2.75	3p	Black	009177003033006	069177701603003	069177701703003
* Insertion Tooling - Requires Hand Press with Flat Rock Plates; Consult Application Notes 201-01-124						

14-20 AWG 1 WAY IDC CONNECTOR



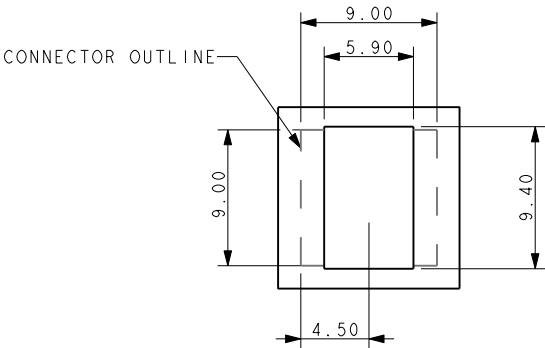
- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 28.
 3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 14 AND 20 GAUGE STRANDED WIRE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-109.
 6. FOR PCB SPACE RESTRICTED BY ASSEMBLY TOOLING REFER TO PAGE 33.



Code	Accepted Wire Gauge	A	Wire Insulation	B
001	14 Gauge Stranded	1.10	Ø 4.25 max	4.25
012	16 Gauge Stranded	0.82	Ø 3.50 max	3.50
022	18 Gauge Stranded	0.72	Ø 3.50 max	3.50
033	20 Gauge Stranded	0.60	Ø 2.75 max	2.75

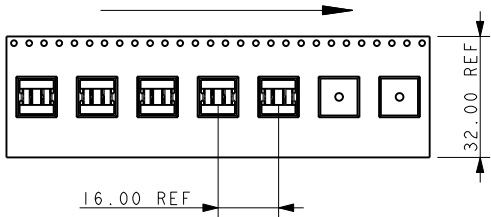
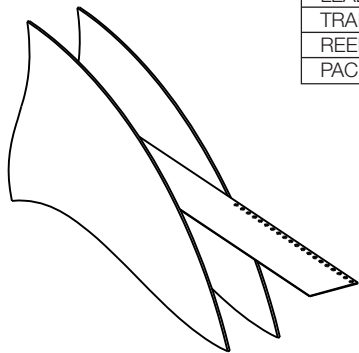
SMT PCB LAYOUT

PURE TIN PADS



PACKING DETAILS

REEL QTY	400
LEADER	500MM
TRAILER	400MM
REEL/BOX	4
PACK QTY	1600

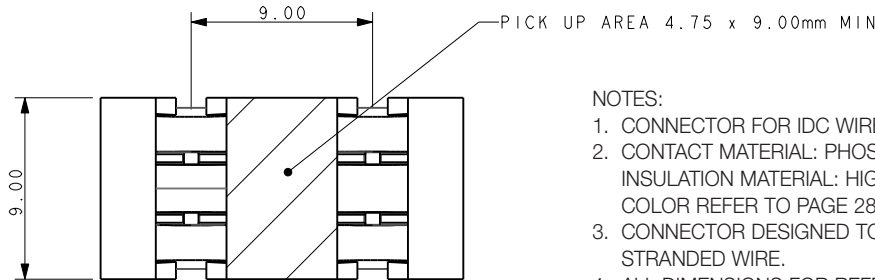


Discrete Wire IDC

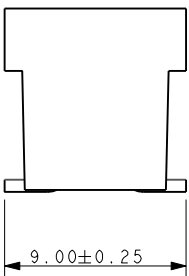
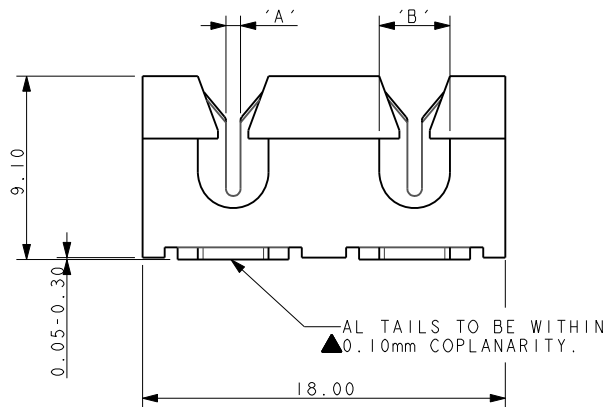
Series 9177



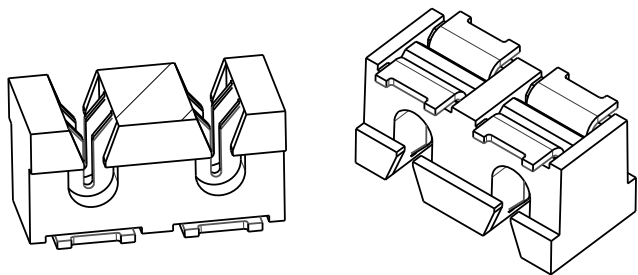
14-20 AWG 2 WAY IDC CONNECTOR



- NOTES:
1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
 2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 28.
 3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 14 AND 20 GAUGE STRANDED WIRE.
 4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
 5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-109.
 6. FOR PCB SPACE RESTRICTED BY ASSEMBLY TOOLING REFER TO PAGE 33.

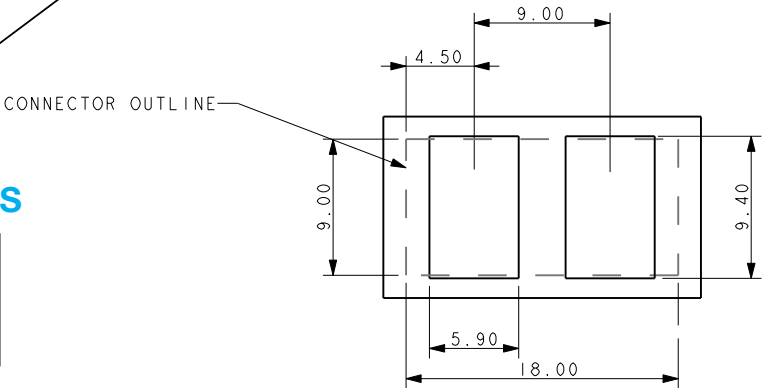


Code	Accepted Wire Gauge	A	Wire Insulation	B
001	14 Gauge Stranded	1.10	Ø 4.25 max	4.25
012	16 Gauge Stranded	0.82	Ø 3.50 max	3.50
022	18 Gauge Stranded	0.72	Ø 3.50 max	3.50
033	20 Gauge Stranded	0.60	Ø 2.75 max	2.75



