AVX Board to Board Connector Solutions



Version 14.8



Table of Contents



2 PIECE	
HORIZONTAL PLUG: 10-91592-	8
2 Position	
3 Position	4
4 Position	
5 Position	-
6 Position	7
Insertion Tool	.8
SOLDER CUP PLUG: 11-91599-1	7
2 Position	
3 Position	
4 Position	
6 Position	
Cover Accessory	
Latch Accessory	
Accessory Ordering Codes / 3 Assembled Options	17
VERTICAL PLUG: 13-915918-2	3
2 Position	
3 Position	
5 Position	
6 Position	
IDO BLUO: 44 0450	
IDC PLUG: 14-9159 24-3 2 Position Through Wire Cap.	0
3 Position Through Wire Cap	
4 Position Through Wire Cap	27
5 Position Through Wire Cap	
6 Position Through Wire Cap	
2 Position Wire Stop Cap	30
4 Position Wire Stop Cap	
5 Position Wire Stop Cap	33
6 Position Wire Stop Cap	34
Assembly Support Block, Insertion Tool	
Assembly	
HORIZONTAL SOCKET: 20-915937-4	
2 Position	
3 Position	
5 Position.	
6 Position	
TOP LOAD SOCKET: 22-915943-4	9
2 Position	
3 Position	
4 Position	
6 Position	
Assembly	
IDC SOCKET: 24-915950-6	2
2 Position Through Wire Cap	51
3 Position Through Wire Cap	
4 Position Through Wire Cap	
6 Position Through Wire Cap	
2 Position Wire Stop Cap	
3 Position Wire Stop Cap	
4 Position Wire Stop Cap	
	50
5 Position Wire Stop Cap	
5 Position Wire Stop Cap	60 61
5 Position Wire Stop Cap	60 61 62
5 Position Wire Stop Cap	60 61 62 4
5 Position Wire Stop Cap	60 61 62 64
5 Position Wire Stop Cap	60 61 62 64 69 66
5 Position Wire Stop Cap	60 61 62 64 69 66 67 68

ONE PIECE CARD EDGE	
STANDARD: 00-9159	
3 Position	
4 Position	73
5 Position	
OPEN ENDED: 00-9159	
4 Position	
6 Position	
10 Position	
INVERTED THRU BOARD: 9159-500	20_20
2 Position	
3 Position	
4 Position	
5 Position	
Thru Board Mating Edge Card Connector – With Cap	
Thru Board Mating Edge Card Connector - Mating PCB	87
Assembly	88
VERTICAL TOP ENTRY: 9159-500	
2 Position	
4 Position	
5 Position	
6 Position	
Top Mounting Edge Card Connector - Mating PCB	
Assembly	97
ONE PIECE COMPRESSION	
LOW PROFILE 9	8-103
2 Position - No Stop	99
3 Position - No Stop	99 100
3 Position - No Stop	99 100 101
3 Position - No Stop	99 100 101
3 Position - No Stop	99 100 101 102
3 Position - No Stop	99100101102103
3 Position - No Stop	99 100 101 103 04-106 105
3 Position - No Stop	99 100 101 102 103 04-106 105 106
3 Position - No Stop	99 100 101 103 04-106 105 106
3 Position - No Stop	99100101102103 04-106105106 07-113108
3 Position - No Stop	99100101102103 04-106105106 07-113108109
3 Position - No Stop	99100101102105106106108109111111
3 Position - No Stop	99100101102105106106108109110111
3 Position - No Stop	99100101102103105106106108109111112113114
3 Position - No Stop	99100101102103105106106108109111112113114
3 Position - No Stop	99100101102105106106109111112113114 5-119116
3 Position - No Stop	99100101102105106108109111112113114 5-119116116
3 Position - No Stop	99100101102105106108109110111112113114 5-119116117118
3 Position - No Stop	

PCB Details129



Horizontal Plug: BTB

10-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. These single sided SMT connectors are perfect for both FR4 and metal boards where you need to butt the boards up together to minimize separation. Availability of both white and black insulation colors make them perfect for lighting as well as industrial applications. With sizes from 2p-6p, these high reliability connectors boast gold plated beryllium copper receptacle contacts for harsh environments.

APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- Single sided SMT: supports FR4 and metal PCB's
- 5 Amp current rating: exceeds general market needs
- 5.5mm mated width: minimizes PCB space to decrease LED pitch
- Gold plated BeCu spring contacts: reliability for harsh environments
- Optional retaining clip: provides positive connector mating during vibration
- Available in white: supports SSL market preferences

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

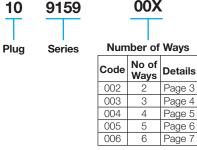
Insulator Material: Nylon: VL94VO

• Contact Material: BeCu / Phos Bronze

• Plating: Gold / Tin over Nickel

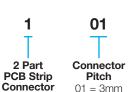
• Durability: 10 Cycles

HOW TO ORDER



Optional Retaining Clip Page 8

00X





9



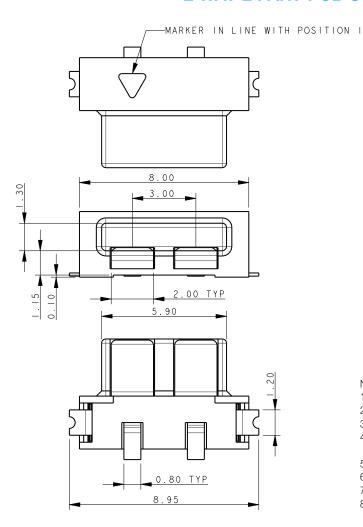


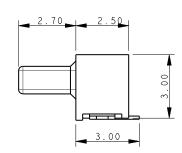
Certification: UL File #E90723

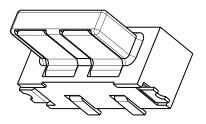




PLUG 2 WAY 2 PART PCB STRIP CONNECTOR

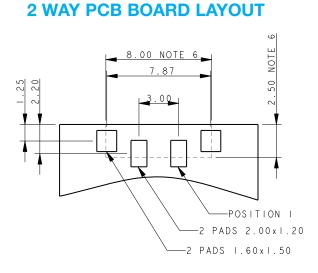


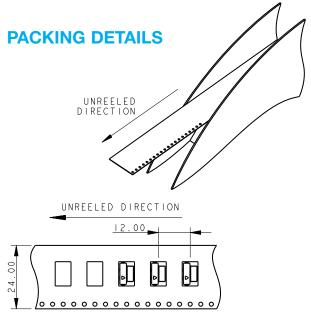




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.

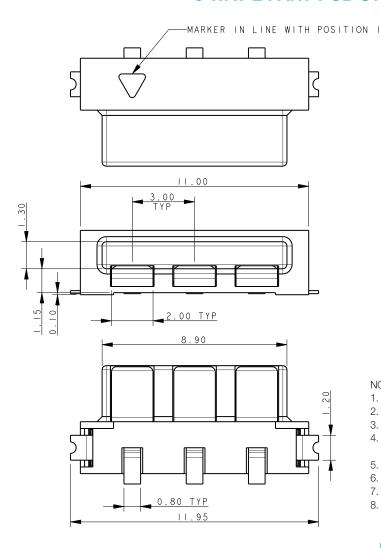


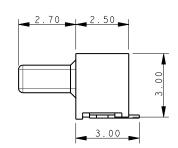


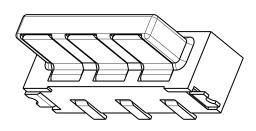




PLUG 3 WAY 2 PART PCB STRIP CONNECTOR





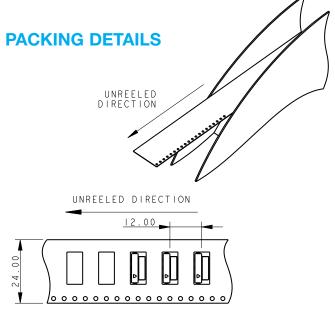


NOTES

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL. QUANTITY 1400 PER REEL.

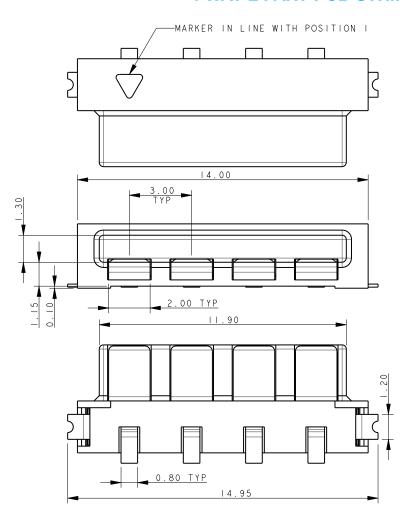


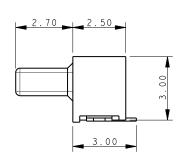
11.00 NOTE 6 10.87 2 SPACES 93.00 = 6.00 POSITION 3 PADS 2.00x1.20 2 PADS 1.60x1.50

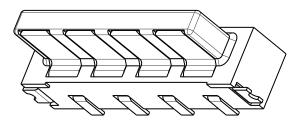




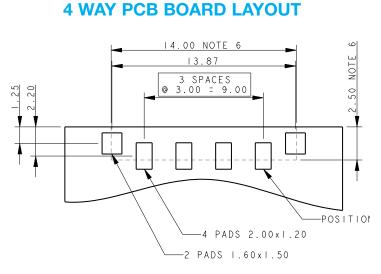
PLUG 4 WAY 2 PART PCB STRIP CONNECTOR

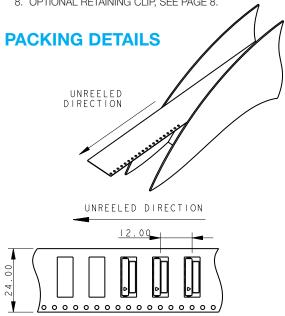






- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.

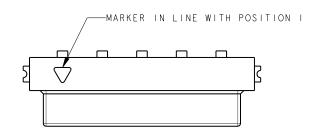


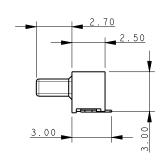


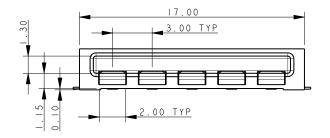


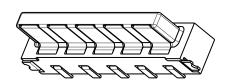


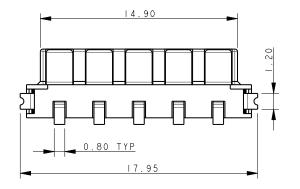
PLUG 5 WAY 2 PART PCB STRIP CONNECTOR





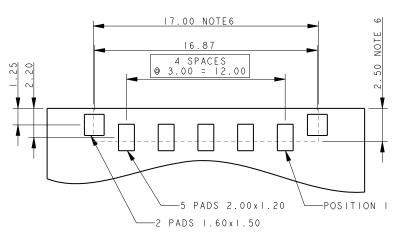


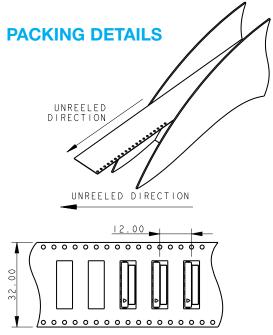




NOTES

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.

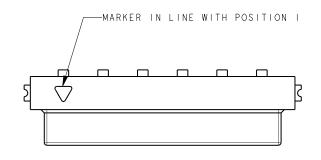


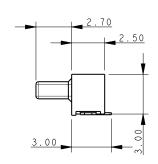


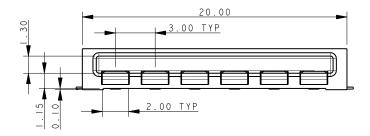


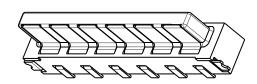


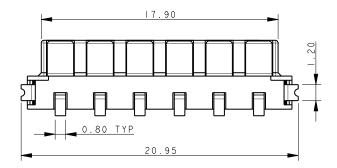
PLUG 6 WAY 2 PART PCB STRIP CONNECTOR





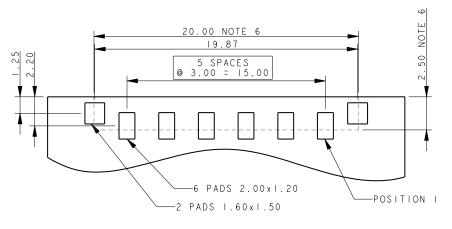


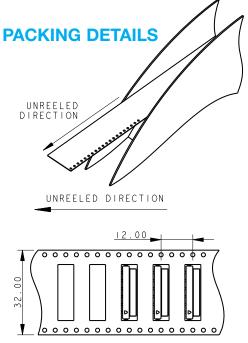




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.





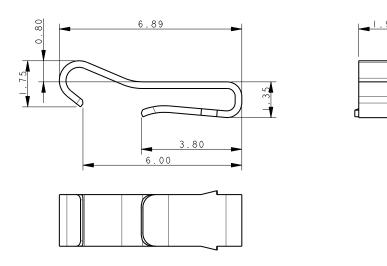


Horizontal Plug: BTB

10-9159

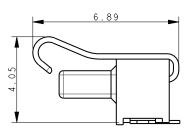


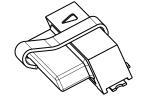
80-9159-4200-00-000 ACCESSORY RETAINING CLIP



PLUG ASSEMBLY FOR REFERENCE ONLY

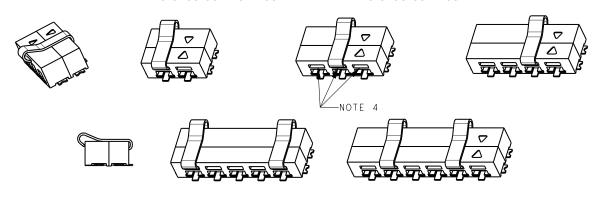
CLIP INSERTED INTO 10-9159-00X-101-X06





MATED ASSEMBLY - FOR REFERENCE ONLY

10-9159-00X-101-X06 MATED WITH 20-9159-00X-X06



	# of Positions	Part Number	UL File #
Horizontal Plug w/pre-installed locking clip		58 9159 002 000 015	E90723
Horizontal Plug w/pre-installed locking clip		58 9159 003 000 015	E90723
Horizontal Plug w/pre-installed locking clip		58 9159 004 000 015	E90723
Horizontal Plug w/pre-installed locking clips	5	58 9159 005 000 015	E90723
Horizontal Plug w/pre-installed locking clips	6	58 9159 006 000 015	E90723

NOTES

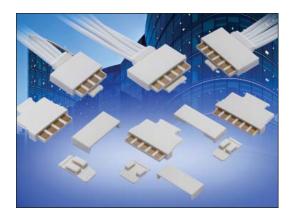
- 1. CLIP TO RETAIN MATED PAIR PLUG AND SOCKET.
- 2. MATERIAL: STAINLESS STEEL.
- 4. TAIL INSERTED INTO SLOT OF 9159 2 PART PLUG (10-9159-00X-101-006). LEADING EDGE CLIPS OVER SOCKET.
- 5. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 6. RECOMMENDED 1 CLIP IN 2, 3 AND 4 WAY. 2 CLIPS IN 5 AND 6 WAY. POSITIONS AT CUSTOMER DISCRETION.



Solder Cup Plug: WTB

11-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. The cabled plug was developed to bring power and signals onto the PCB's while keeping the same board level interface. This allows the designer to build a single PCB with a receptacle on one end and a plug on the other end to minimize cost and inventory. Regardless of where the PCB is used in the system, the cabled plug connector will then create the connection to the outside world. The optional latch can be inserted into the plug housing to assure positive attachment to the PCB in harsh environments without having to change the PCB connector.

APPLICATIONS

- Provided Wire-to-Board capabilities to standard 9159 2-Piece connector system
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- Mates with standard horizontal socket: no need to change any connectors
- 5 Amp current rating: exceeds general market needs
- Wires are soldered into connector with tie wrap strain relief: simplicity
- Optional latch: provides positive attachment to PCB connector
- Available in white: supports SSL market preferences

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

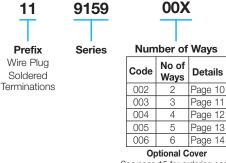
ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon: VL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

HOW TO ORDER



See page 15 for ordering code **Optional Latch** See page 16 for ordering code

01 9 1 2 Part Connector Color/Approval **PCB Strip** Pitch Code Color Connector 01 = 3mm

Approval White UL Approved

Plating Option Code Contact 16 Gold in Contact Area Tin on Solder Tail

16

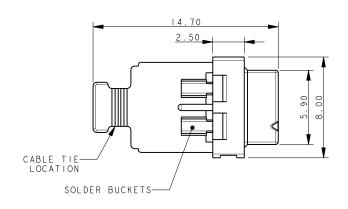


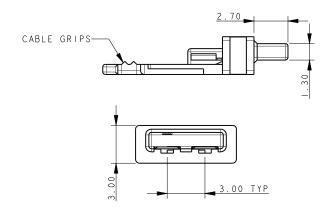
NOTES: Connectors are supplied with cable ties (see page 17). Covers/Latches are sold separately (see pages 15-16 for ordering codes).

Certification: UL File #E90723



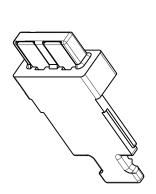
PLUG WIRED 2 WAY 2 PART 9159 LIGHTING CONNECTOR

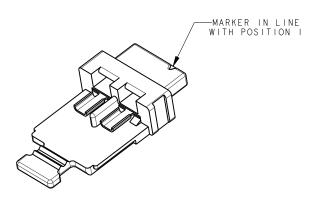


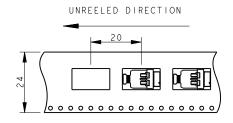


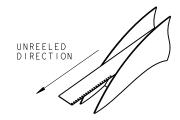
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- CABLE TIE SUPPLIED FOR WIRE RETENTION, ATTACHED TO EACH REEL. SPARES CAN BE ORDERED, REFER TO PAGE 17.
- 3. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 4. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 9.
- 5. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 6. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 7. FOR ACCESSORY COVERS AND LATCHES REFER TO PAGES 15 AND 16.





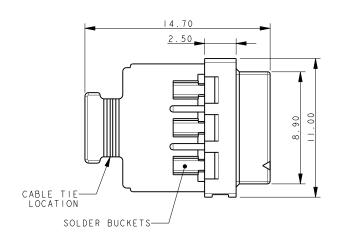


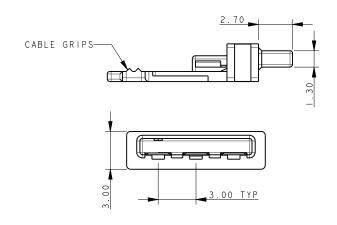






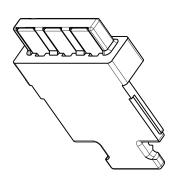
PLUG WIRED 3 WAY 2 PART 9159 LIGHTING CONNECTOR

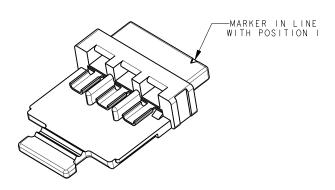


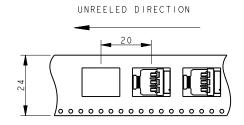


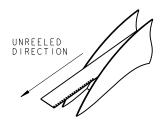
NOTES

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. CABLE TIE SUPPLIED FOR WIRE RETENTION, ATTACHED TO EACH REEL. SPARES CAN BE ORDERED, REFER TO PAGE 17.
- 3. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 4. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 9.
- 5. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 6. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 7. FOR ACCESSORY COVERS AND LATCHES REFER TO PAGES 15 AND 16.





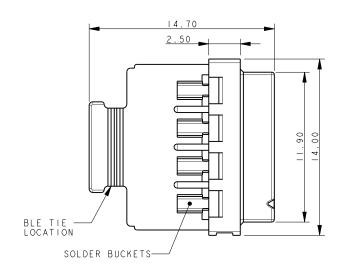


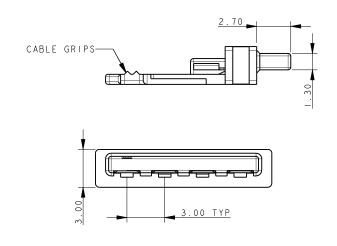






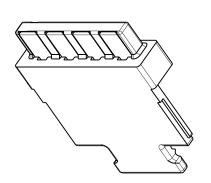
PLUG WIRED 4 WAY 2 PART 9159 LIGHTING CONNECTOR

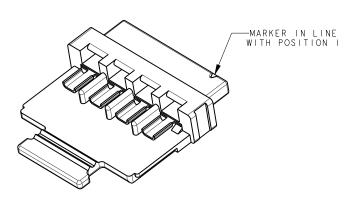


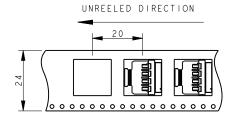


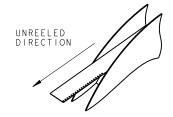
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- CABLE TIE SUPPLIED FOR WIRE RETENTION, ATTACHED TO EACH REEL. SPARES CAN BE ORDERED, REFER TO PAGE 17.
- 3. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 4. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 9.
- 5. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 6. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 7. FOR ACCESSORY COVERS AND LATCHES REFER TO PAGES 15 AND 16.