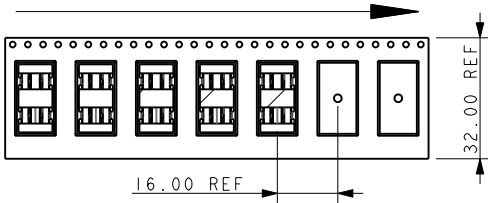
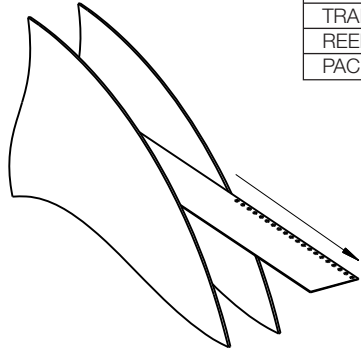
SMT PCB LAYOUT

PURE TIN PADS



PACKING DETAILS

REEL QTY	400
LEADER	500MM
TRAILER	400MM
REEL/BOX	4
PACK QTY	1600

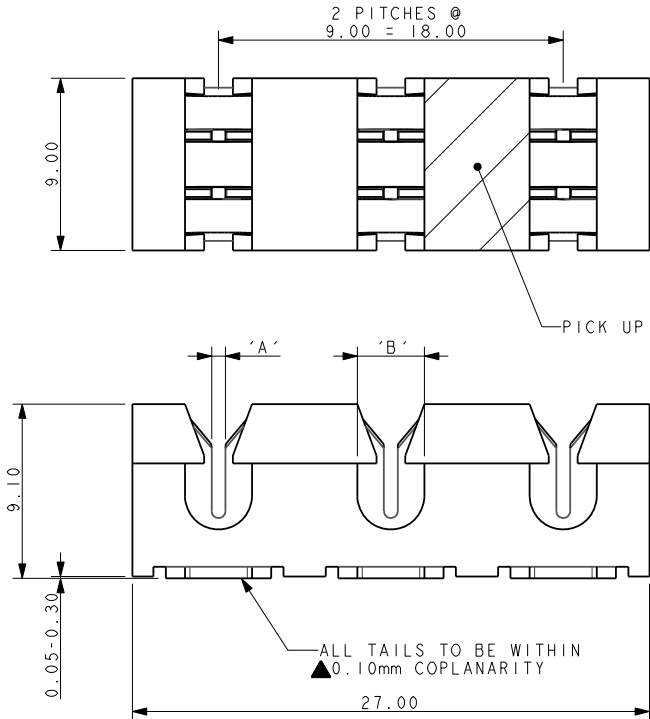


Discrete Wire IDC

Series 9177

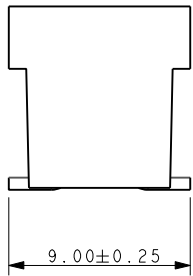


14-20 AWG 3 WAY IDC CONNECTOR

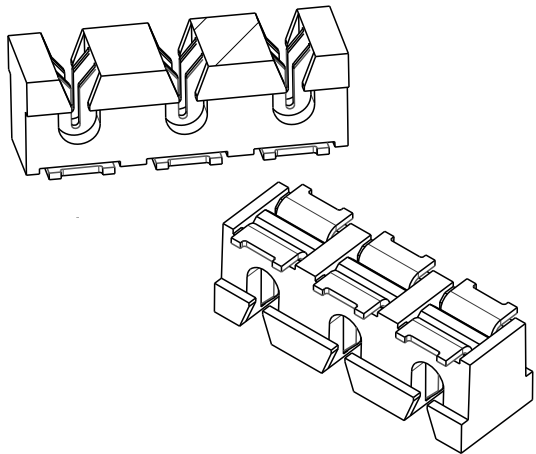


NOTES:

1. CONNECTOR FOR IDC WIRE TO BOARD CONNECTION.
2. CONTACT MATERIAL: PHOSPHOR BRONZE.
INSULATION MATERIAL: HIGH TEMPERATURE NYLON 46.
COLOR REFER TO PAGE 28.
3. CONNECTOR DESIGNED TO ACCEPT BETWEEN 14 AND 20 GAUGE STRANDED WIRE.
4. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
5. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-109.
6. FOR PCB SPACE RESTRICTED BY ASSEMBLY TOOLING REFER TO PAGE 33.

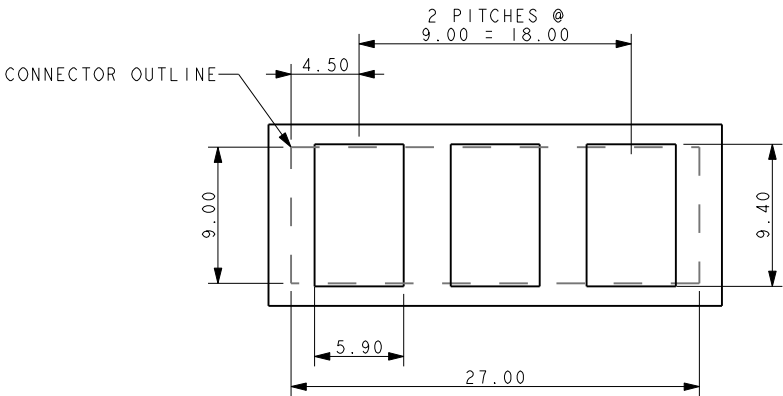


Code	Accepted Wire Gauge	A	Wire Insulation	B
001	14 Gauge Stranded	1.10	Ø 4.25 max	4.25
012	16 Gauge Stranded	0.82	Ø 3.50 max	3.50
022	18 Gauge Stranded	0.72	Ø 3.50 max	3.50
033	20 Gauge Stranded	0.60	Ø 2.75 max	2.75



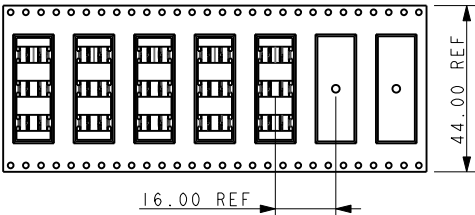
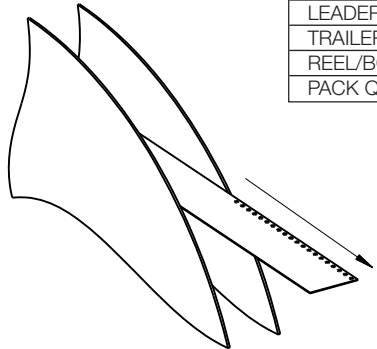
SMT PCB LAYOUT

PURE TIN PADS



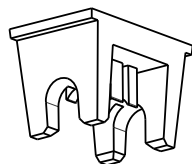
PACKING DETAILS

REEL QTY	400
LEADER	500MM
TRAILER	400MM
REEL/BOX	4
PACK QTY	1600

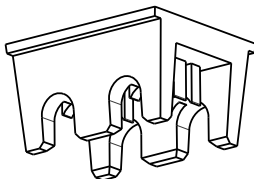


INSERTION TOOLING – REQUIRES HAND PRESS WITH FLAT ROCK PLATES

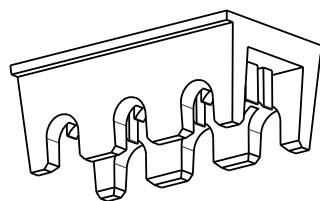
1 WAY



2 WAY



3 WAY



HIGH PRODUCTION Metal

No. of Ways	Max Insulation Dia (AWG)	Tool Part Number
1	4.25 (14)	06 9177 7017 01 001
	3.50 (16-18)	06 9177 7017 02 001
	2.75 (20)	06 9177 7017 03 001
2	4.25 (14)	06 9177 7017 01 002
	3.50 (16-18)	06 9177 7017 02 002
	2.75 (20)	06 9177 7017 03 002
3	4.25 (14)	06 9177 7017 01 003
	3.50 (16-18)	06 9177 7017 02 003
	2.75 (20)	06 9177 7017 03 003