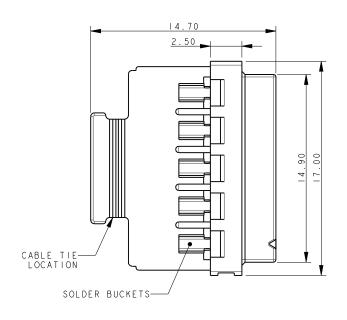


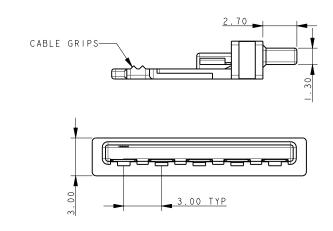






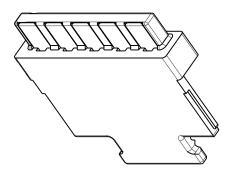
PLUG WIRED 5 WAY 2 PART 9159 LIGHTING CONNECTOR

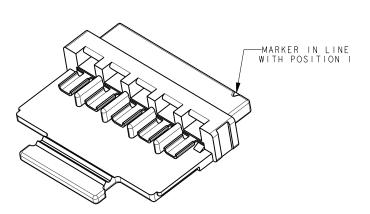


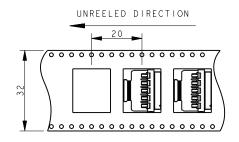


NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- CABLE TIE SUPPLIED FOR WIRE RETENTION, ATTACHED TO EACH REEL. SPARES CAN BE ORDERED, REFER TO PAGE 17.
- 3. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 4. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 9.
- 5. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 6. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 7. FOR ACCESSORY COVERS AND LATCHES REFER TO PAGES 15 AND 16.





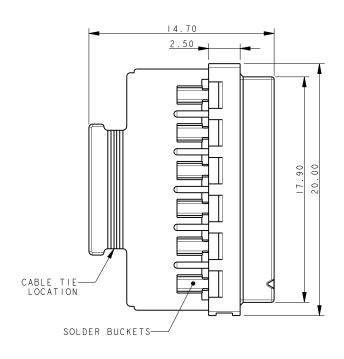


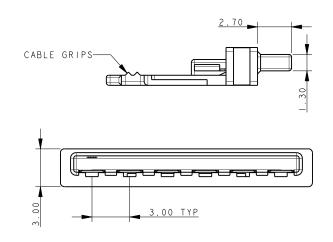






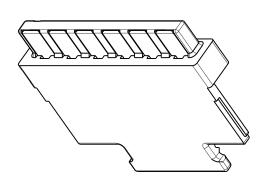
PLUG WIRED 6 WAY 2 PART 9159 LIGHTING CONNECTOR

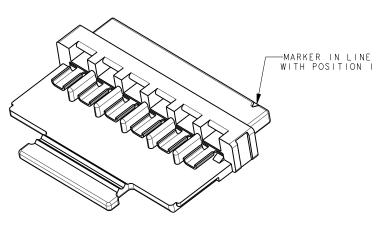


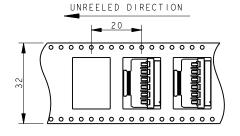


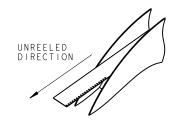
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. CABLE TIE SUPPLIED FOR WIRE RETENTION, ATTACHED TO EACH REEL. SPARES CAN BE ORDERED, REFER TO PAGE 17.
- 3. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 4. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 9.
- 5. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 6. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 7. FOR ACCESSORY COVERS AND LATCHES REFER TO PAGES 15 AND 16.











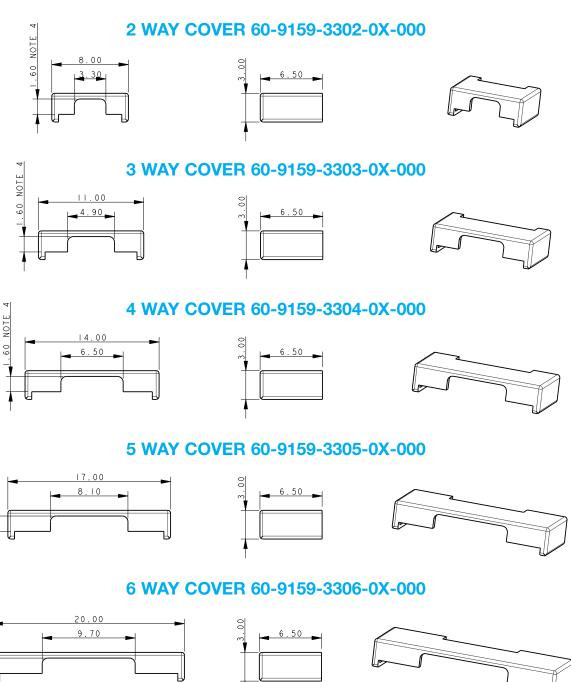
NOTE

09

60 NOTE



PLUG WIRED COVERS ACCESSORY NOT SUPPLIED WITH CONNECTOR ASSEMBLY



NOTES

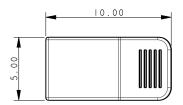
- 1. COVER (SLIDE ON) AVAILABLE TO PROTECT CABLE ENTRY.
- 2. OPTION COMPONENT. ORDER SEPARATELY.
- 3. PACKED IN BAGS, 1400 PIECES PER BAG.
- 4. MAXIMUM OUTER WIRE SIZE, 1.6MM DIAMETER INSULATION.
- 5. MATERIAL: GLASS FILLED NYLON 46. COLOR REFER TO PAGE 9.
- ${\it 6. \,\, COLOR \,\, OPTIONS \,\, SEE \,\, PAGE \,\, 9.}$
- 7. ALL DIMENSIONS ARE REFERENCED DIMENSIONS.
- 8. TO BE ASSEMBLED BEFORE CABLE TIE.





PLUG WIRED LATCHES ACCESSORY NOT SUPPLIED WITH CONNECTOR ASSEMBLY

LATCH 60-9159-3402-0X-000 USED ON 2, 4 AND 6 WAY ASSEMBLIES

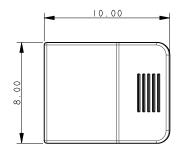






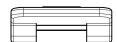


LATCH 60-9159-3403-0X-000 USED ON 3 AND 5 WAY ASSEMBLIES









NOTES:

- 1. LATCH AVAILABLE TO RETAIN MATED PLUG.
- 2. OPTIONAL COMPONENT, ORDER SEPARATELY. SEE PAGE 17.
- 3. PACKAGED IN BAGS, 1400 PIECES PER BAG.
- 4. MATERIAL: GLASS FILLED NYLON 46. COLOR REFER TO PAGE 9.
- 5. ALL DIMENSIONS ARE REFERENCED DIMENSIONS.
- 6. TO BE ASSEMBLED BEFORE COVER.



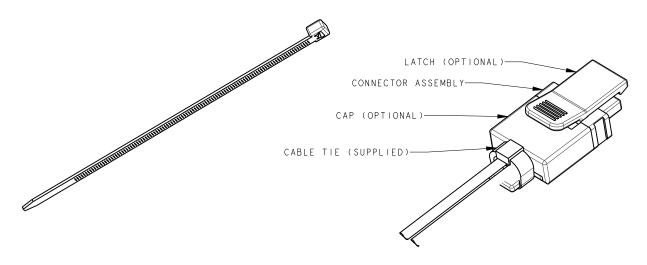


PLUG WIRED ACCESSORY ORDERING CODES

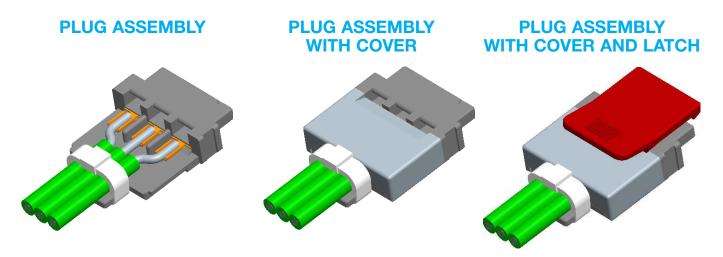
Connector Assembly	Optional Components	
Part Number	Cover (see page 15)	Latch (see page 16)
11-9159-002-101-916	60-9159-3302-09-000	60-9159-3402-09-000
11-9159-003-101-916	60-9159-3303-09-000	60-9159-3403-09-000
11-9159-004-101-916	60-9159-3304-09-000	60-9159-3402-09-000
11-9159-005-101-916	60-9159-3305-09-000	60-9159-3403-09-000
11-9159-006-101-916	60-9159-3306-09-000	60-9159-3402-09-000

CABLE TIE

Supplied in bags with each reel of connector assemblys. Color White. For additional ties order code 90-2211-7092-00-000. Packed in bags, 700 pieces per bag.



PLUG WIRED 3 ASSEMBLY OPTIONS



Vertical Plug: BTB

13-9159





AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 5 Amps/contact and then function up to 125C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications where products are exposed to harsh mechanical and environmental environments.

This vertical plug connector opens up the spectrum to include all commercial, industrial and transportation applications requiring perpendicular PCB mating and latching Wire-to-Board cabled sockets with an already proven connector system. With sizes from 2p-6p, these gold plated contacts mate with high spring force beryllium copper receptacle connectors.

APPLICATIONS

- Allows assembly of PCB's at right angles
- Accepts 24-9159 IDC wired/cabled socket
- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

00X

FEATURES AND BENEFITS

- Single sided SMT RoHS solder attachment
- Centrally located pick & place cap for easy placement
- Gold plated BeCu contact system for high reliability in harsh environments
- Available in white: supports SSL market preferences

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

• Insulator Material: Nylon: UL94VO

• Contact Material: BeCu / Phos Bronze

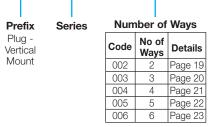
• Plating: Gold / Tin over Nickel

• Durability: 10 Cycles

HOW TO ORDER

9159

13



2 Part Connector
PCB Strip Pitch
Connector 01 = 3mm

01





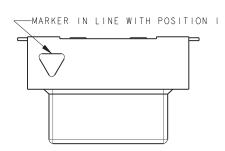
Certification: UL File #E90723





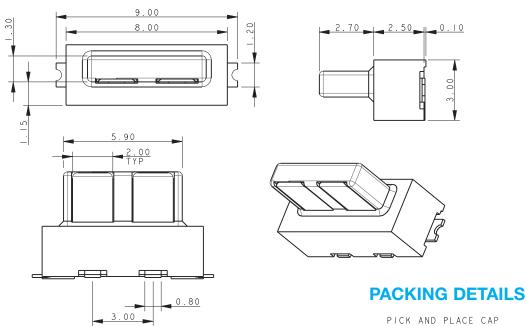


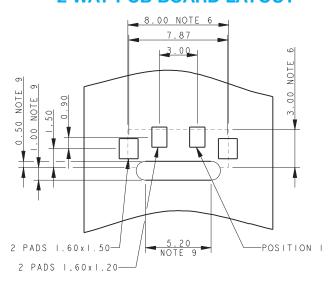
PLUG – VERTICAL MOUNT 2 WAY 2 PART PCB STRIP CONNECTOR

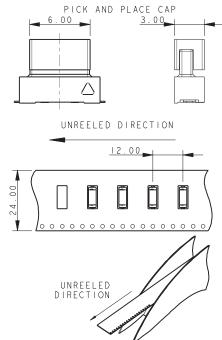


NOTES:

- 1. FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.



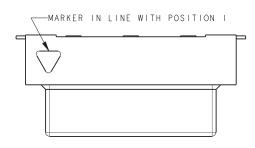






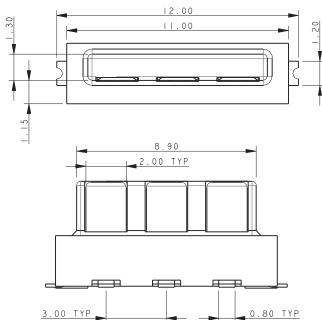


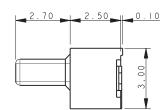
PLUG – VERTICAL MOUNT 3 WAY 2 PART PCB STRIP CONNECTOR

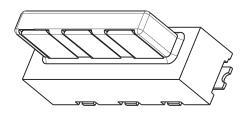


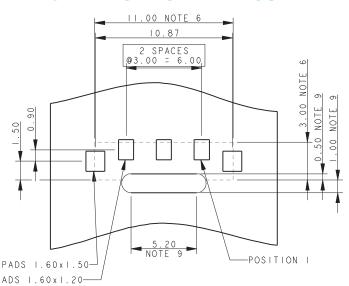
NOTES:

- 1. FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.



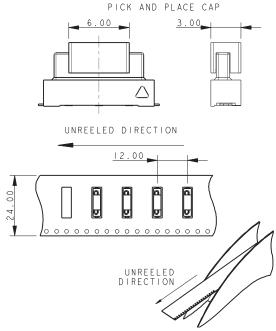






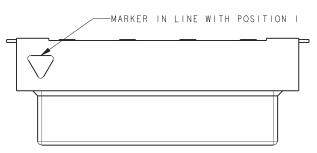
3 WAY PCB BOARD LAYOUT

PACKING DETAILS



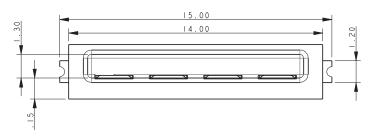


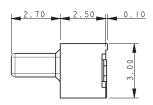
PLUG – VERTICAL MOUNT 4 WAY 2 PART PCB STRIP CONNECTOR

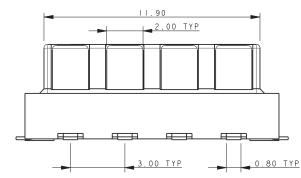


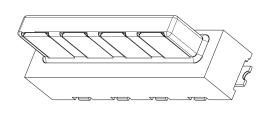
NOTES:

- FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.

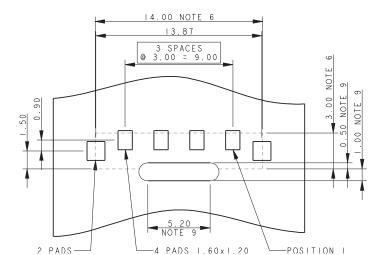


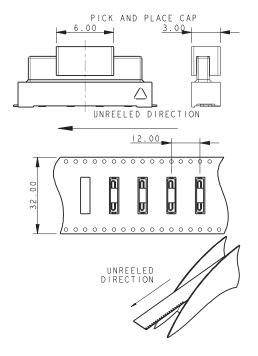






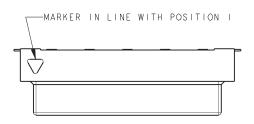
PACKING DETAILS





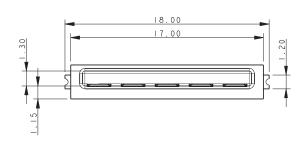


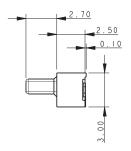
PLUG – VERTICAL MOUNT 5 WAY 2 PART PCB STRIP CONNECTOR

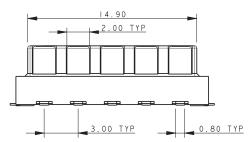


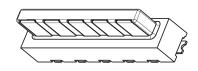
NOTES:

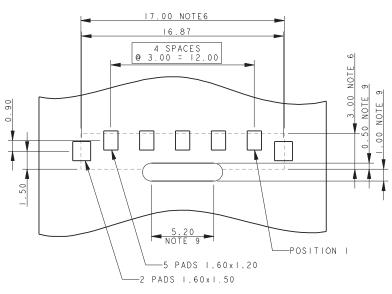
- 1. FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.

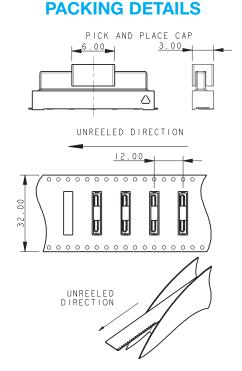








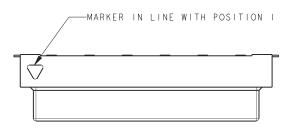






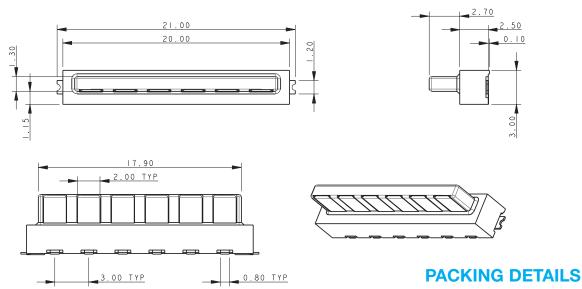


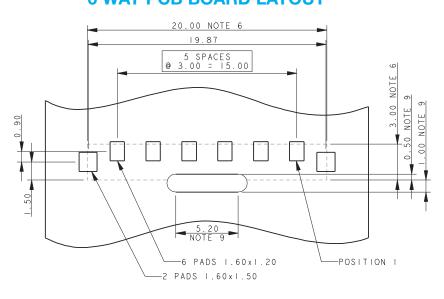
PLUG – VERTICAL MOUNT 6 WAY 2 PART PCB STRIP CONNECTOR

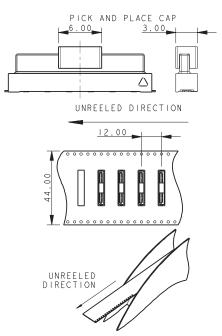


NOTES:

- FOR FULL PRODUCT SPECIFICATION STANDARD CONNECTORS REFER TO ELCO SPEC 201-01-119, UL COMPONENTS REFER TO ELCO SPEC 201-01-119UL. FOR APPLICATION NOTES REFER TO 201-01-123.
- 2. GENERAL TOLERANCE ±0.20 UNLESS TOLERANCED.
- 3. INSULATOR MATERIAL: NYLON 46, UL94 V-0, COLOR REFER TO PAGE 18.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL, TIN PLATE ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 8. PICK AND PLACE CAP TO BE REMOVED AFTER USE.
- 9. OPTIONAL SLOT: ONLY REQUIRED WHEN SOCKET HAS A LATCH, RADIUS ON ENDS OPTIONAL.









IDC Plug: WTB

14-9159





AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 5 Amps/contact and then function up to 125C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications where products are exposed to harsh mechanical and environmental environments.

The IDC cable plug connector allows for 22-24AWG discrete or cabled wires to be easily and reliability terminated into a 9159 standard interface socket connector. This will allow power and signals to be connectors onto a PCB socket connector while providing positive latching. The wire assembly support block allows for 2 through 6 wires to be terminated all in one step with any standard bench top press. IDC covers provide both through (daisy chain applications) and wire stop termination options.

APPLICATIONS

- Provides Wire-to-Board capabilities to standard 9159 2-Piece connector system
- In conjunction with the IDC socket WTB connector (24-9159), these connectors provide maximum flexibility to bring power and signal wires onto or off of any board level 9159 connector
- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

FEATURES AND BENEFITS

- Mates with standard 9159 horizontal socket. keeping same BTB connector system
- Economical and reliable IDC wire termination
- Gold plated BeCu contact system for high reliability in harsh environments
- Integrally molded latch offers positive latching after mating

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

• Insulator Material: Nylon: UL94VO

• Contact Material: Phosphor Bronze

6

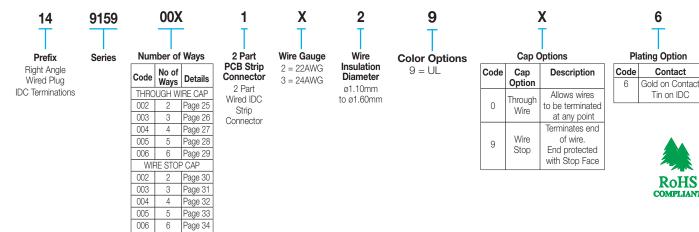
Contact

Tin on IDC

• Plating: Gold / Tin over Nickel

• Durability: 10 Cycles

HOW TO ORDER

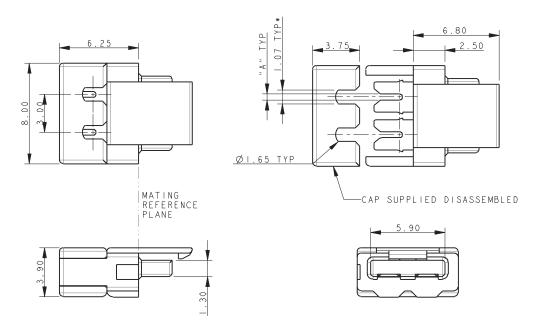


Certification: UL File #E90723



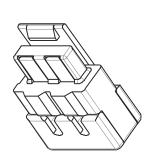


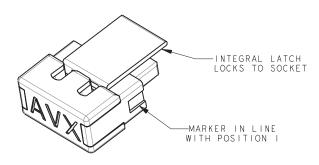
PLUG-WIRED - 2 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL, QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 35.





Code

(Page 24)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

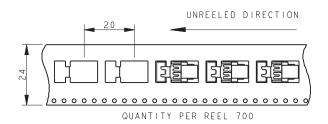
(Standed Wire)

Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60









Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60

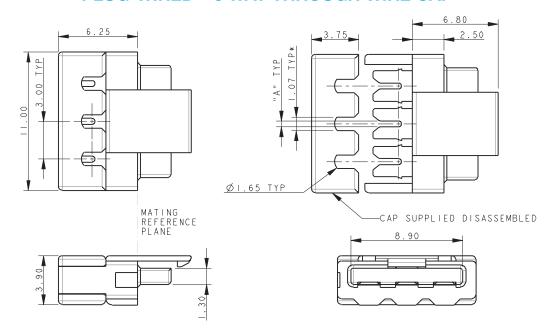
Dimension A

0.47

(Page 24)

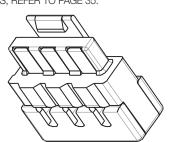
122

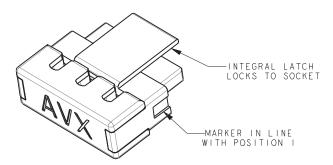
PLUG-WIRED - 3 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL, QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 35.





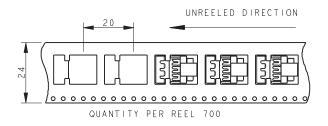
Wire Gauge

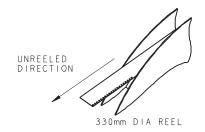
22AWG

(Stranded Wire)

24AWG

(Standed Wire)

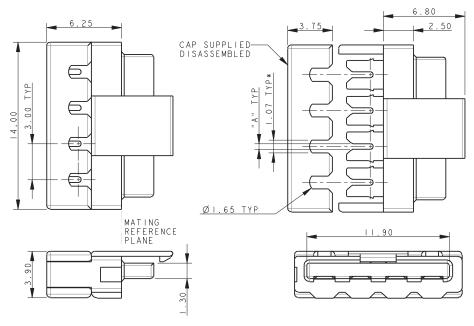






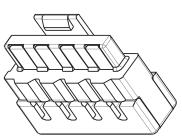


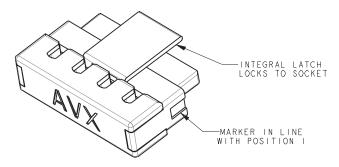
PLUG-WIRED - 4 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 35.





Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

Code

(Page 24)

122

Dimension A

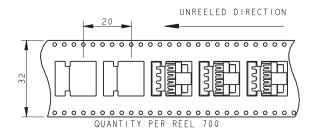
0.47

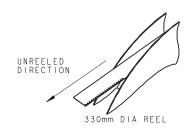
Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60









Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60

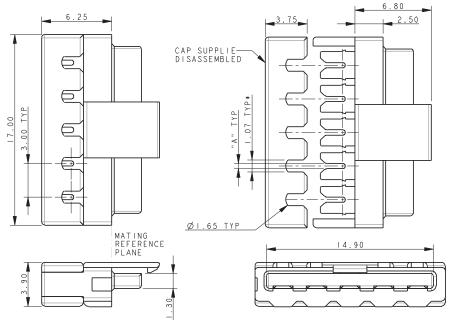
Dimension A

0.47

(Page 24)

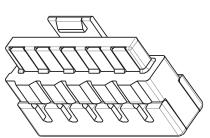
122

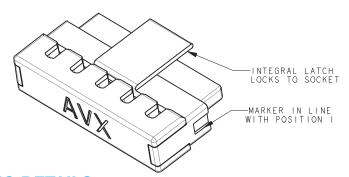
PLUG-WIRED - 5 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 35.





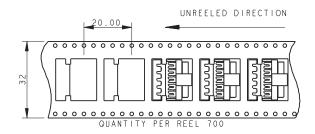
Wire Gauge

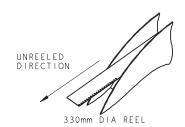
22AWG

(Stranded Wire)

24AWG

(Standed Wire)

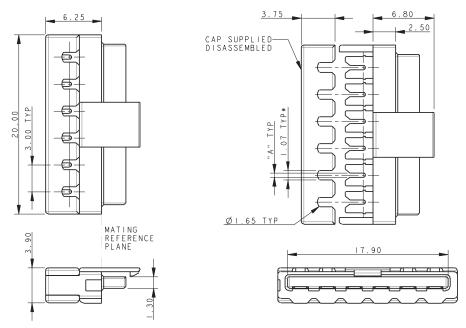






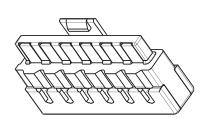


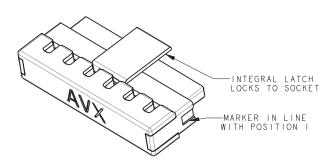
PLUG-WIRED - 6 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 35.





Code

(Page 24)

122

Dimension A

0.47

Wire Gauge

22AWG

(Stranded Wire)

24AWG

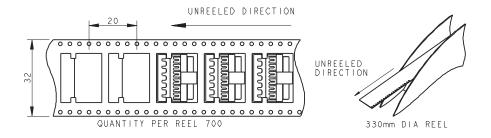
(Standed Wire)

Wire Insulation

Diameter

1.10 to 1.60

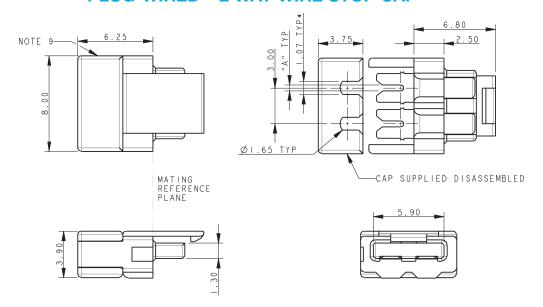
1.10 to 1.60







PLUG-WIRED - 2 WAY WIRE STOP CAP

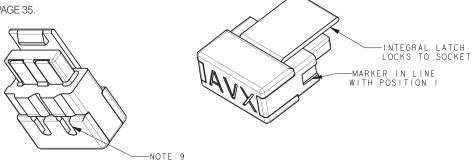


NOTES:

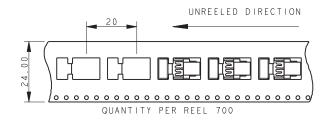
- FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
 FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.

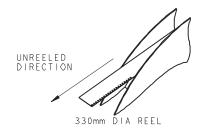
SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.

10. ASSEMBLY AIDS, REFER TO PAGE 35.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 24)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

Wire Insulation

Diameter

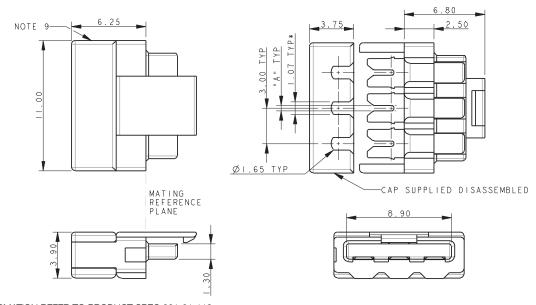
1.10 to 1.60

1.10 to 1.60





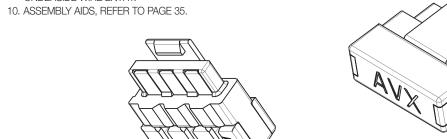
PLUG-WIRED - 3 WAY WIRE STOP CAP



NOTES:

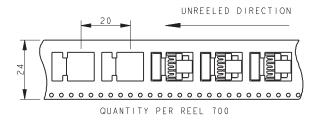
- FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
 FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. NSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.

9. SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)

NOTE 9





Code

(Page 24)

122

132

Dimension A

0.47

0.37

-INTEGRAL LATCH LOCKS TO SOCKET

-MARKER IN LINE WITH POSITION I

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60





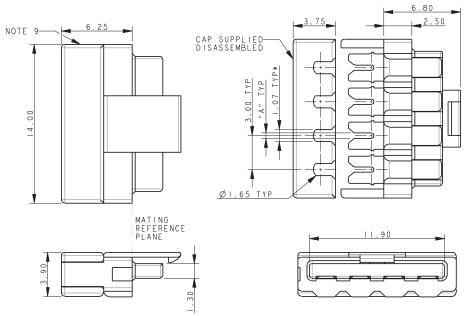
Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60

PLUG-WIRED - 4 WAY WIRE STOP CAP

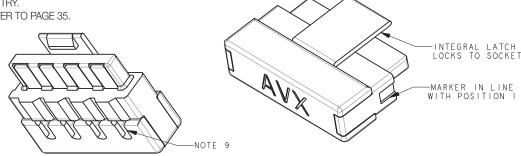


NOTES:

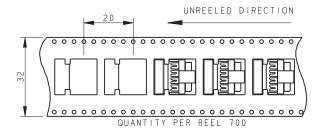
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.

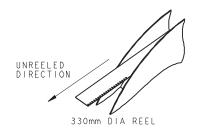
9. SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.

10. ASSEMBLY AIDS, REFER TO PAGE 35.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

122

(Page 24)

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

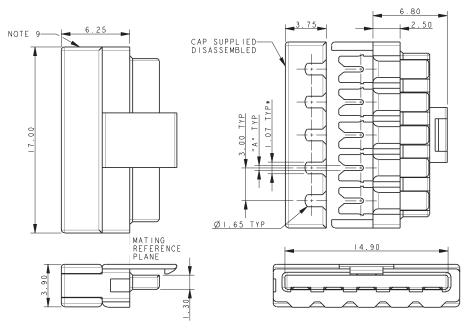
24AWG

(Standed Wire)





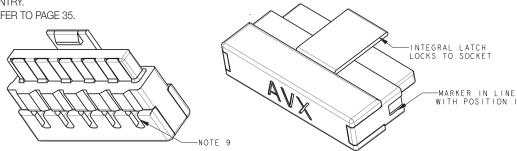
PLUG-WIRED - 5 WAY WIRE STOP CAP



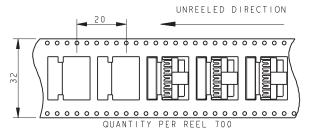
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.

10.	ASSEME	BLY AIDS	, REFER	TO PAG	BE 35.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

122

(Page 24)

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)



Wire Insulation

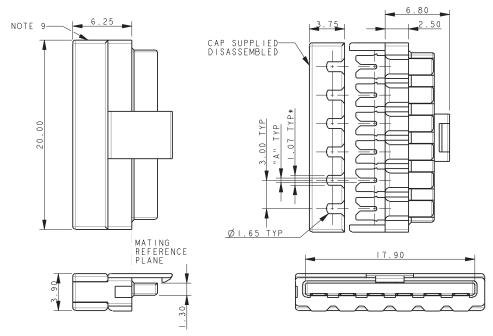
Diameter

1.10 to 1.60

1.10 to 1.60

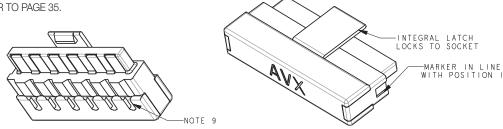


PLUG-WIRED - 6 WAY WIRE STOP CAP

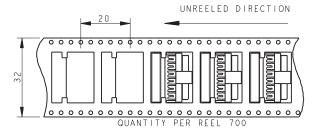


NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 24.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.
- 10. ASSEMBLY AIDS, REFER TO PAGE 35.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 24)

122

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

Dimension A

0.47

0.37

Wire Insulation

Diameter

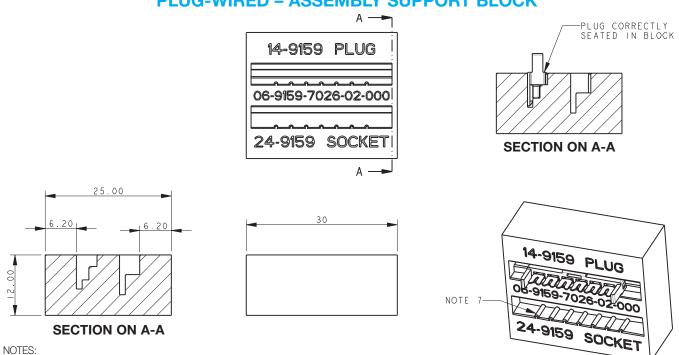
1.10 to 1.60

1.10 to 1.60



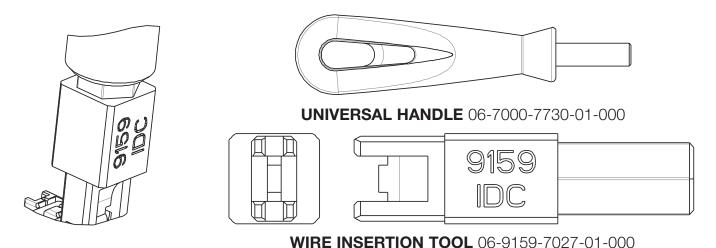


PLUG-WIRED - ASSEMBLY SUPPORT BLOCK



- 1. BLOCK TO SUPPORT 9159 IDC WIRED CONNECTORS DURING ASSEMBLY OF CAP/WIRE.
- 2. PART NUMBER 06-9159-7026-01-000, MATERIAL ALUMINUM. PART NUMBER 06-9159-7026-02-000, MATERIAL NYLON 46.
- 3. CAN BE USED WITH EITHER THE PLUG OR SOCKET CONNECTORS, USE THE CORRECT SLOT AS IDENTIFIED.
- 4. FOR FULL WIRE ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-123.
- 5. ONLY A SIMPLE FLAT BOTTOMED TOOL REQUIRED TO PUSH THE CAP DOWN (NOT SUPPLIED.)
- 6. ALL DIMENSIONS ±0.20 UNLESS TOLERANCED.
- 7. 06-9159-7026-02-000 HAS RIBS TO HELP LOCATE CONTACT/INSULATOR SUB-ASSEMBLY.

PLUG-WIRED - WIRE INSERTION TOOL

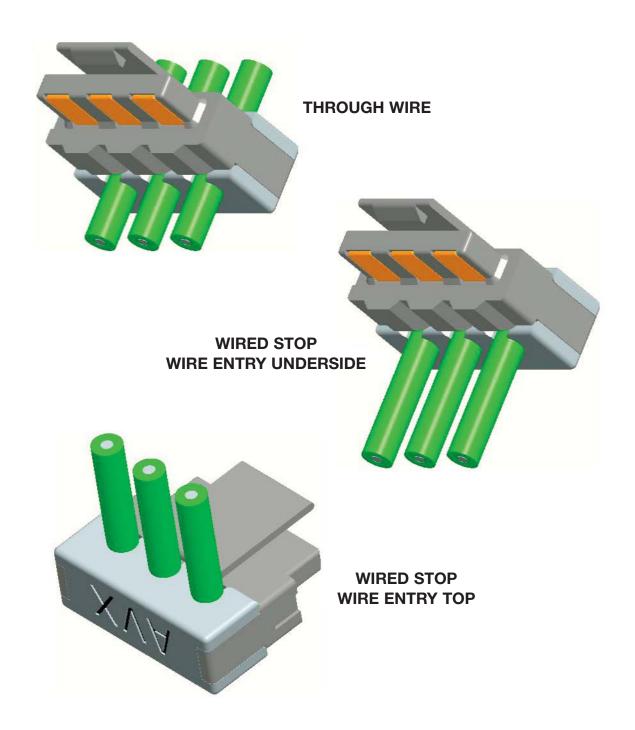


- 1. TOOL 06-9159-7027-01-000 TO INSERT WIRES INTO CAP.
- 2. FOR USE WITH UNIVERSAL HANDLE 06-7000-7720-01-000.
- 3. CAN BE USED WITH BOTH THROUGH WIRE AND WIRE STOP CAPS.
- 4. REFER TO APPLICATION NOTES 201-01-123 FOR FURTHER DETAILS.





PLUG-WIRED - ASSEMBLY



Horizontal Socket: BTB

20-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. These single sided SMT connectors are perfect for both FR4 and metal boards where you need to butt the boards up together to minimize separation. Availably of both white and black insulation colors make them perfect for lighting as well as industrial applications. With sizes from 2p-6p, these high reliability connectors boast gold plated beryllium copper receptacle contacts for harsh environments.

APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- Single sided SMT: supports FR4 and metal PCB's
- 5 Amp current rating: exceeds general market needs
- 5.5mm mated width: minimizes PCB space to decrease LED pitch
- Gold plated BeCu spring contacts: reliability for harsh environments
- Optional retaining clip: provides positive connector mating during vibration
- Available in white: supports SSL market preferences

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

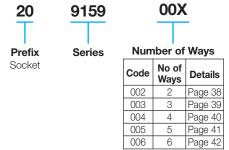
• Insulator Material: Nylon: VL94VO

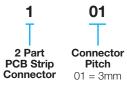
• Contact Material: BeCu / Phos Bronze

• Plating: Gold / Tin over Nickel

• Durability: 10 Cycles

HOW TO ORDER









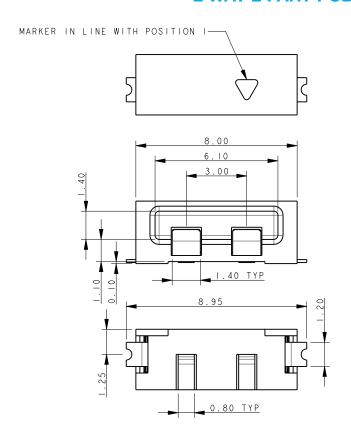


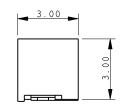
Certification: UL File #E90723

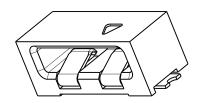




SOCKET 2 WAY 2 PART PCB STRIP CONNECTOR

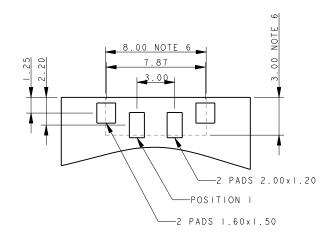


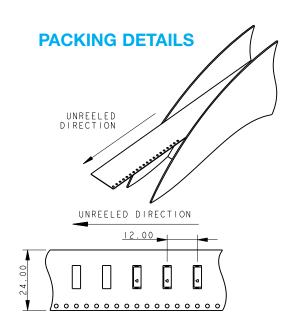




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 37.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

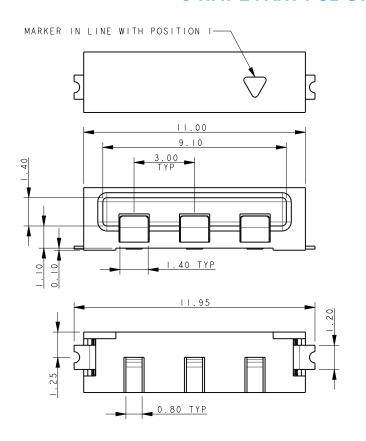


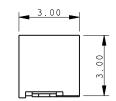


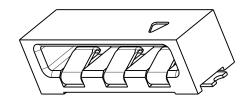




SOCKET 3 WAY 2 PART PCB STRIP CONNECTOR

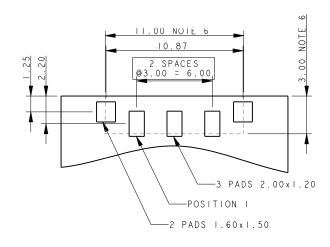


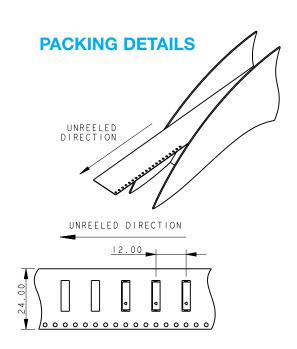




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 37.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

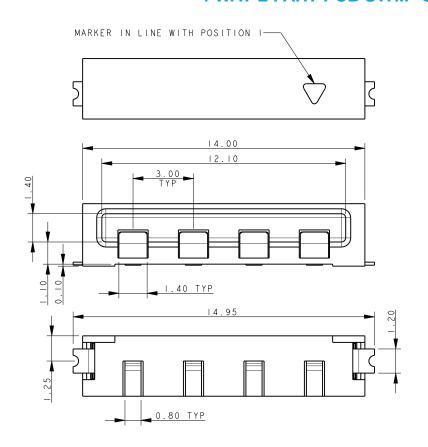


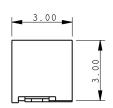


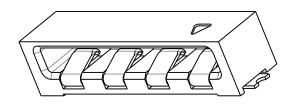




SOCKET 4 WAY 2 PART PCB STRIP CONNECTOR

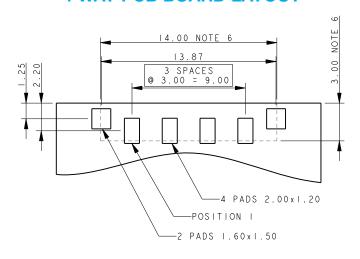


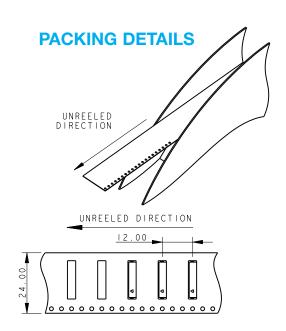




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 37.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

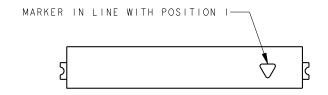


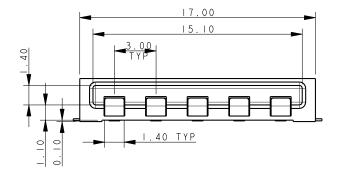


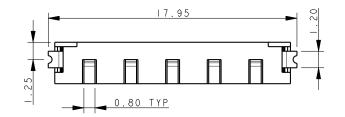


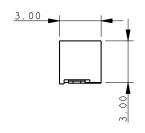


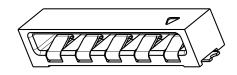
SOCKET 5 WAY 2 PART PCB STRIP CONNECTOR





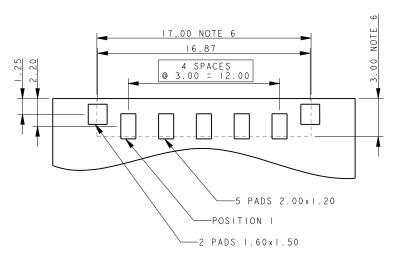


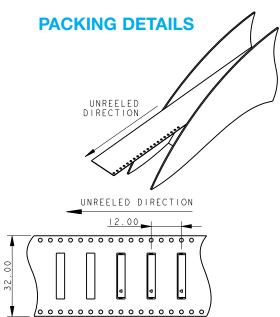




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 37.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

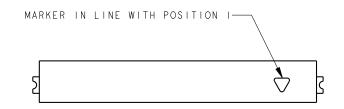


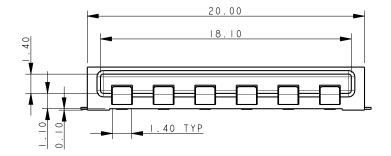


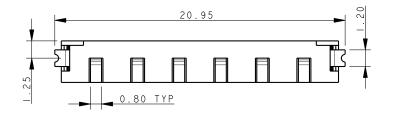


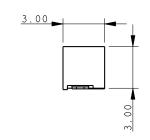


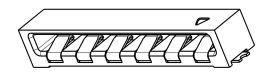
SOCKET 6 WAY 2 PART PCB STRIP CONNECTOR





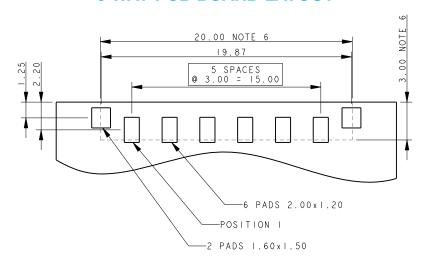


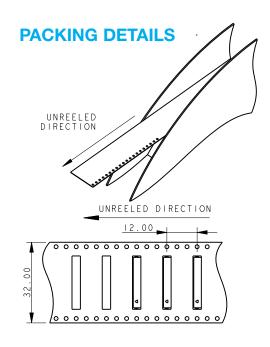




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 37.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.