MEDIUM PRODUCTION Plastic

No. of Ways	Max Insulation Dia (AWG)	Tool Part Number
1	4.25 (14)	06 9177 7016 01 001
	3.50 (16-18)	06 9177 7016 02 001
	2.75 (20)	06 9177 7016 03 001
2	4.25 (14)	06 9177 7016 01 002
	3.50 (16-18)	06 9177 7016 02 002
	2.75 (20)	06 9177 7016 03 002
3	4.25 (14)	06 9177 7016 01 003
	3.50 (16-18)	06 9177 7016 02 003
	2.75 (20)	06 9177 7016 03 003

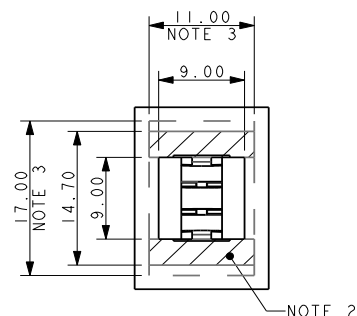
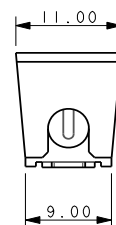
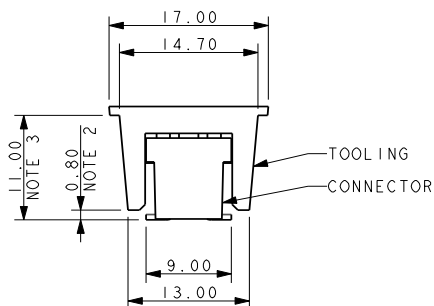
The assembly tooling restricts the available space/component heights on the PCB.
For details see below.

NOTES:

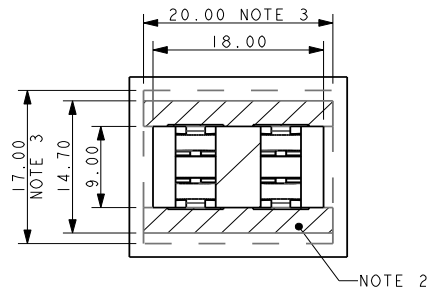
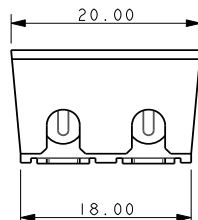
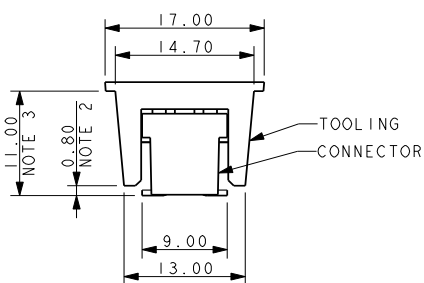
1. ALL DIMENSIONS FOR REFERENCE DIMENSIONS.
2. MAXIMUM COMPONENT HEIGHT 0.80MM IN THIS AREA.
3. MAXIMUM COMPONENT HEIGHT 11.00 MM IN THIS AREA.
4. THE SAME RESTRICTIONS APPLY TO ALL WIRE INSULATION DIAMETERS.

INSERTION TOOLING – PCB RESTRICTED AREAS FOR ASSEMBLY TOOLING

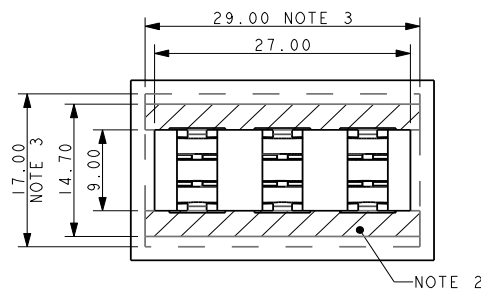
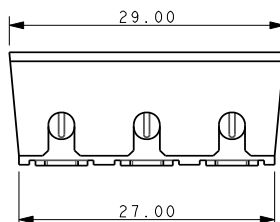
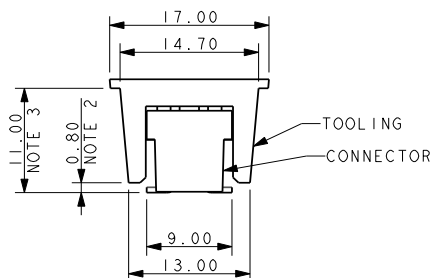
1 WAY



2 WAY



3 WAY



Discrete Wire-to-Board; Poke-Home



Series 9276



The new 9276 series connector provides a quick and reliable wire-to-board termination in a sleek 2.5mm pitch SMT package for a broad range of industrial and commercial markets. With almost every product on the market today having to deal with a small number of discrete wires to connect components to a board, the 9276 series connectors meets this challenge by simply stripping the wire and inserting them into the connector. This makes the connector very termination friendly within the factory as well as in the field by electrical installers. Developed for harsh industrial and Solid State Lighting (SSL) applications, the connector was designed with a high spring force Beryllium Copper upper spring contact to accept a wide range (18-24 AWG solid or stranded) of wire to meet multiple applications with a single connector. By incorporating a dual-contact design we were able to maximize current rating (6 Amps) and minimize PCB space. For example, the 4p connector has a footprint of 90 sq-mm while competing products are 160 sq-mm. The dual-contact design also provides two solder points for each wire eliminating the need for external anchor tabs. AVX provides a small insertion / extraction tool which will allow the wires to easily be replaced up to 5 times.