Top Load Socket: BTB

22-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. The top loading socket allows complete PCB's to be replaced in the field without having to dissemble the entire strip of boards. The connector has a two part insulator whereby the top of the connector will slide open allowing the plug connector to be pulled out either vertically or at a slight angle. Once the PCB is replaced, the cover is slid back like a Zero Insertion Force (ZIF) connector to the closed position. The PCB layout is identical to the standard horizontal socket to maintain family commonality at the PCB level.

APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- Slide open top: allows field reparability at the light fixture level
- Mates with standard horizontal or cabled plug: no need to change any connectors
- 5 Amp current rating: exceeds general market needs
- Gold plated BeCu spring contacts: reliability for harsh environments
- Available in white: supports SSL market preferences

ELECTRICAL

Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

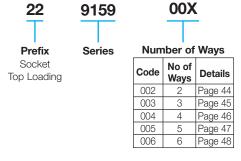
• Insulator Material: Nylon: VL94VO

Contact Material: BeCu / Phos Bronze

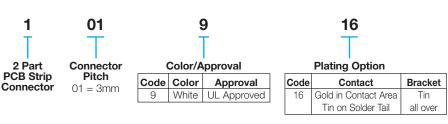
Plating: Gold / Tin over Nickel

• Durability: 10 Cycles

HOW TO ORDER



Certification: UL File #E90723

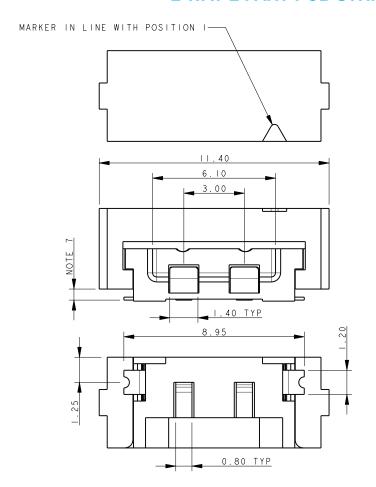


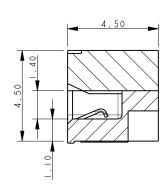






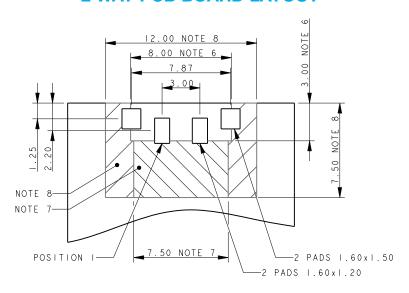
SOCKET TOP LOADING 2 WAY 2 PART PCB STRIP CONNECTOR

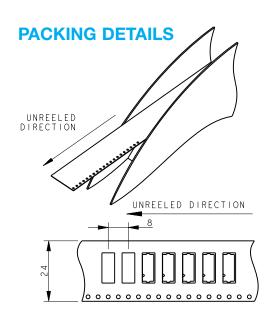




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 43.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

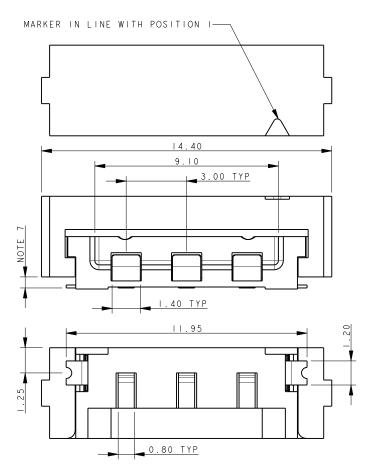


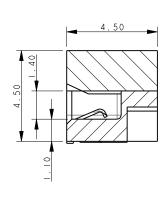






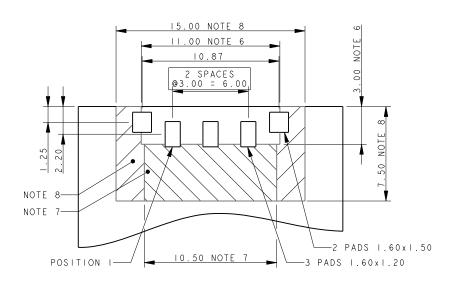
SOCKET TOP LOADING 3 WAY 2 PART PCB STRIP CONNECTOR

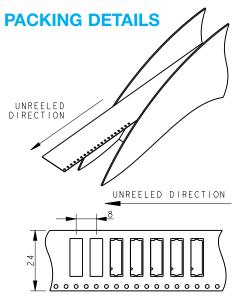




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 43.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

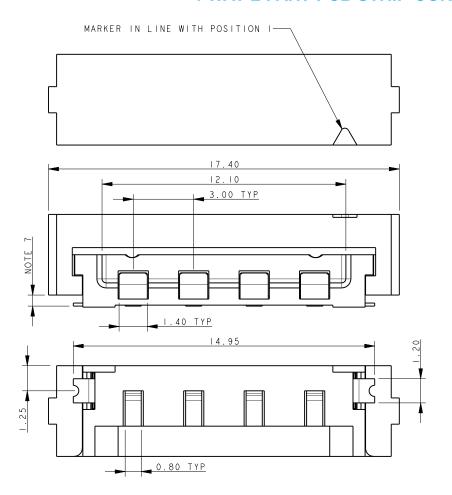


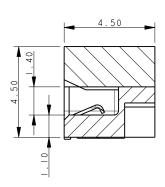






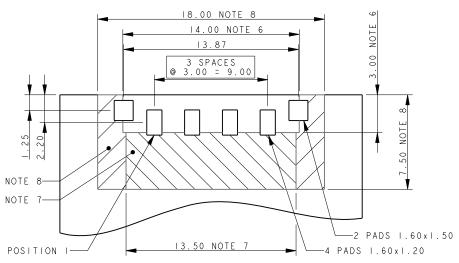
SOCKET TOP LOADING 4 WAY 2 PART PCB STRIP CONNECTOR

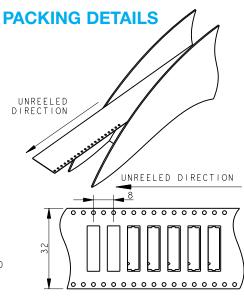




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 43.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

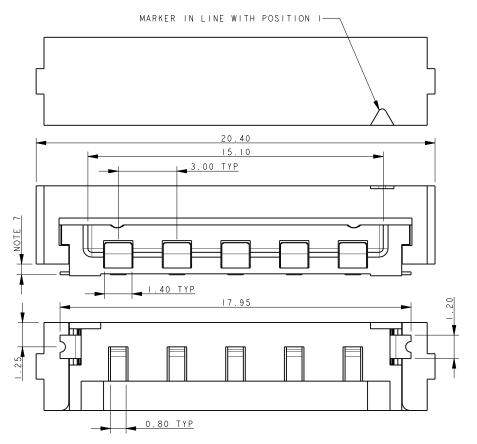


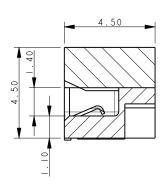






SOCKET TOP LOADING 5 WAY 2 PART PCB STRIP CONNECTOR

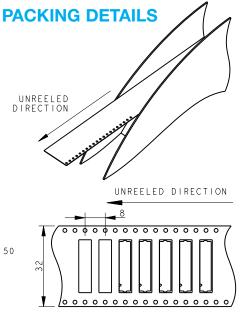




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 43.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.

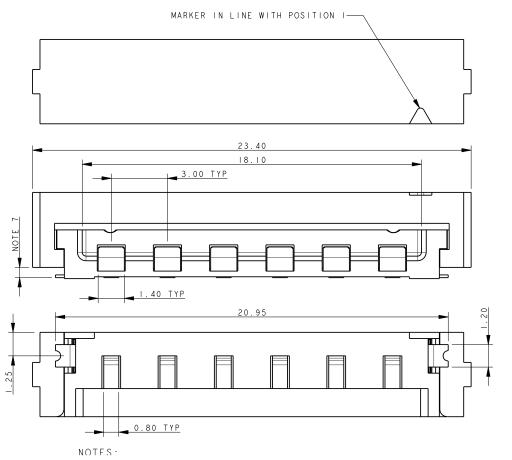
5 WAY PCB BOARD LAYOUT 21.00 NOTE 8 17.00 NOTE 6 16.87 4 SPACES 3.00 = 12.00 NOTE 8 NOTE 7 POSITION | 16.50 NOTE 7 5 PADS | 1.60 x | .50

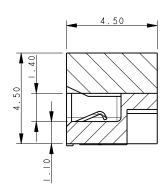






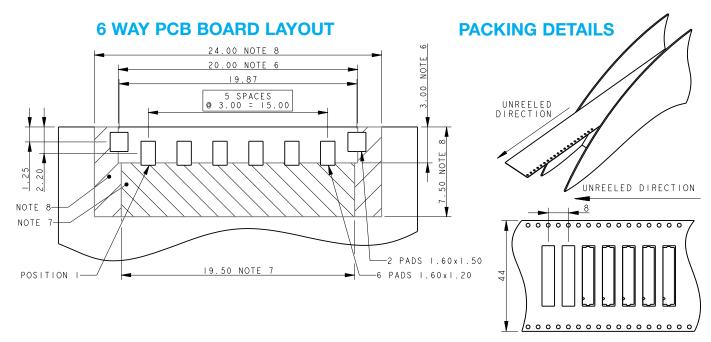
SOCKET TOP LOADING 6 WAY 2 PART PCB STRIP CONNECTOR





NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46. COLOR REFER TO PAGE 43.
- 4. CONTACT MATERIAL: COPPER ALLOY, GOLD OVER NICKEL.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 2.20MM MAXIMUM.
- 8. RESTRICTED COMPONENT HEIGHT UNDER CATCH, 0.40MM MAXIMUM.
- 9. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.





CONNECTOR ASSEMBLY



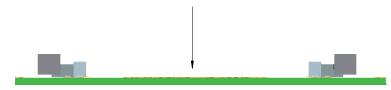




COVER SLID BACK



DROP PCB ASSEMBLY ONTO MATING CONNECTORS





IDC Socket: WTB

24-9159





AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 5 Amps/contact and then function up to 125C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications where products are exposed to harsh mechanical and environmental environments.

The IDC cable socket connector allows for 22-24AWG discrete or cabled wires to be easily and reliability terminated into a 9159 standard interface plug connector. This will allow power and signals to be connectors onto a PCB socket connector while providing positive latching. The wire assembly support block allows for 2 through 6 wires to be terminated all in one step with any standard bench top press. IDC covers provide both through (daisy chain applications) and wire stop termination options.

APPLICATIONS

- Provides Wire-to-Board capabilities to standard 9159 2-Piece connector system
- In conjunction with the IDC plug WTB connector (14-9159), these connectors provide maximum flexibility to bring power and signal wires onto or off of any board level 9159 connector

2 Part

2 Part

Strip

Connector

- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

FEATURES AND BENEFITS

- Mates with standard 9159 horizontal plug, keeping same BTB connector system
- Economical and reliable IDC wire termination
- Gold plated BeCu contact system for high reliability in harsh environments
- Integrally molded latch offers positive latching after mating

ELECTRICAL

• Current Rating: 5 Amps / Contact

Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

• Insulator Material: Nylon: UL94VO

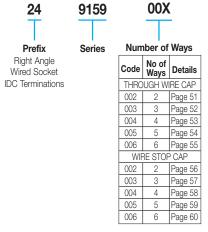
Contact Material: Phosphor Bronze

Plating: Gold / Tin over Nickel

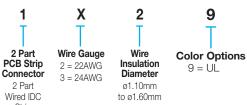
• Durability: 10 Cycles

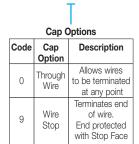
X

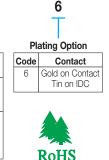
HOW TO ORDER



Certification: UL File #E90723



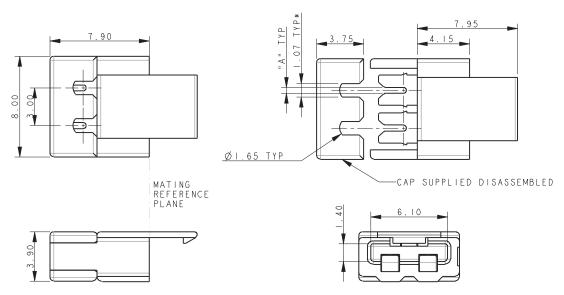






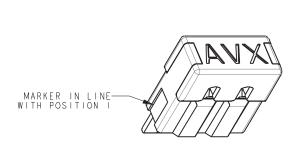


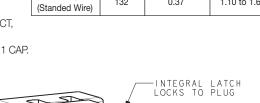
SOCKET WIRED - 2 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL, QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 61.





Code

(Page 50)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

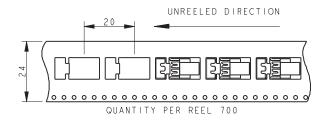
Wire Insulation

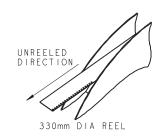
Diameter

1.10 to 1.60

1.10 to 1.60

PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)

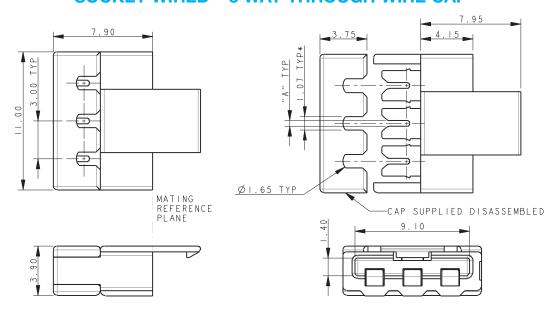






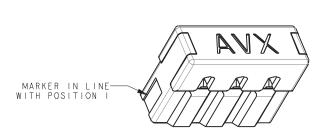


SOCKET WIRED - 3 WAY THROUGH WIRE CAP



NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL, QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 61.





Code

(Page 50)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

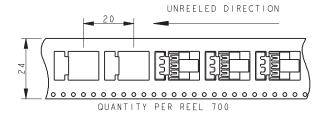
Wire Insulation

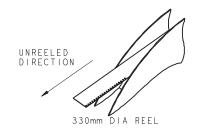
Diameter

1.10 to 1.60

1.10 to 1.60

PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)

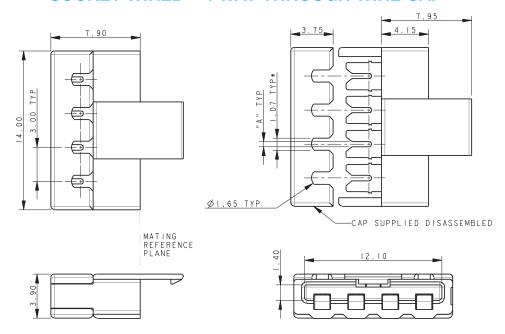






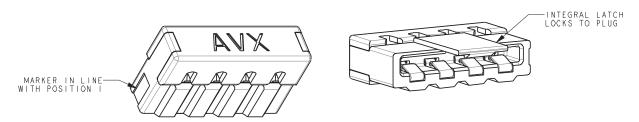


SOCKET WIRED - 4 WAY THROUGH WIRE CAP

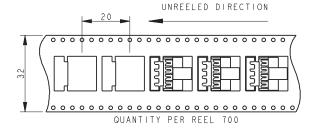


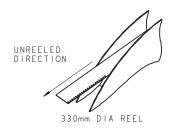
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL, QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 61.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 50)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)

Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60





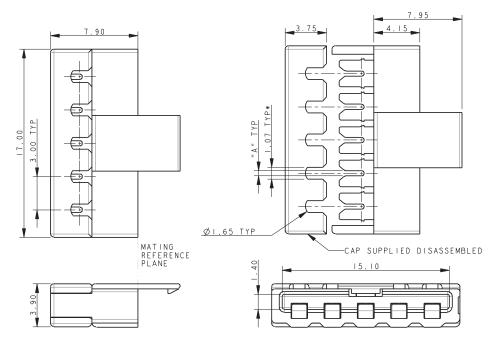
Wire Insulation

Diameter

1.10 to 1.60

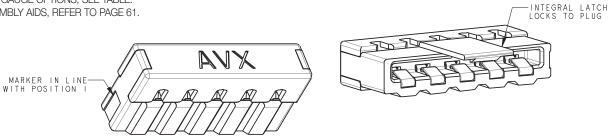
1.10 to 1.60

SOCKET WIRED - 5 WAY THROUGH WIRE CAP

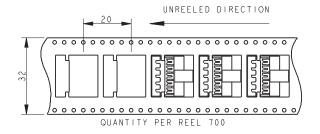


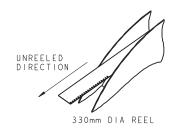
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT,
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 61.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 50)

132

Dimension A

0.37

Wire Gauge

22AWG

(Stranded Wire)

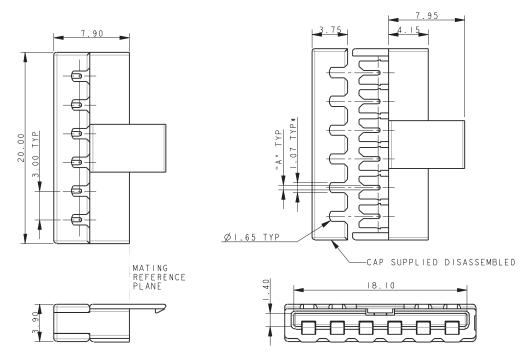
24AWG

(Standed Wire)

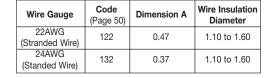


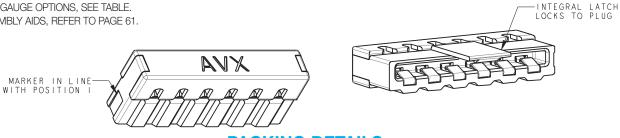


SOCKET WIRED - 6 WAY THROUGH WIRE CAP

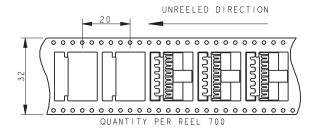


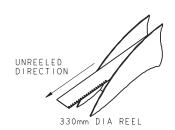
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. THROUGH WIRE CAP, FOR TERMINATION OF WIRE IN ANY POSITION.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT,
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- 9. ASSEMBLY AIDS, REFER TO PAGE 61.





PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)

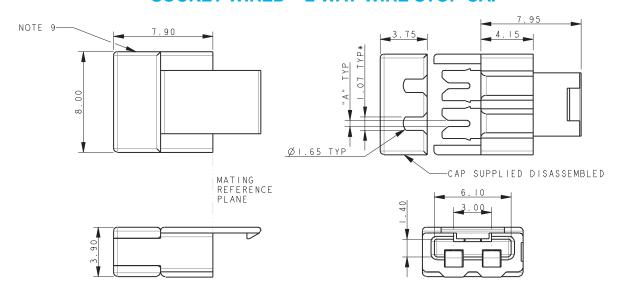








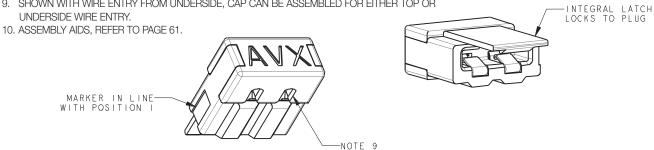
SOCKET-WIRED - 2 WAY WIRE STOP CAP



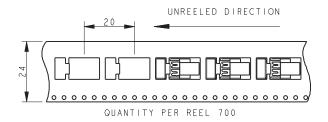
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.

9. SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 50)

122

132

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire) 24AWG

(Standed Wire)

Wire Insulation

Diameter

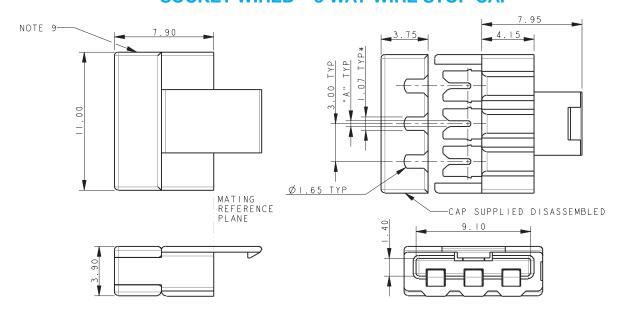
1.10 to 1.60

1.10 to 1.60





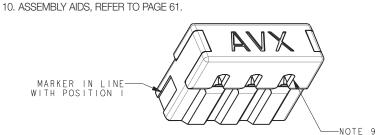
SOCKET-WIRED - 3 WAY WIRE STOP CAP

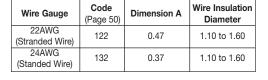


NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.

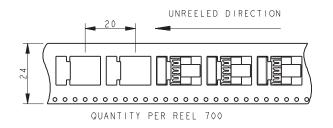
 SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.

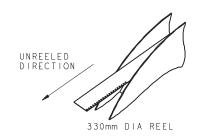




-INTEGRAL LATCH LOCKS TO PLUG











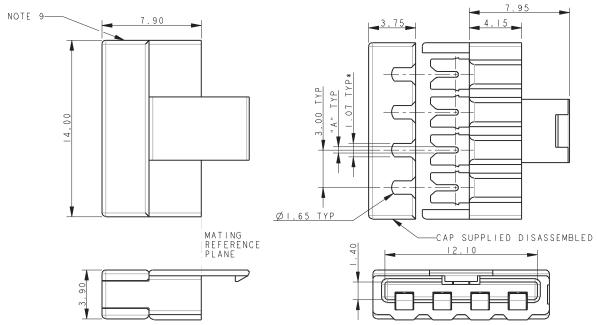
Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60

SOCKET-WIRED - 4 WAY WIRE STOP CAP



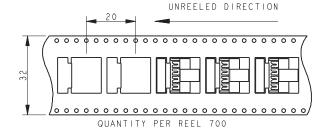
NOTES:

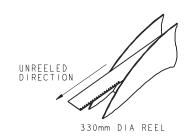
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE
- 3. CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- 6. CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS. SEE TABLE.

SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR

-INTEGRAL LATCH LOCKS TO PLUG UNDERSIDE WIRE ENTRY. 10. ASSEMBLY AIDS, REFER TO PAGE 61. XVA MARKER IN LINE WITH POSITION I

PACKING DETAILS **CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)**





Code

(Page 50)

122

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

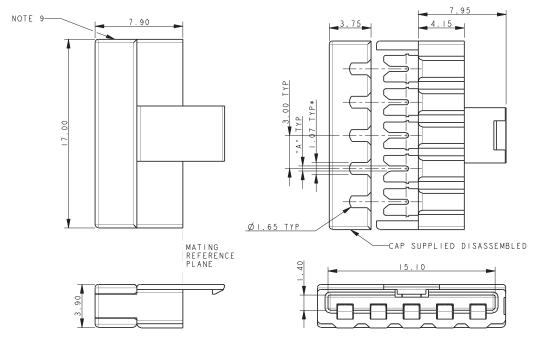
24AWG

(Standed Wire)



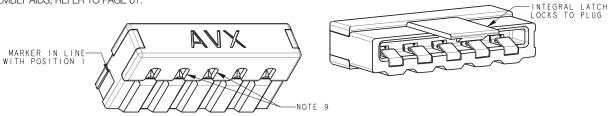


SOCKET-WIRED - 5 WAY WIRE STOP CAP

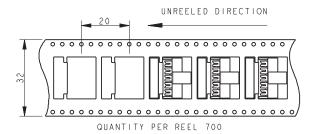


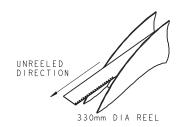
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.
- 10. ASSEMBLY AIDS, REFER TO PAGE 61.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 50)

122

Dimension A

0.47

0.37

Wire Gauge

22AWG

(Stranded Wire)

24AWG

(Standed Wire)



Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60



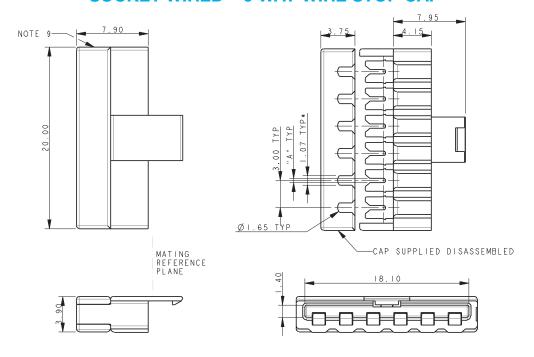
Wire Insulation

Diameter

1.10 to 1.60

1.10 to 1.60

SOCKET-WIRED - 6 WAY WIRE STOP CAP

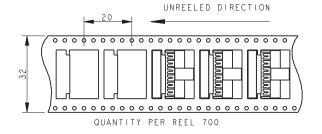


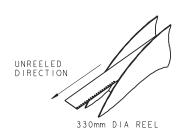
NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119. FOR WIRE ASSEMBLY REFER TO APPLICATION NOTES 201-01-123.
- 2. WIRE STOP CAP, WITH STOP FACE O ONE SIDE TO PROTECT END OF WIRE.
- CAP ACTS AS WIRE ASSEMBLY TOOL. WIRE PREFIT TO CAP, NARROW SLOT TO GRIP WIRE, PERMANENT ASSEMBLY.
- 4. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 5. INSULATOR MATERIAL: NYLON 46, GLASS FILLED, UL94 V-0. COLOR REFER TO PAGE 50.
- CONTACT MATERIAL: COPPER ALLOY, PLATING NICKEL BASE ALL OVER, GOLD ON CONTACT, TIN ON IDC.
- 7. PACKING IN TAPE AND REEL. QTY PER REEL 700, POCKET CONTAINS 1 CONNECTOR AND 1 CAP.
- 8. WIRE GAUGE OPTIONS, SEE TABLE.
- SHOWN WITH WIRE ENTRY FROM UNDERSIDE, CAP CAN BE ASSEMBLED FOR EITHER TOP OR UNDERSIDE WIRE ENTRY.
- 10. ASSEMBLY AIDS, REFER TO PAGE 61.



PACKING DETAILS CAP AND CONNECTOR SUPPLIED TOGETHER (2 PARTS)





Code

(Page 50)

122

132

Dimension A

0.47

0.37

INTEGRAL LATCH LOCKS TO PLUG

Wire Gauge

22AWG

(Stranded Wire)

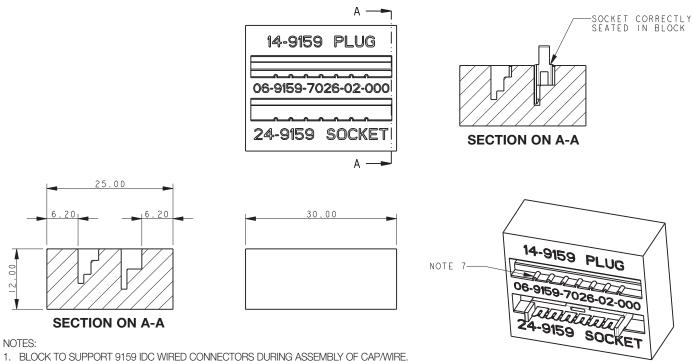
24AWG

(Standed Wire)



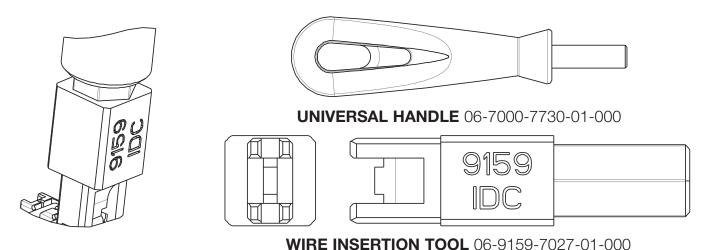


SOCKET-WIRED - ASSEMBLY SUPPORT BLOCK



- 2. PART NUMBER 06-9159-7026-01-000, MATERIAL ALUMINUM. PART NUMBER 06-9159-7026-02-000, MATERIAL NYLON 46.
- 3. CAN BE USED WITH EITHER THE PLUG OR SOCKET CONNECTORS, USE THE CORRECT SLOT AS IDENTIFIED.
- 4. FOR FULL WIRE ASSEMBLY DETAILS REFER TO APPLICATION NOTES 201-01-123.
- 5. ONLY A SIMPLE FLAT BOTTOMED TOOL REQUIRED TO PUSH THE CAP DOWN (NOT SUPPLIED.)
- 6. ALL DIMENSIONS ±0.20 UNLESS TOLERANCED.
- 7. 06-9159-7026-02-000 HAS RIBS TO HELP LOCATE CONTACT/INSULATOR SUB-ASSEMBLY.

SOCKET-WIRED - WIRE INSERTION TOOL

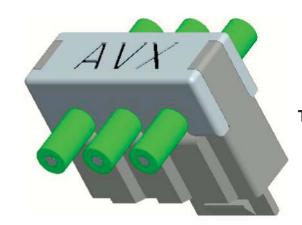


- 1. TOOL 06-9159-7027-01-000 TO INSERT WIRES INTO CAP.
- 2. FOR USE WITH UNIVERSAL HANDLE 06-7000-7720-01-000.
- 3. CAN BE USED WITH BOTH THROUGH WIRE AND WIRE STOP CAPS.
- 4. REFER TO APPLICATION NOTES 201-01-123 FOR FURTHER DETAILS.



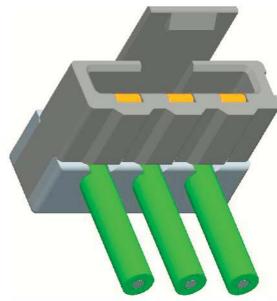


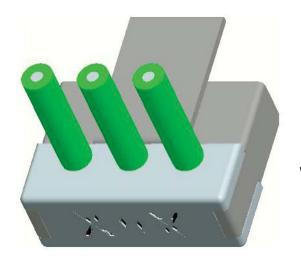
SOCKET-WIRED - ASSEMBLY



THROUGH WIRE





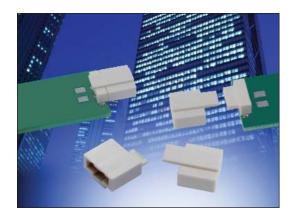


WIRED STOP
WIRE ENTRY TOP

Shorting Socket: BTB

58-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. The 2 position shorting socket was designed to plug onto the last PCB in the lighting strip to short the two contacts together, closing the electrical loop. Just as the cabled plug brings power and signals onto the light strip, the shorting socket completes the circuit while maintaining a single board design.

APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- Mates to the standard plug connector: does not require a new connector
- Integral latching mechanism: Provides positive attachment to the plug
- Gold plated BeCu spring contacts: reliability for harsh environments
- Available in white: supports SSL market preferences

ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon: VL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

HOW TO ORDER

58 9159 002 000 006

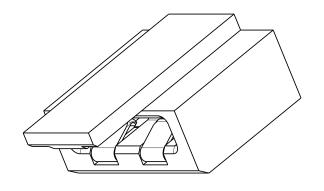
Certification: UL File #E90723

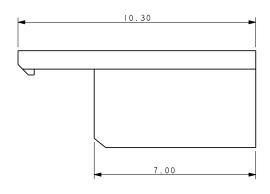


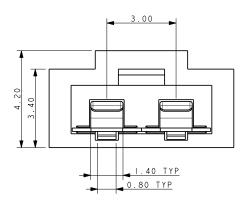
Shorting Socket: BTB

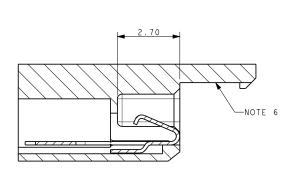


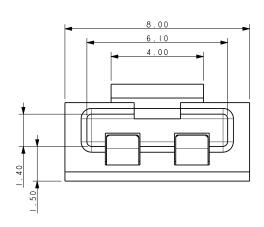




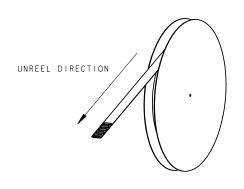


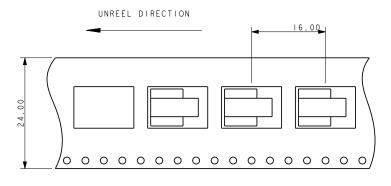






PACKING DETAILS







70-9159





Dissecting linear LED lighting from a connector standpoint looks very simple from far away, but up close there is no magical solution. Even though there have been new connectors developed in recent years specifically for this application, the specific requirements in challenging new designs continue to push for something better, different and more cost competitive. AVX has been one of the companies developing new connector systems for this specific application. The 2-Piece 9159 series offers the smallest profile while still supporting full 5 Amp capability. The 1-Piece version offers the best cost advantage for a connectorized solution, yet has limitations in LED pitch densities.

AVX's latest approach is to not even have a connector! LED's run down the center of the board looking to minimize pitch densities to maximize light output. Connectors interrupt this requirement at each Board-to-Board interface. By design and construction, providing a single contact connector is not economical. However, removing the cost of the connector without removing the functionality provides both a technical and cost effective solution. By removing the insulator and allowing contacts to be placed individually, the PCB can be designed with the LED's in the center of the PCB and the contacts on the outer edges. This optimizes the design for functionality and assembly at the best cost possible. More specifically, the contacts are packaged in T&R for automatic placement, absorb significant x and y assembly tolerances and provide a reliable gold-to-gold active contact interface. Application notes are available to outline all of the contact configurations to support both BTB and WTB applications.

APPLICATIONS

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Reference Product Specification 201-01-149

FEATURES AND BENEFITS

- Gold plated horizontal contact system maximizes lateral PCB alignment and mating tolerances with a proven 2-pc connector solution
- Contact height has been minimized to 1.2mm above the PCB to prevent any shadowing effect
- Contacts can be individually spaced to support any voltage rating with a full 5 Amp current rating
- Individual contacts can support BTB and WTB applications

ELECTRICAL

- Current Rating: 5.0 Amps
- Voltage Rating: UL 300V
 Based on placement distance

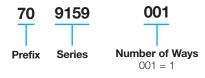
ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Copper Alloy
- Plug Plating: Gold in mating area, tin on tails
- · Socket Contact; Gold all over
- Durability 5 Cycles

HOW TO ORDER



Contact Description
401 = Plug - SMT
402 = Socket - SMT

Packaging Options
006 = Gold in Contact Area



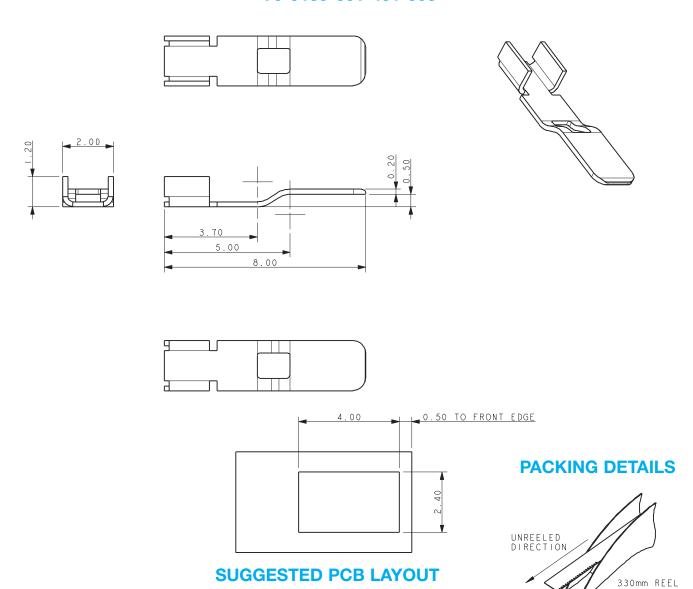
Certification: UL File #E90723





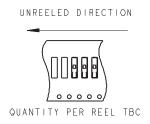


70-9159-001-401-006



NOTES:

- 1. 9159 SINGLE CONTACT, SMT MOUNT, PLUG CONTACT.
- 2. TO MATE WITH 70-9159-001-402-006 SOCKET CONTACT, REFER TO PAGE 67.
- 3. TYPICAL APPLICATIONS SEE PAGES 68 AND 69.
- 4. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-148 AND APPLICATION NOTES 201-01-149.
- 5. COPPER ALLOY, NICKEL UNDERCOAT, GOLD IN CONTACT AREA. TIN ON SOLDER TAIL.
- 6. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 7. PACKAGING IN TAPE AND REEL, QUANTITY PER REEL 4500.



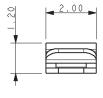


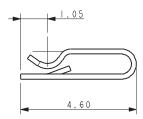


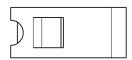


70-9159-001-402-006

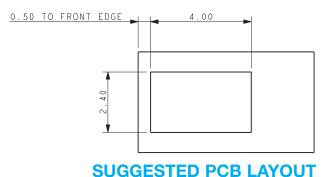










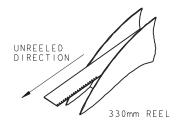


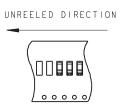
SOCIET FOR EATOC

NOTES:

- 1. 9159 SINGLE CONTACT, SMT MOUNT, SOCKET CONTACT.
- 2. TO MATE WITH 70-9159-001-401-006 PLUG CONTACT, REFER TO PAGE 66.
- 3. TYPICAL APPLICATIONS SEE PAGES 68 AND 69.
- $4. \ \ FOR \ FURTHER \ INFORMATION \ REFER \ TO \ SPECIFICATION \ 201-01-148 \ AND \ APPLICATION \ NOTES \ 201-01-149.$
- 5. COPPER ALLOY, NICKEL UNDERCOAT, GOLD PLATED.
- 6. GENERAL TOLERANCE ± 0.20 UNLESS SPECIFIED.
- 7. PACKAGING IN TAPE AND REEL, QUANTITY PER REEL 4500.

PACKING DETAILS

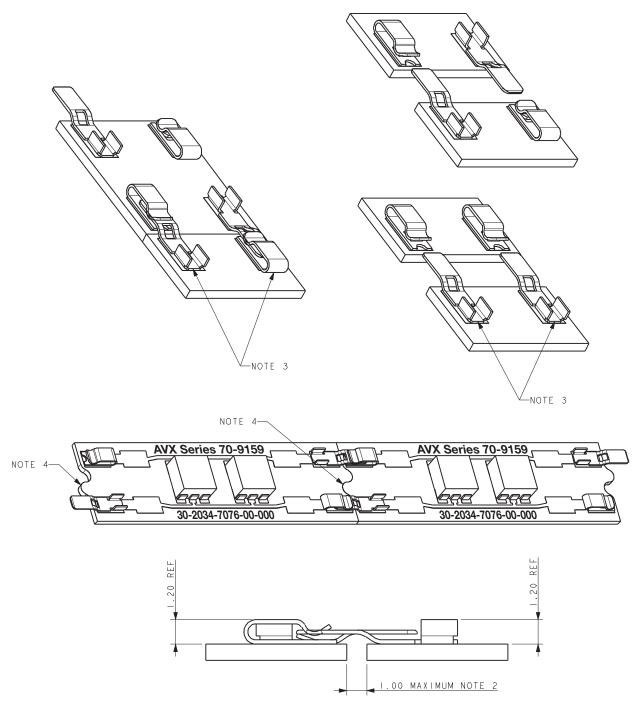








70-9159-001-40X-006 BOARD TO BOARD ASSEMBLY



NOTES:

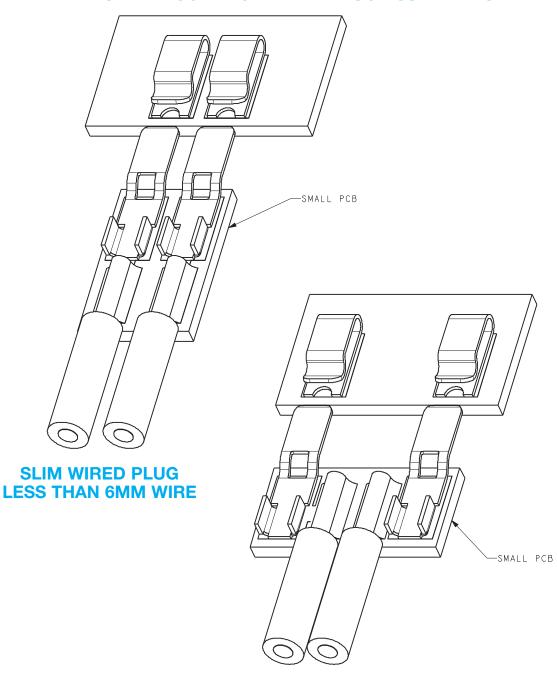
- 1. SIMPLE BOARD TO BOARD ASSEMBLY
- 2. CONTACTS WILL COPE WITH A GAP BETWEEN BOARDS UP TO 1.00MM.
- 3. ALL MATING COMBINATIONS PERMISSIBLE, FOR EXAMBLE BY USING 1 PLUG AND 1 SOCKET ON BOARD E3ND THE BOARDS ARE REVERSABLE.
- 4. TO AID ALIGNMENT BOARDS MAY BE KEYED TOGETHER.