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 201-01-127

FEATURES AND BENEFITS

- Simple strip, insert and removal design
- SMT RoHS termination to the PCB with minimal footprint
- Accepts 18-24AWG Solid and Stranded wires
- Expanded size offering to maximize application potential; 1, 2, 3, 4, 6 & 8 positions
- High spring force top contact provides a lance type retention to capture and retain the wire
- Available in standard white and optional black color

ELECTRICAL

- Current Rating: 6 Amps / Contact
- Voltage Rating: 250v AC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94V0
- Contact Material: Beryllium Copper / Phosphor Bronze
- Plating: Tin over Nickel
- Replaceability: 5 Cycles

HOW TO ORDER

00

Wire to Board Connector

9276

Series

Thin Blade Removal Tool Part Number

06-9276-7001-01-000

00X

Number of Ways

Code	No of Ways	Details
001	1	Page 36
002	2	Page 37
003	3	Page 38
004	4	Page 39
006	6	Page 40
008	8	Page 41

0

Horizontal Mounting

21

Wire Size

Code	Wire Gauge	Max Conductor	Max Insulation
21	18 - 24 AWG	1.20mm Diameter	2.10mm Diameter

X

Insulator Color

Code	Color	Application
0	Black	Industrial
1	White	Lighting

06

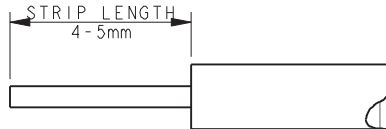
Plating Option

Tin all over

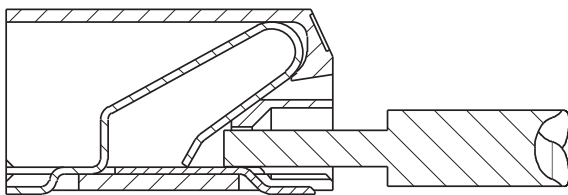


WIRE ASSEMBLY

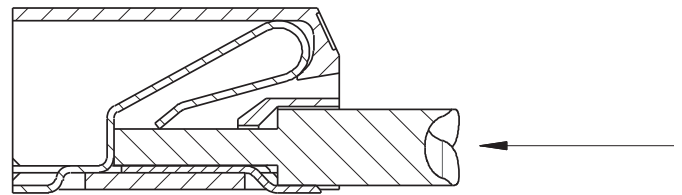
FOR FURTHER DETAILS REFER TO APPLICATION NOTES 201-01-127



TRIM INSULATION.
DO NOT CRUSH CENTER OF WIRE.
STRANDED WIRES TWISTED TOGETHER BEFORE INSERTION.
CHECK ALL STANDS OF WIRE ARE CORRECTLY ALIGNED
AFTER THE INSULATION IS REMOVED.

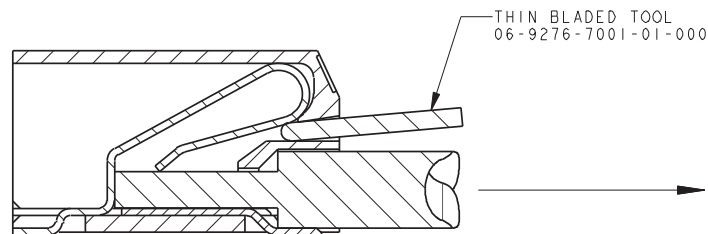


PUSH WIRE INTO HOLE IN FRONT OF CONNECTOR
DO NOT BEND CONNECTOR



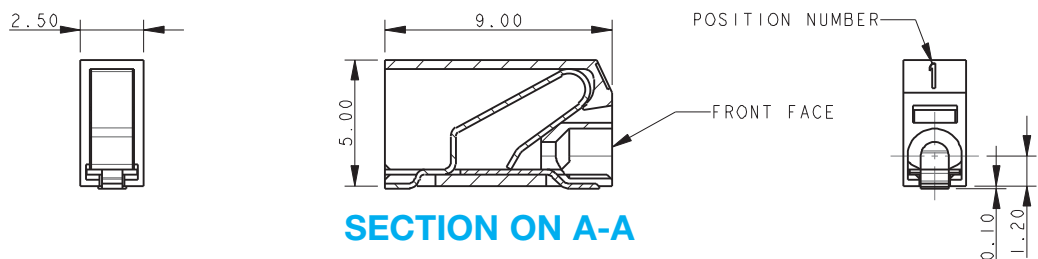
CONTINUED TO PUSH WIRE UNTIL STOP IS REACHED.

WIRE EXTRACTION

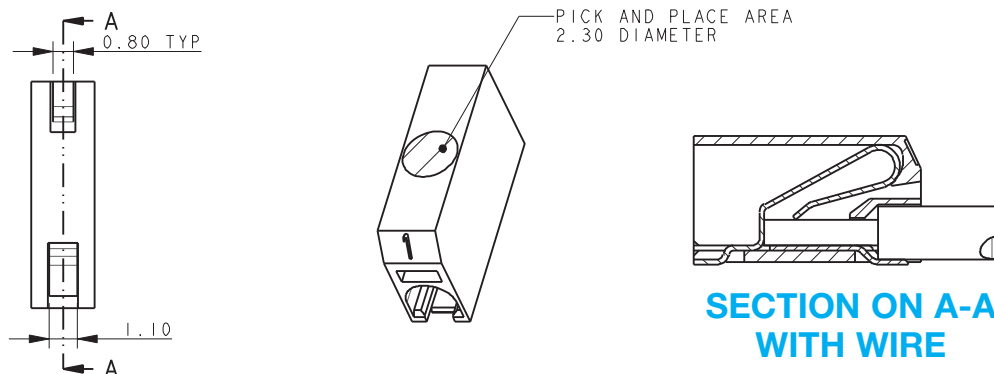


PUSH BLADE (NOT SHARP) INTO SLOT ABOVE WIRE.
WHEN WIRE IS FREE, PULL TO EXTRACT.

1 WAY WIRE TO BOARD CONNECTOR



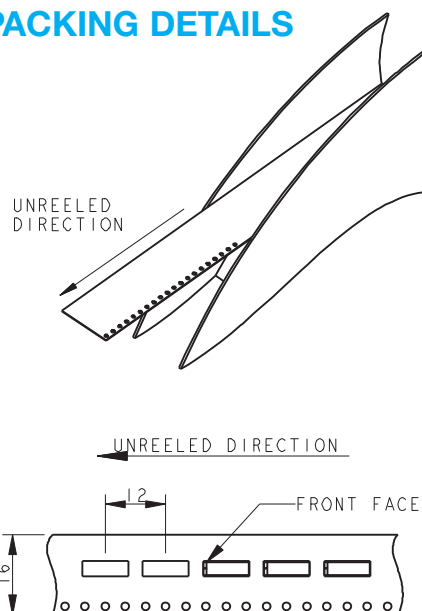
SECTION ON A-A



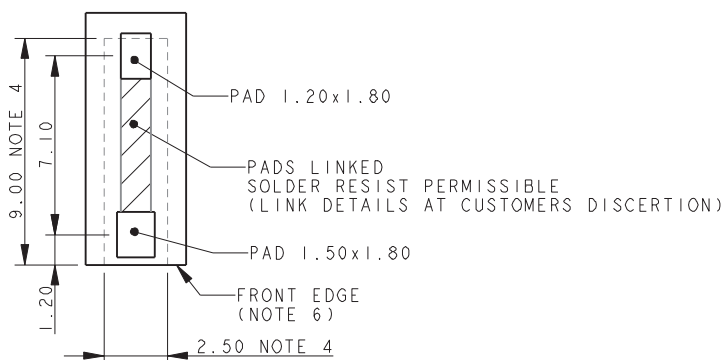
NOTES:

1. 9276 ONE WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 35.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

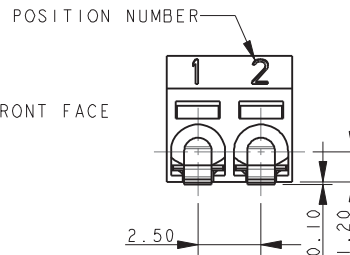
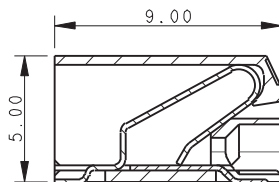
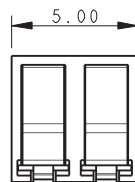
PACKING DETAILS



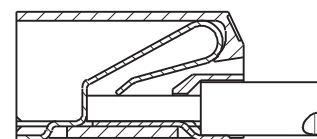
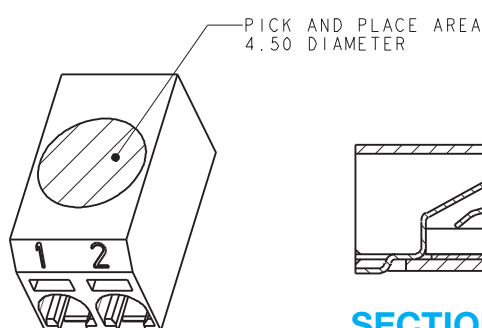
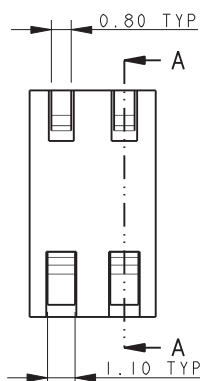
1 WAY PCB BOARD LAYOUT



2 WAY WIRE TO BOARD CONNECTOR



SECTION ON A-A

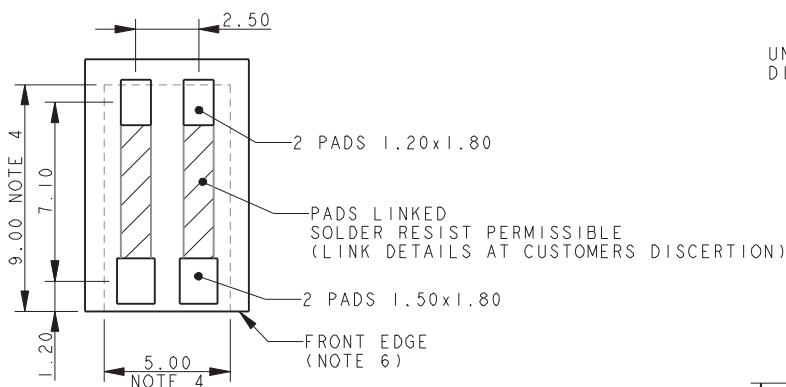


SECTION ON A-A WITH WIRE

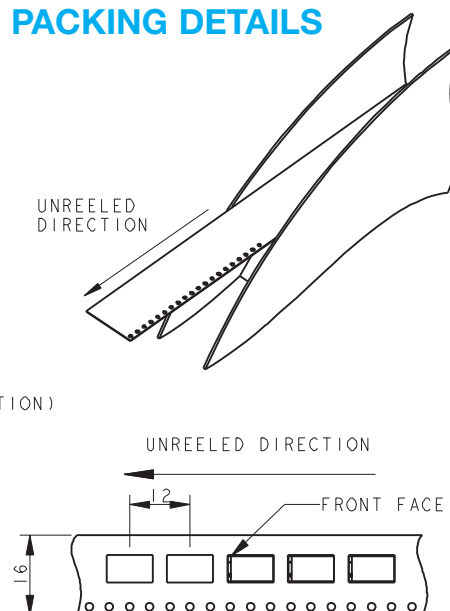
NOTES:

1. 9276 TWO WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 35.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