70-9159



70-9159-001-40X-006 SIMPLE COMPACT WIRED PLUG ASSEMBLIES



SHORT WIRED PLUG LESS THAN 5MM DEEP

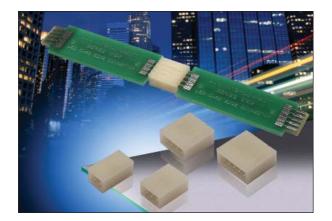
NOTES:

- 1. SIMPLE BUILT UP ASSEMBLY
- 2. CONTACTS CAN BE USED WITH A SUITABLE PCB DESIGN FOR CUSTOMER BUILT SMALL CABLE ASSEMBLIES.
- 3. TWO WAY PLUG CONNECTIONS SHOWN BUT ANY COMBINATION POSSIBLE.

Standard Card Edge: BTB

00-9159





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating. The 1-Piece Card Edge connector was developed to provide a reliable, low cost and simple means of connecting multiple PCB's together. The single stamped contact has dual contact beams to guarantee a high contact force on standard 1.6mm PCB's. These connectors are available in 2 through 5 positions and are on 2.0mm pitch centers to provide a 3 amp continuous

APPLICATIONS

Coplanar PCB mating in SSL products

00X

• LED linear lighting strips

FEATURES AND BENEFITS

- Dual contacts provide positive contact force for enhanced reliability
- Mates with standard 1.6 ± 0.15mm PCB on 2.0mm pad pitch
- 3 amp current rating for high current applications
- Available in white: supports SSL market preferences

ELECTRICAL

- Current Rating: 3 Amps / Contact
- Voltage Rating: 300 VAC

ENVIRONMENTAL

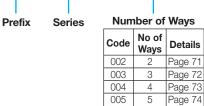
• Operating Temperature: -40°C to +125°C

MECHANICAL

- Insulator Material: Nylon 46: UL94HB
- Contact Material: Phosphor Bronze
- Plating: Tin over Nickel
- Durability: 5 Cycles

HOW TO ORDER 9159

00













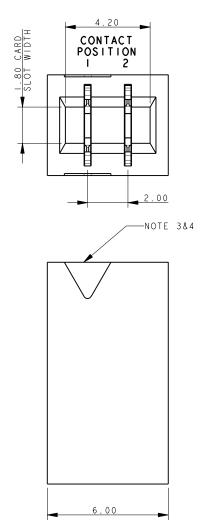


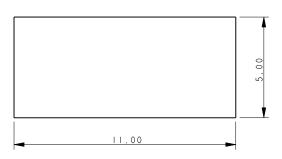
Certification: UL File #E90723





2 WAY SINGLE PART PCB STRIP CONNECTOR



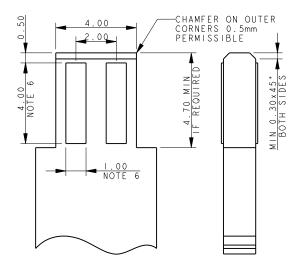


NOTES:

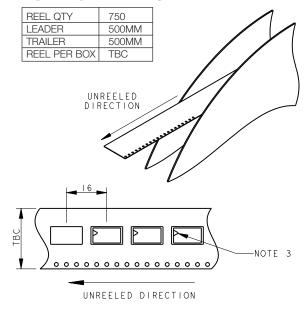
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-118.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 3. ARROW TO INDICATE CONTACT POSITION 1.
- 4. INSULATOR MATERIAL: NYLON 46, UL94 HB, COLOR SEE PAGE 70.
- 5. CONTACT MATERIAL: COPPER ALLOY, TIN PLATED ALL OVER, OR GOLD FLASH OVER TIN.
- 6. PCB PAD, TIN PLATED.

2 WAY PCB BOARD LAYOUT

THICKNESS 1.60 ± 0.15



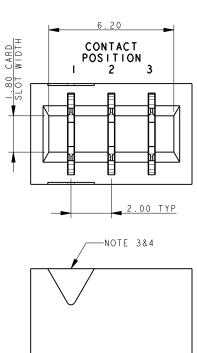
PACKING DETAILS

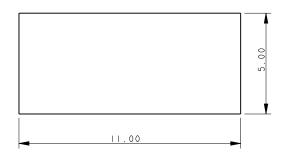






3 WAY SINGLE PART PCB STRIP CONNECTOR





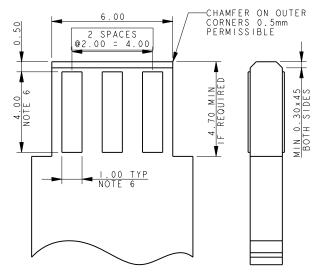
NOTES:

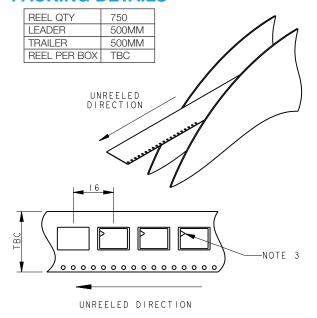
- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-118.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 3. ARROW TO INDICATE CONTACT POSITION 1.
- 4. INSULATOR MATERIAL: NYLON 46, UL94 HB, COLOR SEE PAGE 70.
- 5. CONTACT MATERIAL: COPPER ALLOY, TIN PLATED ALL OVER, OR GOLD FLASH OVER TIN.
- 6. PCB PAD, TIN PLATED.

3 WAY PCB BOARD LAYOUT

8.00

THICKNESS 1.60 ± 0.15

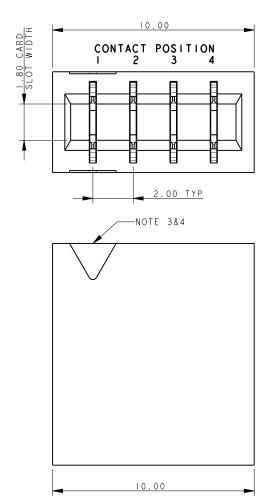


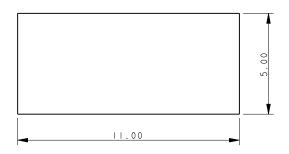






4 WAY SINGLE PART PCB STRIP CONNECTOR

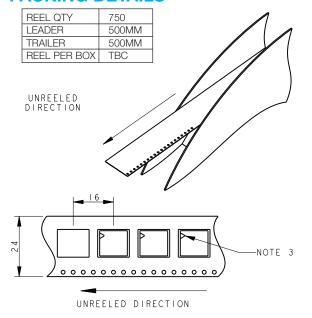




NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-118.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 3. ARROW TO INDICATE CONTACT POSITION 1.
- 4. INSULATOR MATERIAL: NYLON 46, UL94 HB, COLOR SEE PAGE 70.
- 5. CONTACT MATERIAL: COPPER ALLOY, TIN PLATED ALL OVER, OR GOLD FLASH OVER TIN.
- 6. PCB PAD, TIN PLATED.

4 WAY PCB BOARD LAYOUT THICKNESS 1.60 ± 0.15



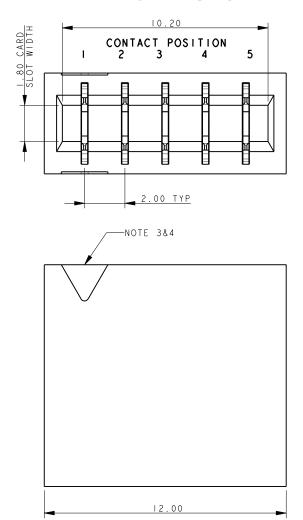


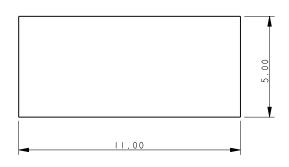
Standard Card Edge: BTB

00-9159



5 WAY SINGLE PART PCB STRIP CONNECTOR

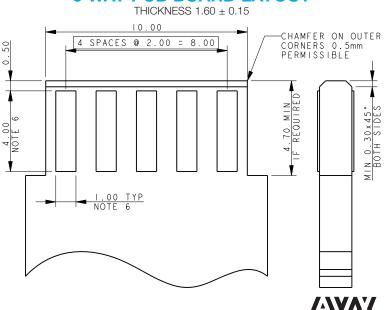


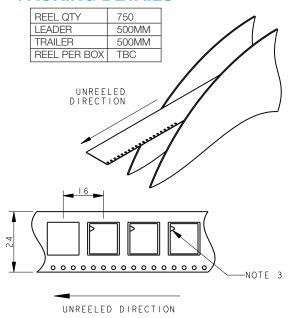


NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-118.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCED.
- 3. ARROW TO INDICATE CONTACT POSITION 1.
- 4. INSULATOR MATERIAL: NYLON 46, UL94 HB, COLOR SEE PAGE 70.
- 5. CONTACT MATERIAL: COPPER ALLOY, TIN PLATED ALL OVER, OR GOLD FLASH OVER TIN.
- 6. PCB PAD, TIN PLATED.

5 WAY PCB BOARD LAYOUT





00-9159





AVX was challenged with increasing the pin count density as well as minimizing the size of the existing coplanar BTB card edge connector for linear strip lighting. The current product is a 2.0mm with single contacts that straddle the PCB to make electrical connection on both the top and bottom side of the board. By simply changing the contacts to a double sided configuration (separate contacts for both the top and bottom of the PCB), AVX was able to double the pin count in the same 2.0mm pitch with minimal to no impact on the electrical performance of the connector. Reducing the size of the connector required a complete new design as the target was a 4p connector with a total length of 4.0mm. To achieve this, AVX removed the end walls and then added a center support/keying rib to pre-align the PCB during mating. This rib the then holds the PCB in the proper functional location.

The new family of connectors is available with contact sizes of 4, 6, 8 and 10 positions, doubling the current products range. The current rating will be 3A for the 4p and 6p, and then drop to 2.5A for the 8p and 10p connector. The connector supports the standard 1.6mm PCB thickness.

This new connector provides the highest density to reliably connect two in-line PCB's together in the most cost effective assembled solution. More importantly, the increased pin count allows for more flexibility in mixing and matching power and signal lines.

APPLICATIONS

- Linear LED strip lighting
- Commercial/Industrial co-planar or extended card applications
- Reference Product Specification 201-01-144

FEATURES AND BENEFITS

- Miniaturized size, achieves 1.0mm in length for each number of contacts (4p = 4.0mm)
- Double Ended/Double Sided contacts for increased pin count density on standard 1.6mm thick PCB's
- Central polarizing/location rib assures proper mating and PCB location
- High current capabilities: 3A; 4p/6p and 2.5A; 8p/10p
- Economical high force Tin-to-Tin contact interface

ELECTRICAL

• Current Rating: 3.0 amps 4p/6p and 2.5 amps 8p/10p

• Voltage Rating: 300 VAC

ENVIRONMENTAL

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

MECHANICAL

• Insulator Material: Nylon 46: UL94VO

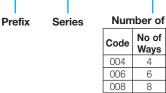
• Contact Material: Phosphor Bronze

Plating: Tin over Nickel

Durability: 5 Cycles

HOW TO ORDER 9159

00



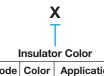
Number of Ways Details Page 76 Page 77 Page 78 010 Page 79

00X



PCB Thickness 61 = Open Ended **PCB Tickness** 1.6-±0.10

61



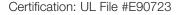
Code Color Application Black Special Order 8 White Standard



Packaging 1 = Bag





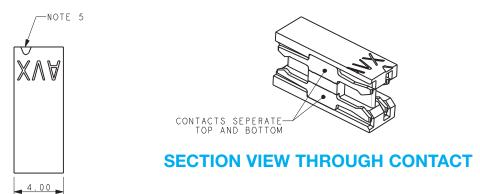




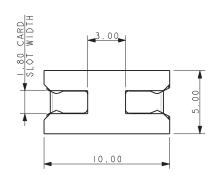
00-9159



4 WAY SINGLE PART PCB STRIP CONNECTOR - OPEN ENDED



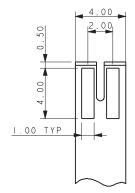
POSITION 1 2 3 4 2.00

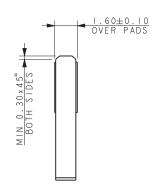


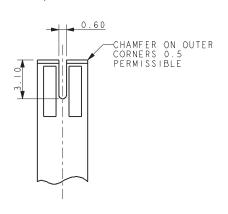
NOTES:

- INSULATOR MATERIAL NYLON 46, UL94 V-0. COLOR REFER TO PAGE 75.
- 2. CONTACT MATERIAL COPPER ALLOY, TIN PLATED
- 3. PARTS TO BE SUPPLIED IN BAGS, 1000 PIECES PER BAG.
- 4. GENERAL TOLERANCE ±0.20MM UNLESS STATED.
- 5. ARROW ADJACENT TO CONTACT POSITION 1.
- 6. PCB PAD, TIN PLATED OR TIN PLATED WITH GOLD FLASH.
- 7. FURTHER DETAILS REFER TO ELCO SPECIFICATION 201-01-144.

SUGGESTED PCB LAYOUT





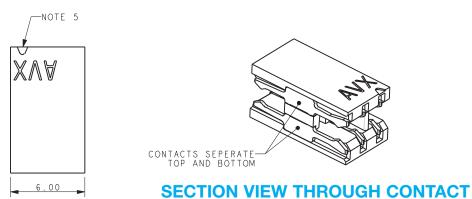




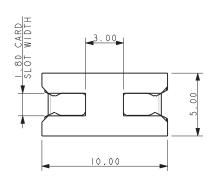
00-9159



6 WAY SINGLE PART PCB STRIP CONNECTOR - OPEN ENDED



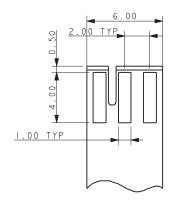
POSITION 1 2 3 4 5 6

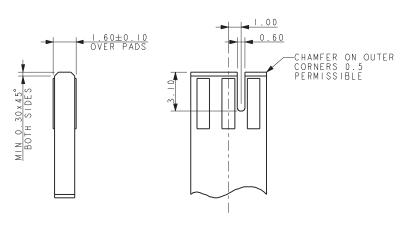


NOTES:

- 1. INSULATOR MATERIAL NYLON 46, UL94 V-0. COLOR REFER TO PAGE 75.
- 2. CONTACT MATERIAL COPPER ALLOY, TIN PLATED
- 3. PARTS TO BE SUPPLIED IN BAGS, 1000 PIECES PER BAG.
- 4. GENERAL TOLERANCE ±0.20MM UNLESS STATED.
- 5. ARROW ADJACENT TO CONTACT POSITION 1.
- 6. PCB PAD, TIN PLATED OR TIN PLATED WITH GOLD FLASH.
- 7. FURTHER DETAILS REFER TO ELCO SPECIFICATION 201-01-144.

SUGGESTED PCB LAYOUT



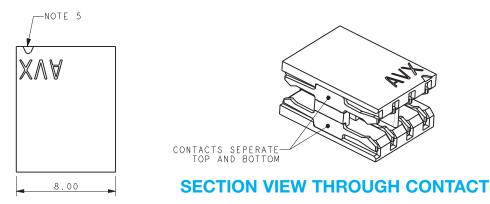


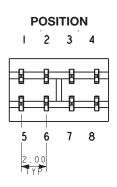


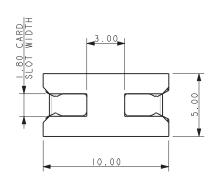
00-9159



8 WAY SINGLE PART PCB STRIP CONNECTOR - OPEN ENDED



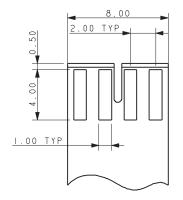


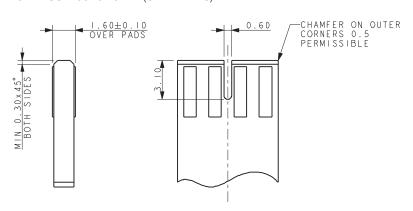


NOTES:

- 1. INSULATOR MATERIAL NYLON 46, UL94 V-0. COLOR REFER TO PAGE 75.
- 2. CONTACT MATERIAL COPPER ALLOY, TIN PLATED
- 3. PARTS TO BE SUPPLIED IN BAGS, 1000 PIECES PER BAG.
- 4. GENERAL TOLERANCE ±0.20MM UNLESS STATED.
- 5. ARROW ADJACENT TO CONTACT POSITION 1.
- 6. PCB PAD, TIN PLATED OR TIN PLATED WITH GOLD FLASH.
- 7. FURTHER DETAILS REFER TO ELCO SPECIFICATION 201-01-144.

SUGGESTED PCB LAYOUT



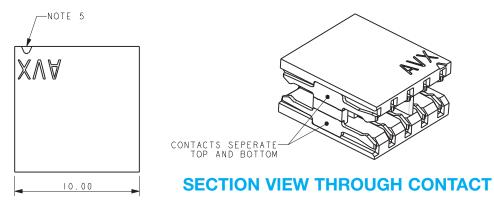


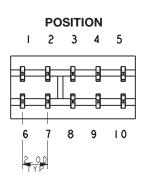


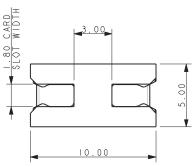
00-9159



10 WAY SINGLE PART PCB STRIP CONNECTOR - OPEN ENDED



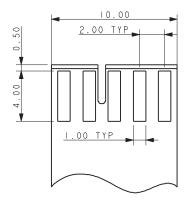


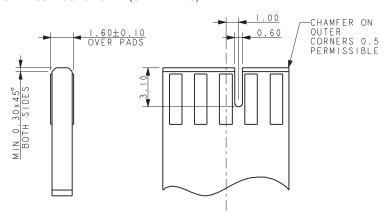


NOTES:

- 1. INSULATOR MATERIAL NYLON 46, UL94 V-0. COLOR REFER TO PAGE 75.
- 2. CONTACT MATERIAL COPPER ALLOY, TIN PLATED
- 3. PARTS TO BE SUPPLIED IN BAGS, 1000 PIECES PER BAG.
- 4. GENERAL TOLERANCE ±0.20MM UNLESS STATED.
- 5. ARROW ADJACENT TO CONTACT POSITION 1.
- 6. PCB PAD, TIN PLATED OR TIN PLATED WITH GOLD FLASH.
- 7. FURTHER DETAILS REFER TO ELCO SPECIFICATION 201-01-144.

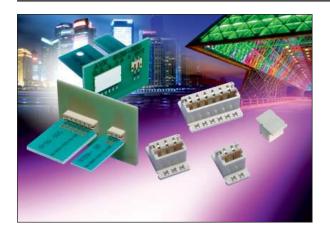
SUGGESTED PCB LAYOUT





00-9159





AVX has developed the 1-Piece bottom entry card edge connector to allow a perpendicular PCB to be mated to a top mounted main FR4 or metal core PCB from the bottom side. The most popular application on the market is in the LED bulb market where the FR4 driver card needs to mate to the top pads on a metal core LED board. A unique design feature of the AVX connector is that it allows for both a 1.6mm and 0.8mm mating PCB thickness, giving designers flexibility in their PCB layout and selection. The additional "Anti-Touch" cap can be ordered pre-assembled onto the connector or separately. This component protects an individual for electrical contact if the lens comes off or the bulb is broken. This is a UL mandated safety requirement.

The connectors offer a range of 2 positions to 6 positions in order to add additional functionality in the application design such as color control or specific control lines. The connector is UL rated with halogen free material and capable of operating temperatures up to 120°C.

APPLICATIONS

- Provides perpendicular, bottom entry PCB mating to a top mounted card edge contact based connector
- Reference application notes 201-01-137
- Reference Product Specification 201-01-132UL

FEATURES AND BENEFITS

- Available 2p-6p for added design functionality and color control in bulb applications
- Low profile top mounted design does not interfere with LED's
- Gold plated BeCu contact system for high reliability in harsh environments
- Accepts both 0.8mm and 1.6mm PCB's for added design options

ELECTRICAL

• Current Rating: 2 Amps / Contact

Voltage Rating: 300 VAC

ENVIRONMENTAL

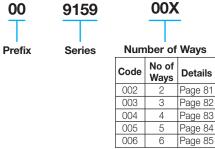
Operating Temperature: -40°C to +120°C

50X

MECHANICAL

- Insulator Material: Halogen Free Nylon UL94VO
- Contact Material: Beryllium Copper
- Plating: Gold / Tin over Nickel
- Durability 10 Cycles

HOW TO ORDER



Single Part PCB Strip Connector Details 501 = Through The Board, Edge Card, No Cap Page 81 502 = Through The Board, Edge Card, Cap Fitted





06



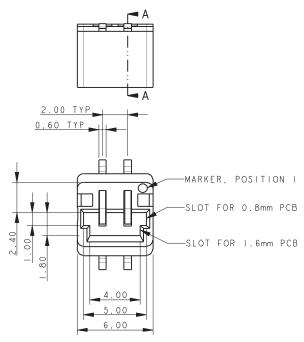
Certification: UL File #E90723

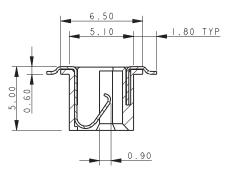


00-9159

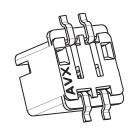


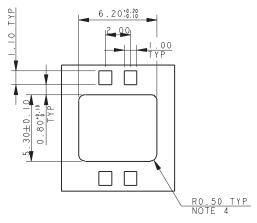
2 WAY THROUGH THE BOARD MATING EDGE CARD CONNECTOR







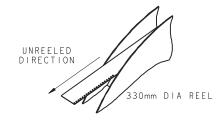


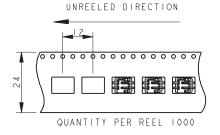


MOUNTING PCB (TOP SIDE)

NOTES:

- 1. THROUGH THE BOARD 2 WAY EDGE CARD CONNECTOR, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. UP TO 0.5MM RAD TO MATCH CONNECTOR PROFILE.
- 5. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 6. INSULATOR: PAR4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR SEE PAGE 80.
- 7. CONTACT: COPPER ALLOW, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 8. BRACKET: COPPER ALLOY, PLATING TIN OVER NICKEL.
- 9. PACKING IN TAPE AND REEL, 1000 PIECES PER REEL.
- 10. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 11. REFER TO PAGE 89 FOR MATCHING PROTECTING CAP.
- 12. UL REFERENCE E90723.