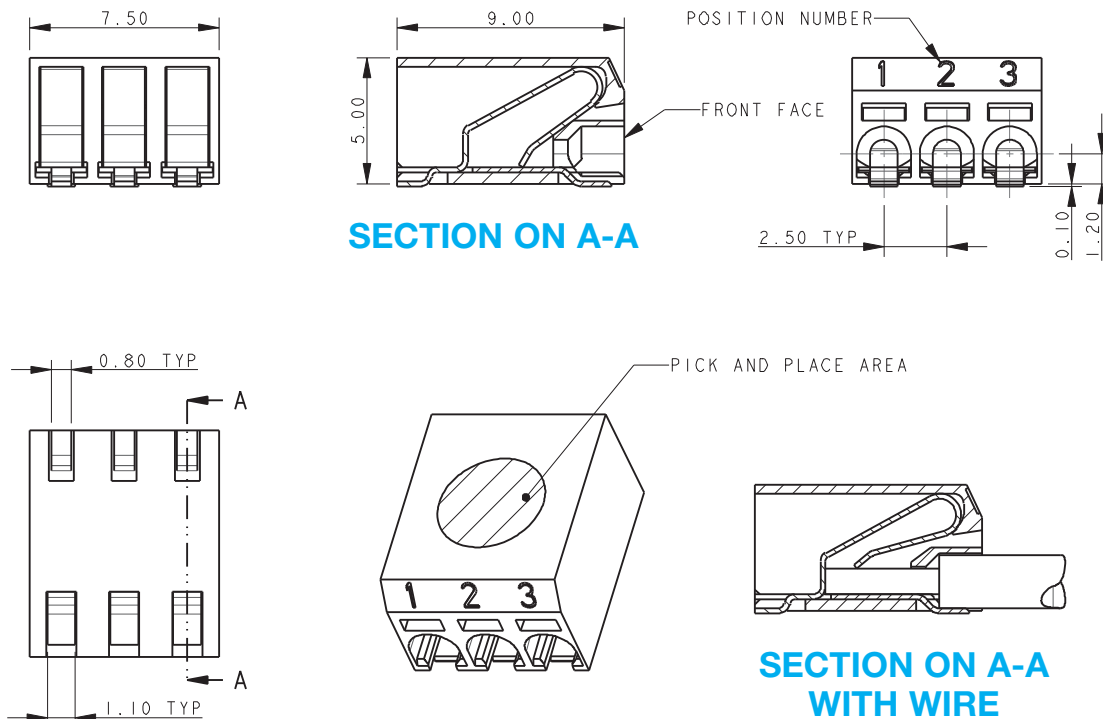
2 WAY PCB BOARD LAYOUT



PACKING DETAILS



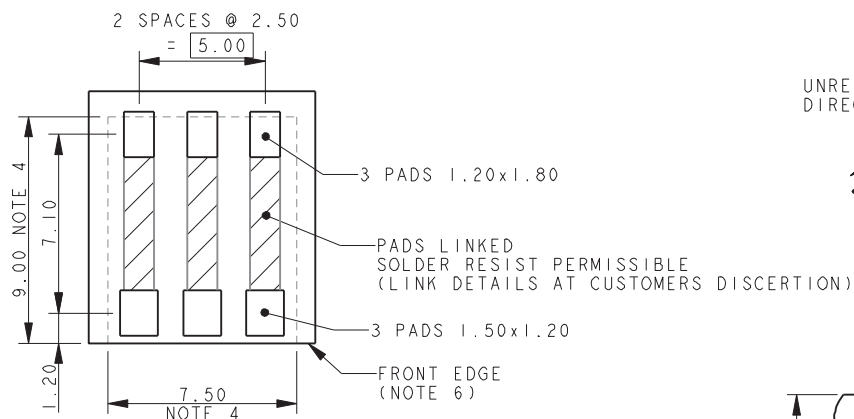
3 WAY WIRE TO BOARD CONNECTOR



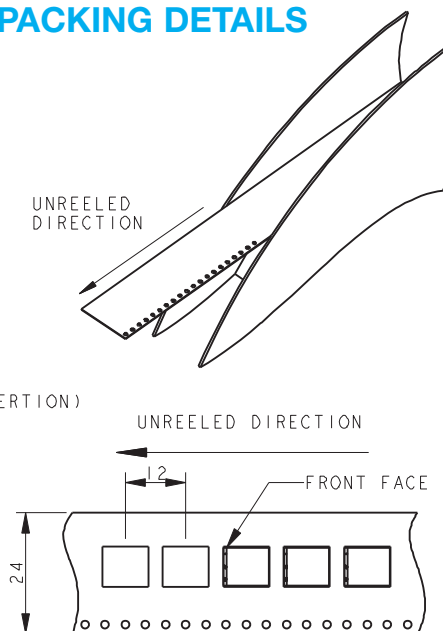
NOTES:

1. 9276 THREE WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 34.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

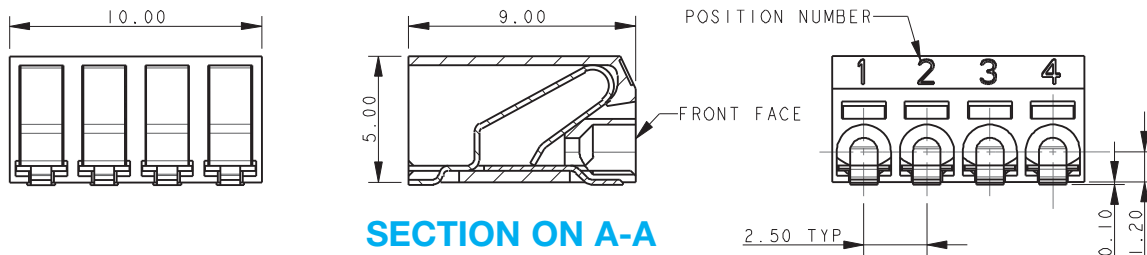
3 WAY PCB BOARD LAYOUT



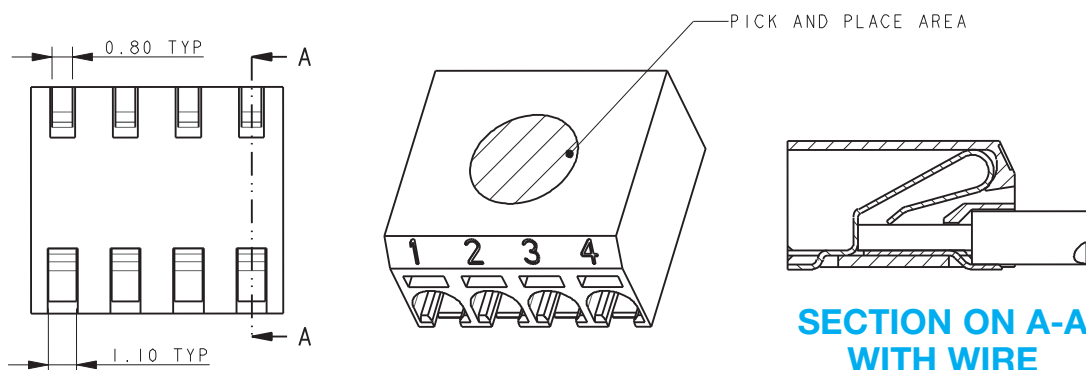
PACKING DETAILS



4 WAY WIRE TO BOARD CONNECTOR



SECTION ON A-A

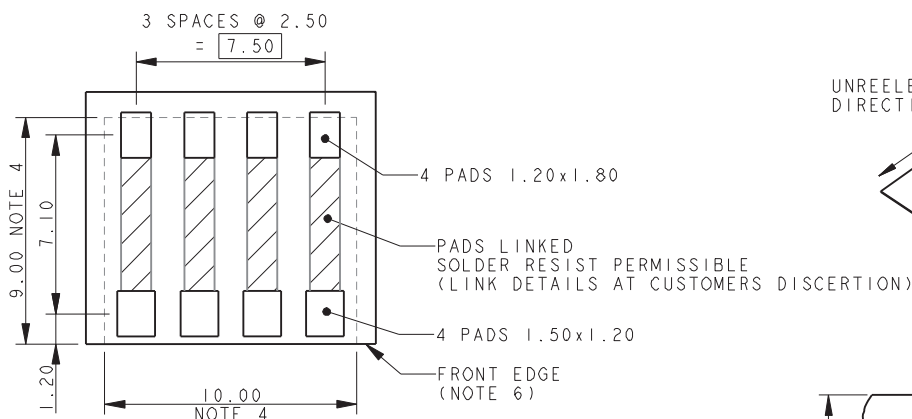


SECTION ON A-A WITH WIRE

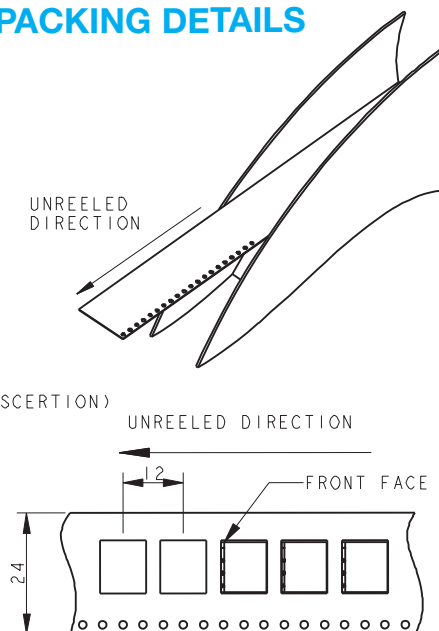
NOTES:

1. 9276 FOUR WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 35.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