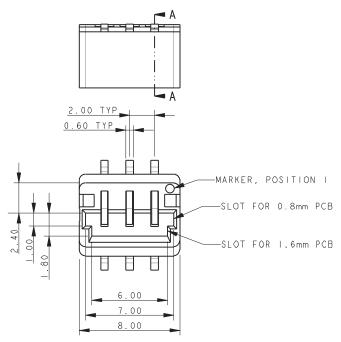


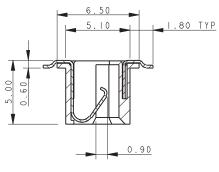


00-9159

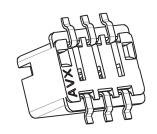


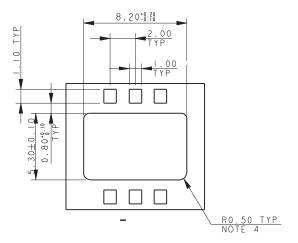
3 WAY THROUGH THE BOARD MATING EDGE CARD CONNECTOR





SECTION A-A



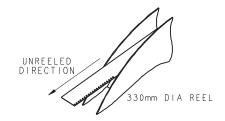


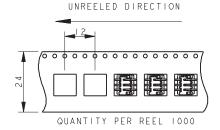
MOUNTING PCB

(TOP SIDE)

NOTES:

- 1. THROUGH THE BOARD 3 WAY EDGE CARD CONNECTOR, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. UP TO 0.5MM RAD TO MATCH CONNECTOR PROFILE.
- 5. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 6. INSULATOR: PAR4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR SEE PAGE 80.
- 7. CONTACT: COPPER ALLOW, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 8. BRACKET: COPPER ALLOY, PLATING TIN OVER NICKEL.
- 9. PACKING IN TAPE AND REEL, 1000 PIECES PER REEL.
- 10. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 11. REFER TO PAGE 89 FOR MATCHING PROTECTING CAP.
- 12. UL REFERENCE E90723.



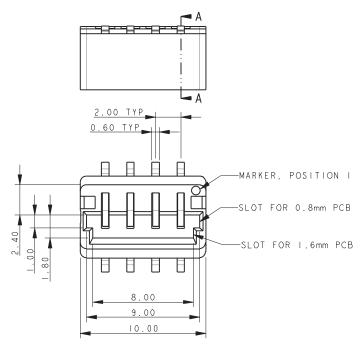


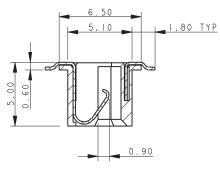


00-9159

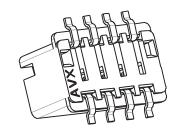


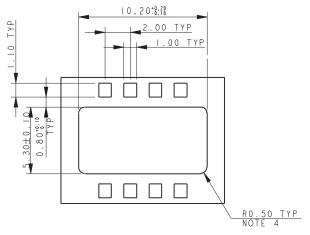
4 WAY THROUGH THE BOARD MATING EDGE CARD CONNECTOR





SECTION A-A

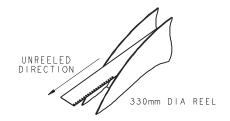


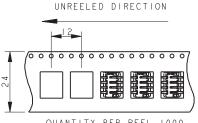


MOUNTING PCB (TOP SIDE)

NOTES:

- 1. THROUGH THE BOARD 4 WAY EDGE CARD CONNECTOR, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. UP TO 0.5MM RAD TO MATCH CONNECTOR PROFILE.
- 5. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 6. INSULATOR: PAR4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR SEE PAGE 80.
- 7. CONTACT: COPPER ALLOW, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 8. BRACKET: COPPER ALLOY, PLATING TIN OVER NICKEL.
- 9. PACKING IN TAPE AND REEL, 1000 PIECES PER REEL.
- 10. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 11. REFER TO PAGE 89 FOR MATCHING PROTECTING CAP.
- 12. UL REFERENCE E90723.





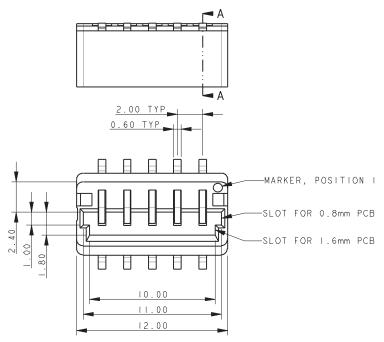


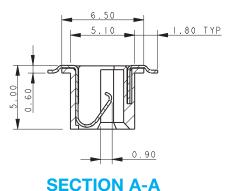


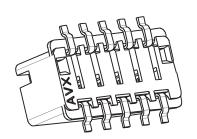
00-9159

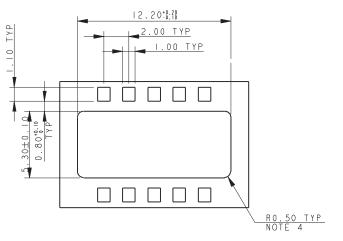


5 WAY THROUGH THE BOARD MATING EDGE CARD CONNECTOR





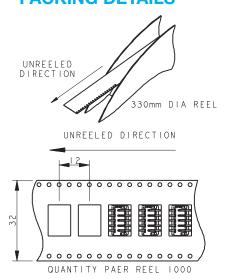




MOUNTING PCB (TOP SIDE)

NOTES:

- 1. THROUGH THE BOARD 5 WAY EDGE CARD CONNECTOR, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. UP TO 0.5MM RAD TO MATCH CONNECTOR PROFILE.
- 5. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 6. INSULATOR: PAR4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR SEE PAGE 80.
- 7. CONTACT: COPPER ALLOW, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 8. BRACKET: COPPER ALLOY, PLATING TIN OVER NICKEL.
- 9. PACKING IN TAPE AND REEL, 1000 PIECES PER REEL.
- 10. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 11. REFER TO PAGE 89 FOR MATCHING PROTECTING CAP.
- 12. UL REFERENCE E90723.

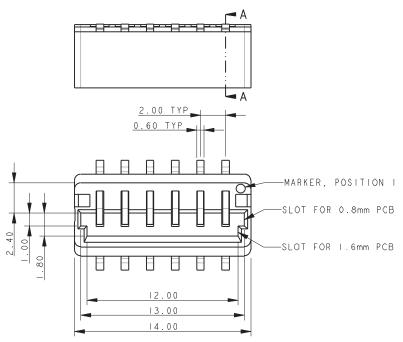


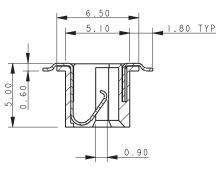


00-9159

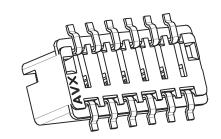


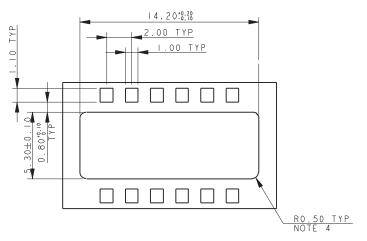
6 WAY THROUGH THE BOARD MATING EDGE CARD CONNECTOR





SECTION A-A

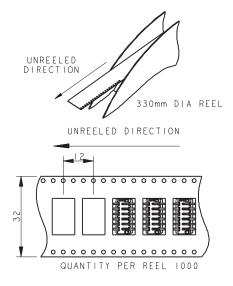




MOUNTING PCB (TOP SIDE)

NOTES:

- 1. THROUGH THE BOARD 6 WAY EDGE CARD CONNECTOR, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. UP TO 0.5MM RAD TO MATCH CONNECTOR PROFILE.
- 5. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 6. INSULATOR: PAR4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR SEE PAGE 80.
- 7. CONTACT: COPPER ALLOW, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 8. BRACKET: COPPER ALLOY, PLATING TIN OVER NICKEL.
- 9. PACKING IN TAPE AND REEL, 1000 PIECES PER REEL.
- 10. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 11. REFER TO PAGE 89 FOR MATCHING PROTECTING CAP.
- 12. UL REFERENCE E90723.

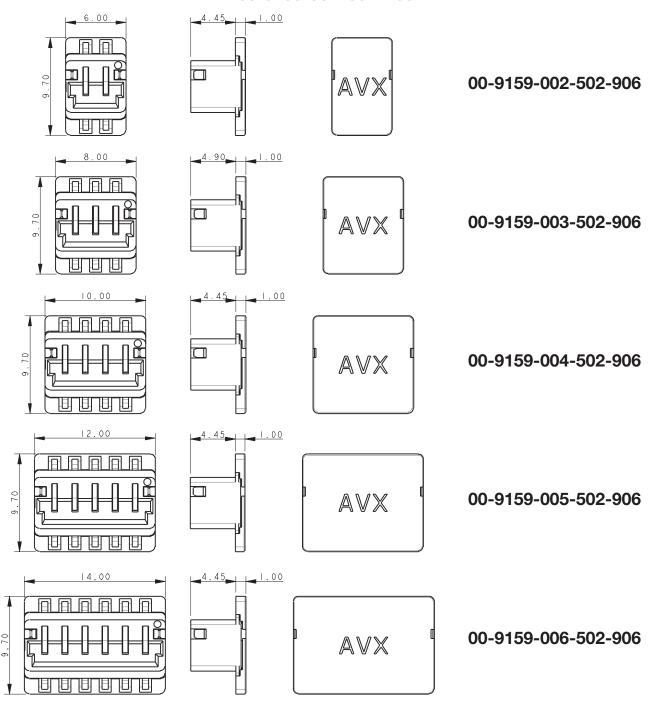




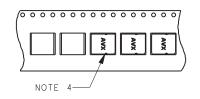




THROUGH THE BOARD MATING EDGE CARD CONNECTOR - WITH CAP 00-9159-00X-502-X06



- 1. 00-9159-00X-501-X06 WITH CAP SUPPLIED FITTED.
- 2. DRAWINGS SHOW OUTLINE DIMENSIONS OF THE 00-9159-00X-502-X06 ASSEMBLIES. ALL OTHER DETAILS ARE AS 00-9159-00X-501-X06 ON PAGES 81-85.
- 3. GENERAL TOLERANCE ±0.20.
- 4. PACKING ORIENTATION.
- 5. UL REFERENCE E90723.

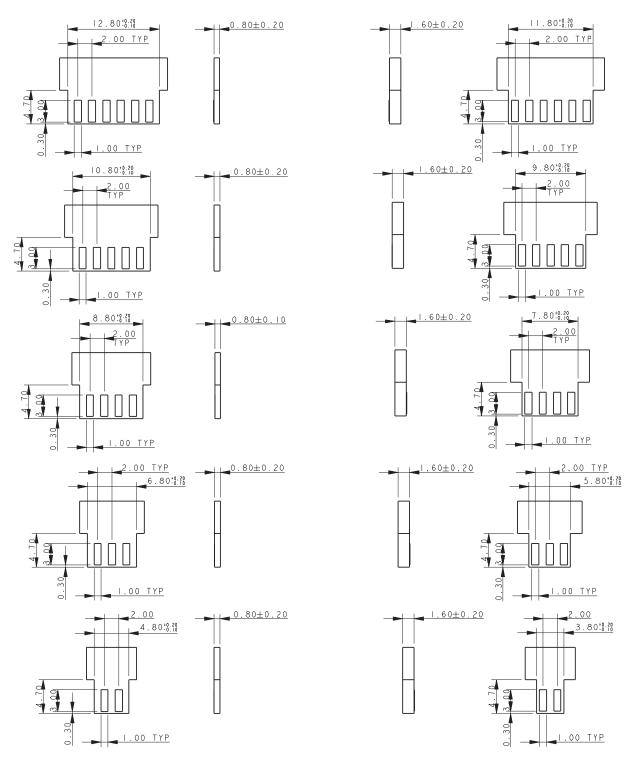




00-9159



THROUGH THE BOARD MATING EDGE CARD CONNECTOR - MATING PCB **MATING PCB - 0.8MM PCB MATING PCB - 1.6MM PCB**



- 1. CORRECT DIMENSIONS FOR EITHER 0.80MM OR F1.60MM PCB THICKENSS MUST BE USED.
- 2. THICKNESS OF PCB INCLUDES ALL LAYERS INCLUDING COPPER AND PLATING.
- 3. PADS TO BE PLATED GOLD OVER NICKEL UNDERCOAT.
- 4. GENERAL TOLERANCE ±0.10 UNLESS STATED.



00-9159

THROUGH THE BOARD MATING EDGE CARD CONNECTOR

CONNECTOR/PCB ASSEMBLY CONNECTOR/PCB ASSEMBLY 0.8MM MATING PCB 1.6MM MATING PCB **NO CAP WITH CAP** REF REF TOP SURFACE OF PCB SMT SIDE 09 09 0 CAP REF 00 CONNECTOR -MATING PCB 60 TOP SURFACE OF PCB-SMT SIDE BOARD INSERTED

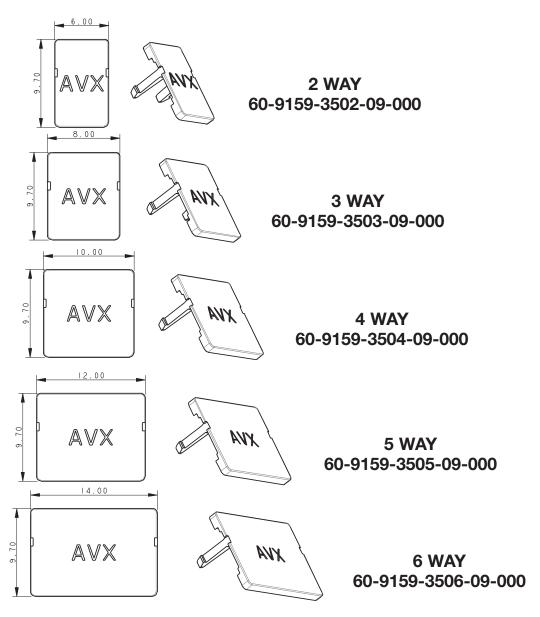
- 1. THROUGH THE BOARD EDGE CARD CONNECTOR.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK. REFER TO PAGE 86 FOR MATING PCB DETAILS.
- 3. CONNECTOR TOP MOUNTING ON PCB.
- 4. PAD DETAILS ON THE MATING PCB ALLOW CONTACT TO BE MADE IN ANY POSITION FROM THE STOP FACE UP TO 1MM FROM THE STOP FACE.
- 5. GENERAL TOLERANCE ±0.20 UNLESS STATED.



00-9159



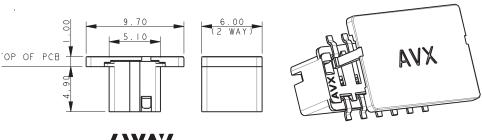
ACCESSORY - PROTECTING CAP



NOTES:

- 1. PROTECTING CAP, ACCESSORY, NOT SUPPLIED WITH CONNECTOR.
- 2. CLIPS TO TOP OF CONNECTOR TO COVE ALL METAL COMPONENTS.
- 3. MATERIAL: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0. COLOR CODE REFER TO PAGE 80, "X" IN PART NUMBER.
- 4. SUPPLIED IN BAGS OF 100 PIECES.
- 5. GENERAL TOLERANCE ±0.20.
- 6. UL REFERENCE E90723.

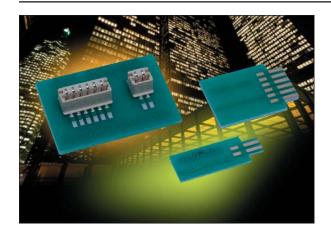
ASSEMBLED CAP





00-9159





AVX continues to develop unique connectors to fill the gap in the industrial market, specifically as it relates to low pin count requirements. The newest addition to AVX's broadening line of one piece card edge connectors is the 2p-6p top entry version which complements the bottom entry version released last year. This new configuration will allow small perpendicular daughter cards to be plugged in from the top side of the main board. The single connector option offers an alternative to the more traditional and costly two piece solution.

This small connector is packed with several key features that provide significant functionality in a broad range of robust industrial applications. The contact system is gold plated for enhanced reliability, signal integrity and full 2A/contact current rating. The PCB board opening is dual slotted to accept either a 0.8mm or 1.6mm thick daughter card within the same connector body.

APPLICATIONS

- Provides a one piece connector solution for low pin count perpendicular PCB mating in industrial applications
- Facilitates easy plug ability for small module/ programming cards

FEATURES AND BENEFITS

- 2 Amp per contact current rating meets robust industrial application requirements
- Removable pick and place cap supports robotic placement and SMT termination
- Gold plated BeCu contact system for high reliability in harsh environments
- Accepts both 0.8mm and 1.6mm PCB's for added design options

ELECTRICAL

• Current Rating: 2 Amps / Contact

Voltage Rating: 300 VAC

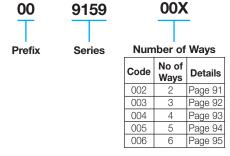
ENVIRONMENTAL

• Operating Temperature: -40°C to +120°C

MECHANICAL

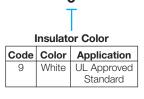
- Insulator Material: Nylon UL94VO
- Contact Material: Beryllium Copper
- Plating: Gold / Tin over Nickel
- Durability 10 Cycles

HOW TO ORDER





551







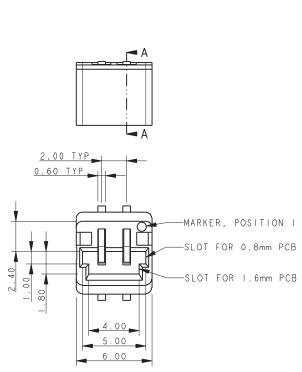
Certification: UL File #E90723

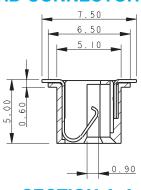


00-9159

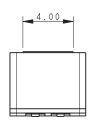


2 WAY TOP MOUNTING EDGE CARD CONNECTOR

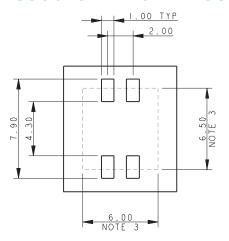


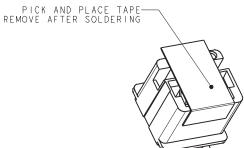




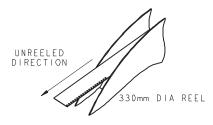


SUGGESTED PCB LAYOUT

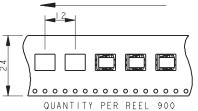




PACKING DETAILS



UNREELED DIRECTION



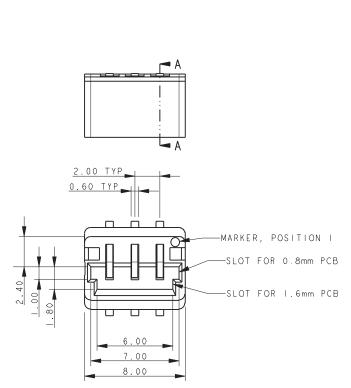
- 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 2 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
- FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 96.
- 3. CONNECTOR OUTLINE.
- 4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 5. INSULATOR: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR REFER TO PAGE 90.
- 6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 7. BRACKET: COPPER ALLOY, PLATING, TIN OVER NICKEL.
- PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
- CONTACT TAILS COPLINARITY WITHIN 0.10.
- 10. UL PRODUCT REFERENCE E90723 (US AND CANADA).

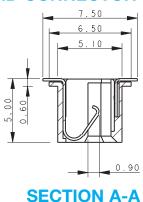


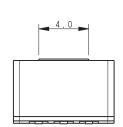
00-9159



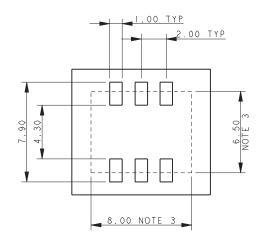
3 WAY TOP MOUNTING EDGE CARD CONNECTOR

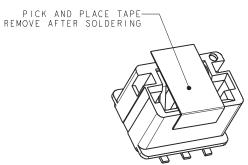


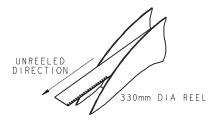




SUGGESTED PCB LAYOUT

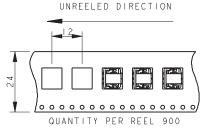






- 1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 3 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 96.
- 3. CONNECTOR OUTLINE.
- 4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 5. INSULATOR: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR REFER TO PAGE 90.
- 6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 7. BRACKET: COPPER ALLOY, PLATING, TIN OVER NICKEL.
- 8. PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
- 9. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 10. UL PRODUCT REFERENCE E90723 (US AND CANADA).