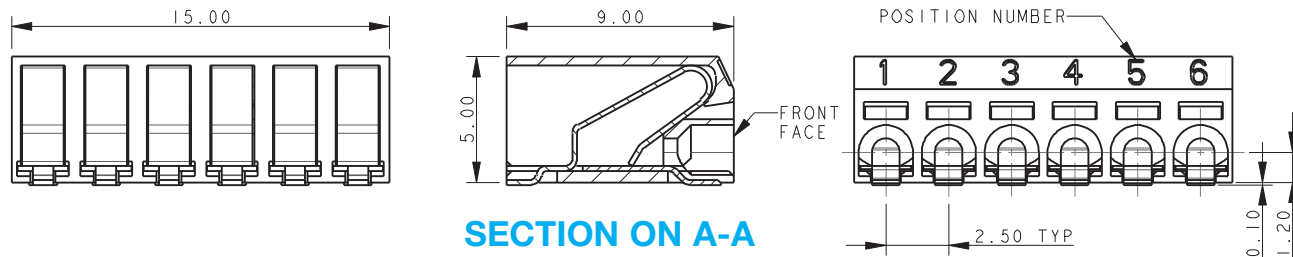
4 WAY PCB BOARD LAYOUT



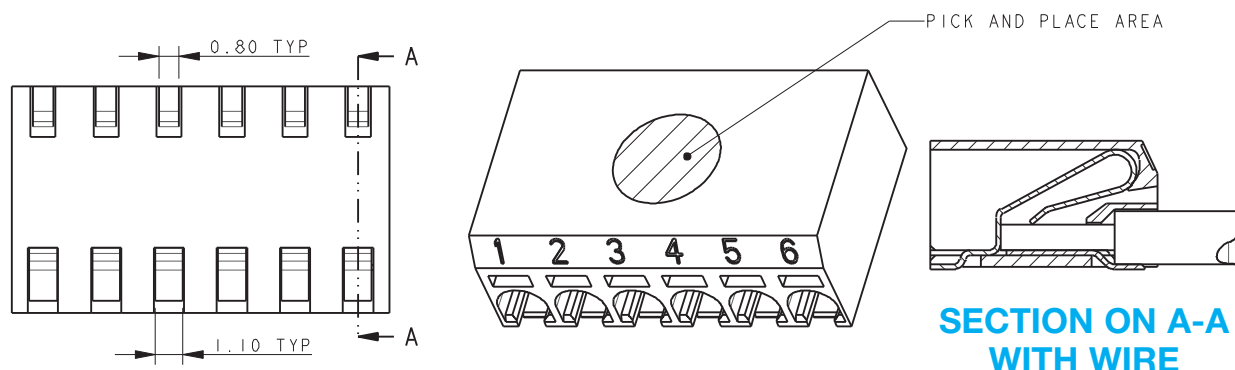
PACKING DETAILS



6 WAY WIRE TO BOARD CONNECTOR



SECTION ON A-A

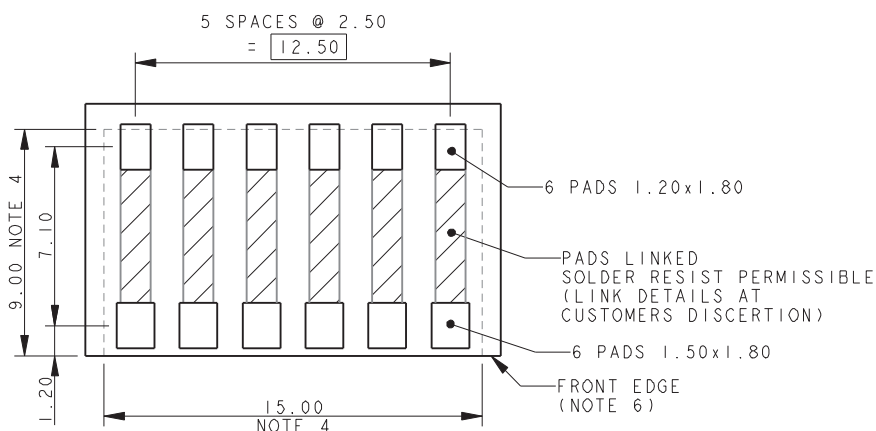


SECTION ON A-A
WITH WIRE

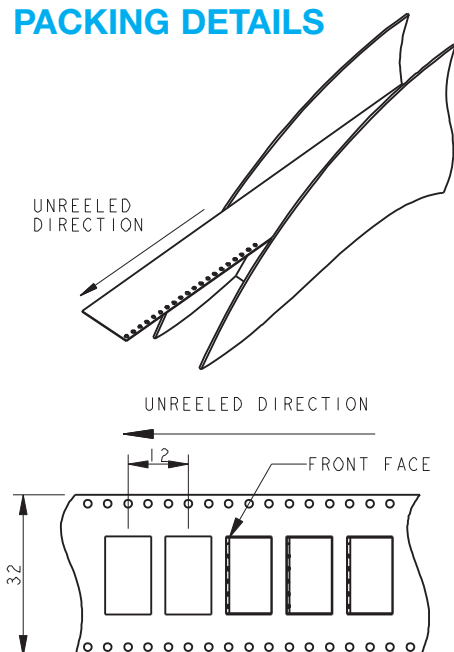
NOTES:

1. 9276 SIX WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 35.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

6 WAY PCB BOARD LAYOUT



PACKING DETAILS

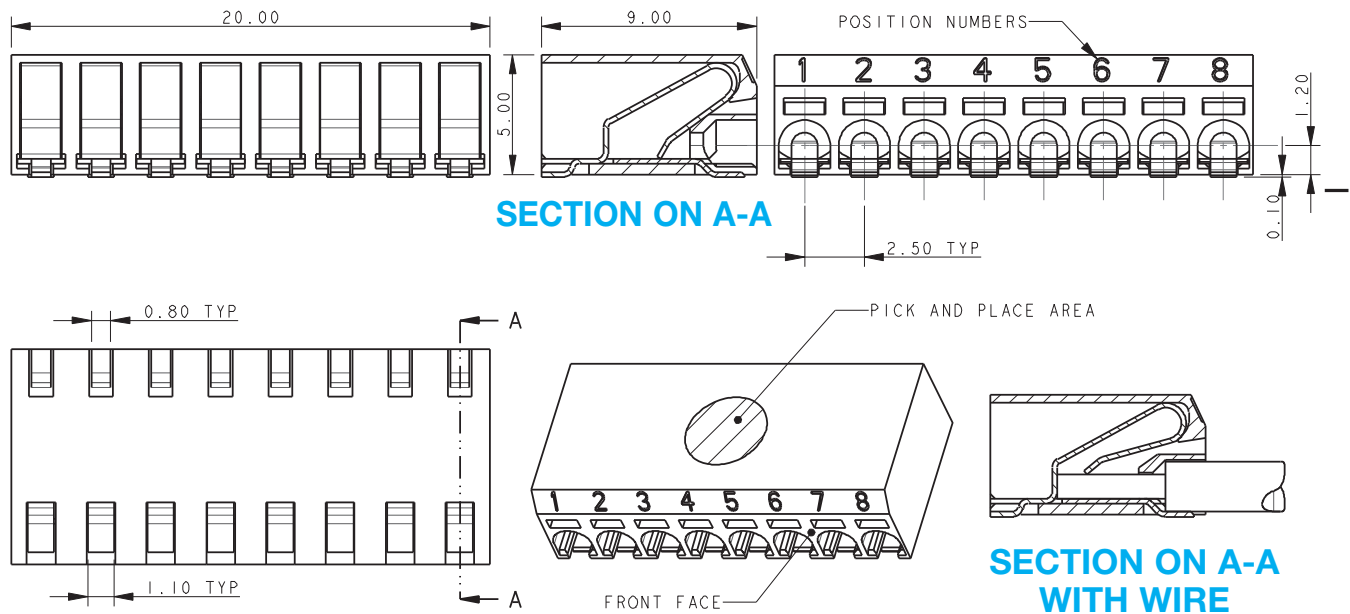


Discrete Wire-to-Board; Poke-Home



Series 9276

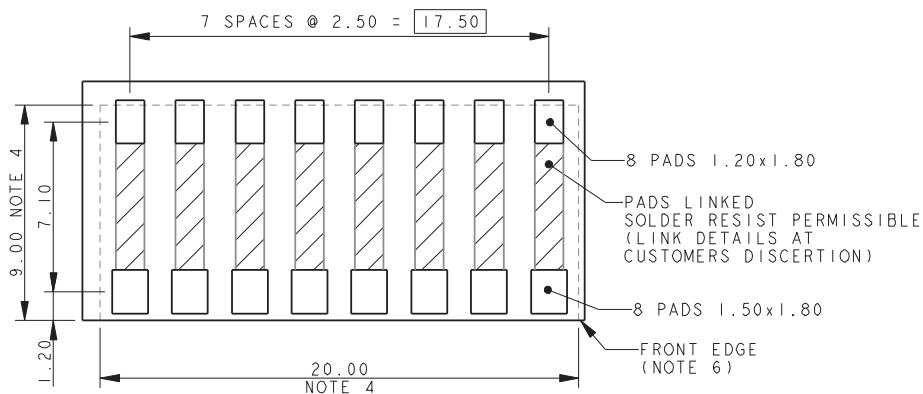
8 WAY WIRE TO BOARD CONNECTOR



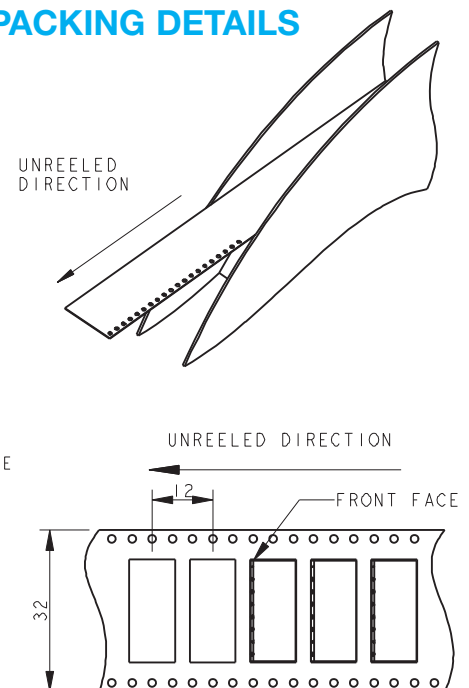
NOTES:

1. 9276 EIGHT WAY CONNECTOR, REFER TO ELCO SPECIFICATION 201-01-125 AND APPLICATION NOTES 201-01-127 FOR FURTHER DETAILS
2. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0, COLOR REFER TO PAGE 34.
3. CONTACT MATERIAL: COPPER ALLOY, 0.20MM THICK, TIN PLATED.
4. OUTLINE OF CONNECTOR.
5. WIRE ASSEMBLY / EXTRACTION, REFER TO PAGE 35.
6. FRONT FACE OF CONNECTOR CAN BE IN LINE WITH EDGE OF PCB.
7. PACKING TAPE AND REEL, QUANTITY 1000 PER REEL.

8 WAY PCB BOARD LAYOUT



PACKING DETAILS



Discrete Wire-to-Board Connectors For Harsh Environments



Series 9176; Insulation Displacement



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
- Optional thru and end caps lock in place to provide maximum strain relief
- High temperature insulator capable to 260°C reflow soldering processes
- Available in standard white and optional black color

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 ranging from 14 AWG to 28 AWG directly to a PCB. This industry proven contact system has been tested to automotive levels of shock, vibration, and temperature cycling to prove its 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 9176 Series accepts 18 AWG to 24 AWG wires with an insulation diameter ranging from 1.1mm to 2.1mm. These dual contact connectors support a 10 amp current rating with two large SMT solder tails per wire to provide maximum stability on the PCB. Available in 1p-3p configuration, these connectors can be end stackable for higher pin counts. The 9176 Series also comes with optional locking strain relief caps that act as the termination tool for severe vibration applications.

ELECTRICAL

- Current Rating: 10 Amp / Contact
- Voltage Rating: 250 VAC

ENVIRONMENTAL

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

Series 9276; Poke-Home

The new 9276 Series connector provides a quick and reliable wire-to-board termination in a sleek 2.5mm pitch SMT package for a broad range of industrial and commercial markets. With almost every product on the market today having to deal with a small number of discrete wires to connect components to a board, the 9276 Series connectors meets this challenge by simply stripping the wire and inserting them into the connector. This makes the connector very termination friendly within the factory as well as in the field by electrical installers. Developed for harsh industrial and Solid State Lighting (SSL) applications, the connector was designed with a high spring force Beryllium Copper upper spring contact to accept a wide range (18-24 AWG solid or stranded) of wire to meet multiple applications with a single connector. By incorporating a dual-contact design we were able to maximize current rating (6 Amps) and minimize PCB space. For example, the 4p connector has a footprint of 90 sq-mm while competing products are 160 sq-mm. The dual-contact design also provides two solder points for each wire eliminating the need for external anchor tabs. AVX provides a small insertion / extraction tool which will allow the wires to easily be replaced up to 5 times.



FEATURES AND BENEFITS

- Simple strip, insert and removal design
- SMT RoHS termination to the PCB with minimal footprint
- Accepts 18-24AWG Solid and Stranded wires
- Expanded size offering to maximize application potential; 1, 2, 3, 4, 6 & 8 positions
- High spring force top contact provides a lance type retention to capture and retain the wire
- Available in standard white and optional black color

ELECTRICAL

- Current Rating: 6 Amps / Contact
- Voltage Rating: 250v AC

ENVIRONMENTAL

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

AMERICAS

AVX Myrtle Beach, SC
Tel: 843-448-9411

AVX Northwest, WA
Tel: 360-699-8746

AVX Midwest, IN
Tel: 317-861-9184

AVX Mid/Pacific, CA
Tel: 408-988-4900

AVX Northeast, MA
Tel: 617-479-0345

AVX Southwest, CA
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AVX Canada
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AVX Czech Republic
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AVX Benelux
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**AVX/Kyocera HK Ltd.,
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**AVX/Kyocera (M) Sdn Bhd,
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