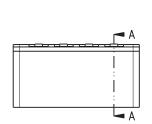


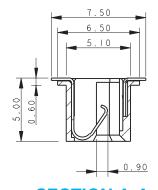


00-9159



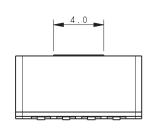
4 WAY TOP MOUNTING EDGE CARD CONNECTOR





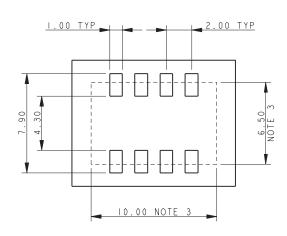
2.00 TYP_ 0.60 TYP. -MARKER, POSITION I SLOT FOR 0.8mm PCB -SLOT FOR I.6mm PCB 8.00 9 00

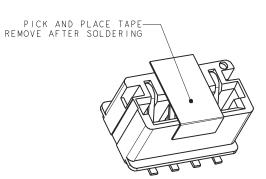


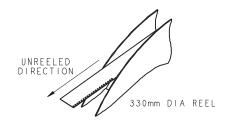


SUGGESTED PCB LAYOUT

10,00

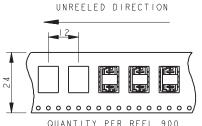






- 1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 4 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 96.
- 3. CONNECTOR OUTLINE.
- 4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 5. INSULATOR: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR REFER TO PAGE 90.
- 6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 7. BRACKET: COPPER ALLOY, PLATING, TIN OVER NICKEL.
- 8. PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
- 9. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 10. UL PRODUCT REFERENCE E90723 (US AND CANADA).

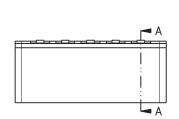


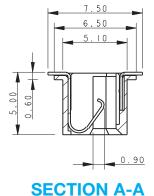


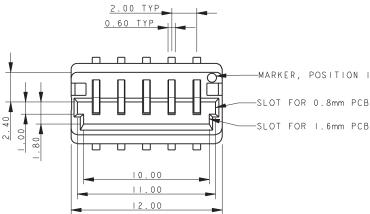
00-9159

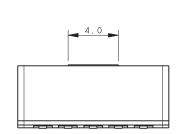


5 WAY TOP MOUNTING EDGE CARD CONNECTOR

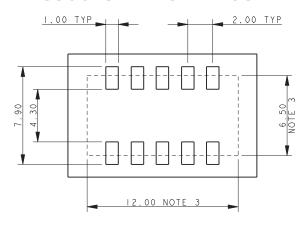


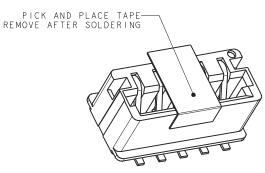




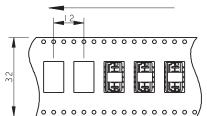


SUGGESTED PCB LAYOUT





- UNREELED DIRECTION . 330mm DIA REEL UNREELED DIRECTION



QUANTITY PER REEL 900

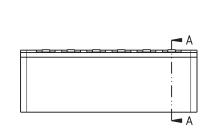
- 1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 5 WAY. FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 96.
- 3. CONNECTOR OUTLINE.
- 4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 5. INSULATOR: PA4T, GLASS FILLED, HALOGEN FREE, UL94 V-0, COLOR REFER TO PAGE 90.
- 6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 7. BRACKET: COPPER ALLOY, PLATING, TIN OVER NICKEL.
- 8. PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
- 9. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 10. UL PRODUCT REFERENCE E90723 (US AND CANADA).



00-9159

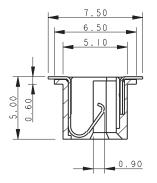


6 WAY TOP MOUNTING EDGE CARD CONNECTOR

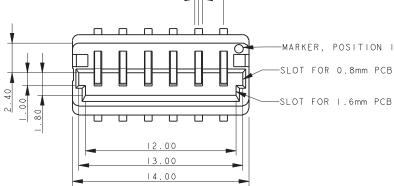


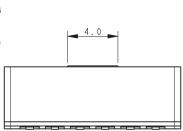
2.00 TYP

<u>0.60 TY</u>P

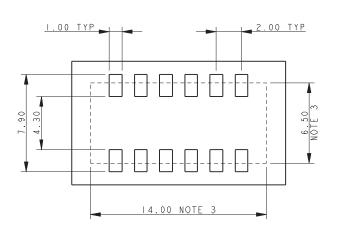


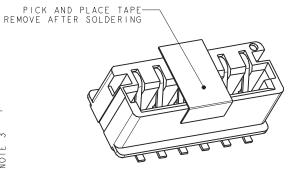
SECTION A-A





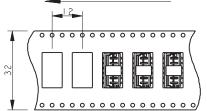
SUGGESTED PCB LAYOUT





PACKING DETAILS

- UNREELED DIRECTION 330mm DIA REEL
 - UNREELED DIRECTION



QUANTITY PER REEL 900

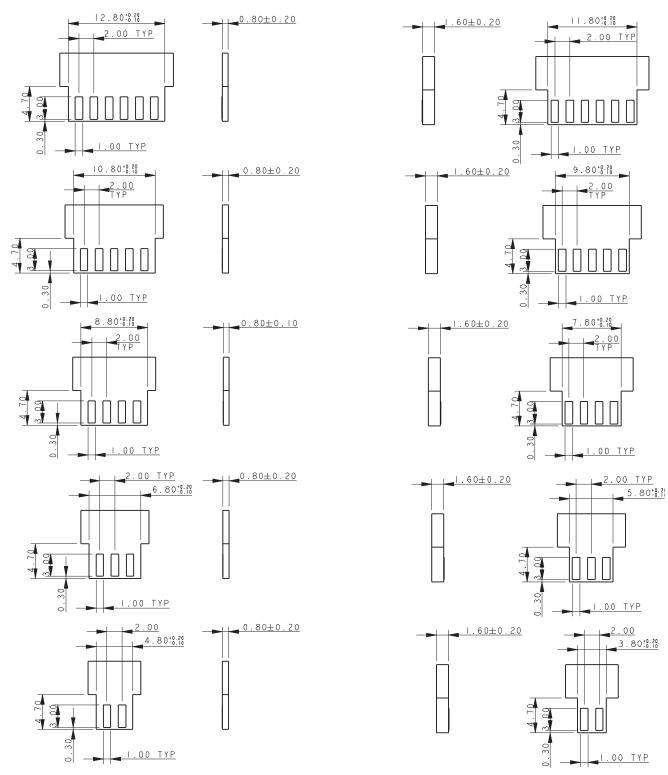
- 1. 5159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR, 6 WAY, FOR FURTHER DETAILS REFER TO PRODUCT SPECIFICATION 201-01-136 AND APPLICATION NOTES 201-01-137.
- FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK PCB. (DETAILS SAME AS 9159-500), REFER TO PAGE 96.
- 3. CONNECTOR OUTLINE.
- 4. ALL DIMENSIONS ±0.20 UNLESS TOLERANCE SPECIFIED.
- 5. INSULATOR: PA4T. GLASS FILLED. HALOGEN FREE, UL94 V-0. COLOR REFER TO PAGE 90.
- 6. CONTACT: COPPER ALLOY, NICKEL PLATED WITH GOLD FLASH ON NOSE AND TIN ON TAILS.
- 7. BRACKET: COPPER ALLOY, PLATING, TIN OVER NICKEL.
- 8. PACKING IN TAPE AND REEL, 900 PIECES PER REEL.
- 9. CONTACT TAILS COPLINARITY WITHIN 0.10.
- 10. UL PRODUCT REFERENCE E90723 (US AND CANADA).



00-9159



TOP MOUNTING EDGE CARD CONNECTOR - MATING PCB



- 1. CORRECT DIMENSION FOR EITHER 0.80MM OR 1.60MM PCB THICKNESS MUST BE USED.
- 2. THICKNESS OF PCB INCLUDES ALL LAYERS INCLUDING COPPER AND PLATING.
- 3. PADS TO BE PLATED GOLD OVER NICKEL UNDERCOAT.
- 4. GENERAL TOLERANCE ±0.10 UNLESS STATED.

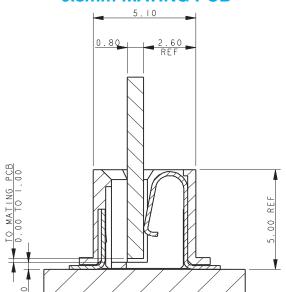


00-9159

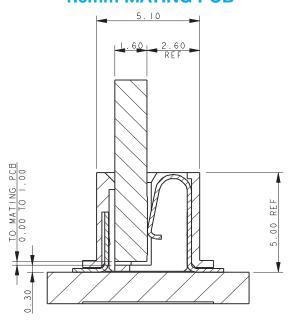


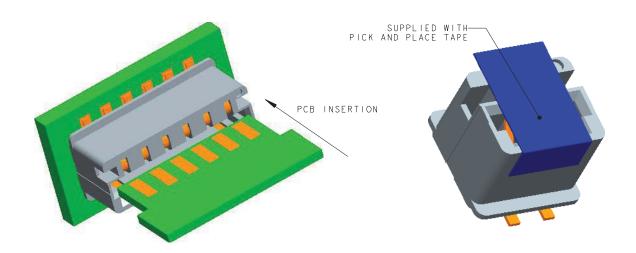
TOP MOUNTING EDGE CARD CONNECTOR ASSEMBLY

CONNECTOR/PCB ASSEMBLY 0.8mm MATING PCB



CONNECTOR/PCB ASSEMBLY 1.6mm MATING PCB





- 1. 9159-500 SERIES TOP MOUNTING EDGE CARD CONNECTOR.
- 2. FOR MATING PCB EITHER 0.8MM OR 1.6MM THICK, REFER TO PAGE 96 FOR MATING PCB DETAILS.
- 3. CONNECTOR SURFACE MOUNTING ON PCB.
- 4. PAD DETAILS ON THE MATING PCB ALLOW CONTACT TO BE MADE IN ANY POSITION FORM THE STOP FACE UP TO 1MM FROM THE STOP FACE.
- 5. GENERAL TOLERANCE ±0.20 UNLESS STATED.

9155-100





AVX has been leading the industry with reliable Board-to-Board (BTB) compression connectors for commercial, medical and harsh industrial applications, obtaining the very first contact patent in the early 1990's. The broad range of connectors offers both signal contacts which support 1 Amp/contact up to 40 position as well as low pin count (LPC) power contacts up to 3 Amps/contact.

The newest addition is the Ultra Low Profile (ULP) power connector that supports a 1.3mm compressed height, the lowest on the market. Gold plated Beryllium Copper (BeCu) contacts offers the most reliable and resilient contact performance in this miniature package. The sweeping contact design offers 0.7mm deflection range, long contact wipe and in excess of 40 grams of contact force at minimum operating deflection. All combined, this connector is rated at an unbelievable 5000 mating cycles for mechanical endurance.

APPLICATIONS

- Low profile power, signal, ground or shielding requirements
- Repeatable/Pluggable module or battery pack requirements
- Low profile flex circuit to PCB applications

FEATURES AND BENEFITS

- High Reliability / High Cycle Life BeCu contacts for maximum system performance
- ULP 1.3mm minimum operating height with 0.7mm "Z" axis compression/tolerance range
- Gold plating supports a broad range applications based on reliability and environments
- 3 Amp contact rating over a -40°C to +105°C operating range supports a broad application spectrum

ELECTRICAL

- Current Rating: 3 Amps/Contact
- Voltage Rating: 125VAC

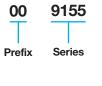
ENVIRONMENTAL

Operating Temperature:
 -40°C to +105°C

MECHANICAL

- Contact Material: Beryllium Copper
- Plating: Selective Gold over Nickel, Tin on tails
- Durability: 5,000 Cycles

HOW TO ORDER



Number of Positions
002 = 2p
003 = 3p

Low Profile
100 = No Stop
101 = Stop

Packaging Options
0.4 µm Selective Gold, Tin Tail

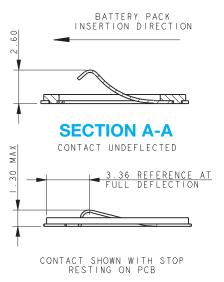
RoHS



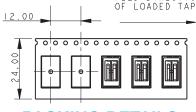




2 WAY LOW PROFILE CONNECTOR NO STOP

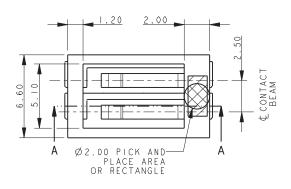


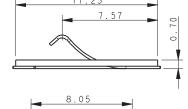


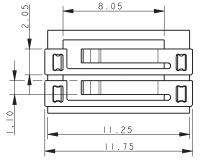


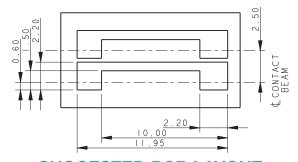
PACKING DETAILS

REEL QTY	1500	
LEADER	500MM	
TRAILER	500MM	









SUGGESTED PCB LAYOUT

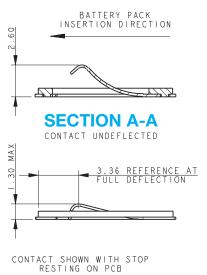
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY, INSULATOR GLASS FILLED NYLON. COLOR: BLACK.
- 3. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 4. PACKING DETAILS SEE TABLE.
- 5. FOR MATING PAD DETAILS REFER TO PAGE 103.

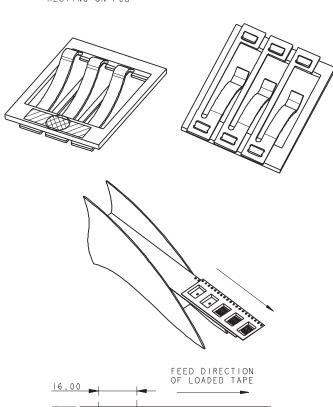


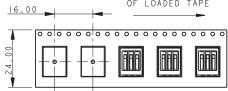
9155-100



3 WAY LOW PROFILE CONNECTOR NO STOP

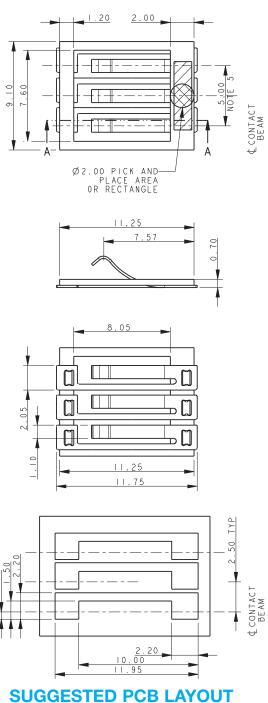






PACKING DETAILS

REEL QTY	1200	
LEADER	500MM	
TRAILER	500MM	



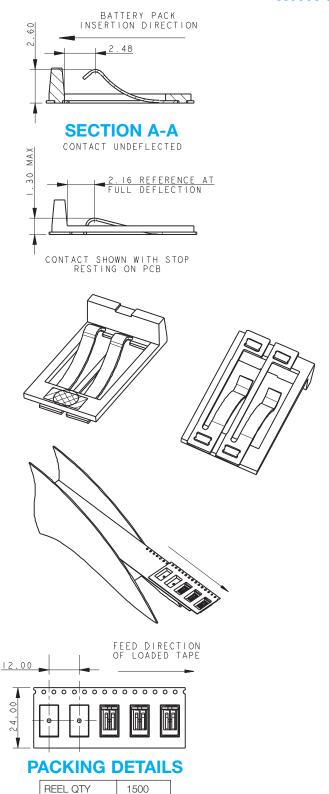
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
- 3. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 4. PACKING DETAILS SEE TABLE.
- 5. 2 EQUAL PITCHES @ 2.50 = 5.00.
- 6. FOR MATING PAD DETAILS REFER TO PAGE 103.







2 WAY LOW PROFILE CONNECTOR WITH STOP

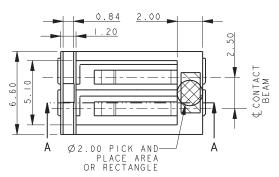


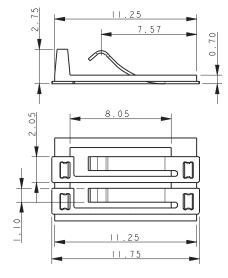
LEADER

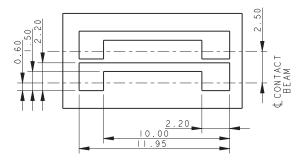
TRAILER

500MM

500MM







SUGGESTED PCB LAYOUT

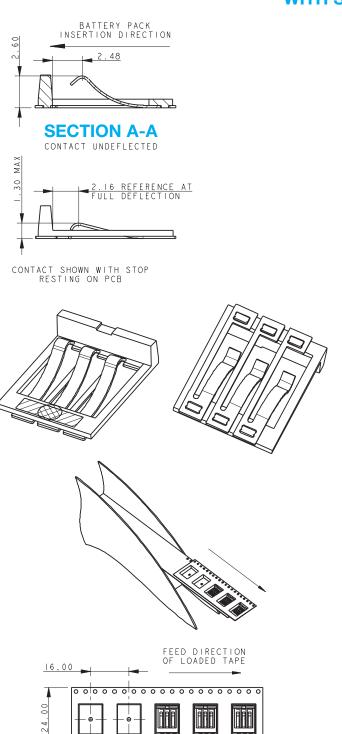
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY, INSULATOR - GLASS FILLED NYLON. COLOR: BLACK.
- 3. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 4. PACKING DETAILS SEE TABLE.
- 5. FOR MATING PAD DETAILS REFER TO PAGE 103.



9155-100

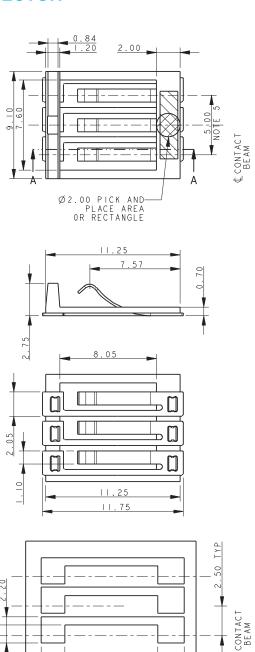


3 WAY LOW PROFILE CONNECTOR WITH STOP



PACKING DETAILS

REEL QTY	1200	
LEADER	500MM	
TRAILER	500MM	



SUGGESTED PCB LAYOUT

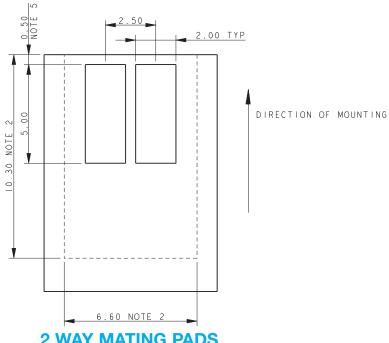
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-094.
- 2. MATERIALS: CONTACT COPPER ALLOY, INSULATOR GLASS FILLED NYLON. COLOR: BLACK.
- 3. TOLERANCE ±0.20 UNLESS SPECIFIED.
- 4. PACKING DETAILS SEE TABLE.
- 5. 2 EQUAL PITCHES @ 2.50 = 5.00.
- 6. FOR MATING PAD DETAILS REFER TO PAGE 103.



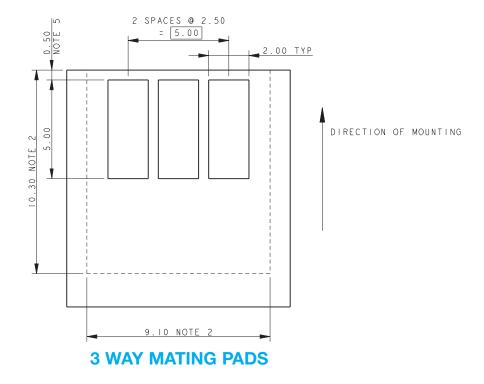
9155-100



LOW PROFILE MATING PADS



2 WAY MATING PADS



- 1. SUGGESTED MATING PADS FOR LOW PROFILE BATTERY CONNECTORS.
- 2. OUTLIE OF CONNECTOR.
- 3. PROFERED PLATING ON PADS GOLD OVER NICKEL.
- 4. REFERENCE DIMENSIONS.
- 5. DIMENSION TO EDGE OF BOARD FOR CONNECTORS WITH STOP.



Low Profile Single Contact

70-9155





Designers for ruggedized connectors to meet harsh environments continue to look for new products which will reduce size and cost without jeopardizing performance. The new Ultra-Low Profile (ULP) compression contact from AVX surface mounts to a PCB and provides a reliable compression connection to the mating board, even under extreme shock and vibration applications. With over 20 years of 1-Piece compression contact experience, this innovative contact offers full connector performance functionality at the individual contact level. Thus, allowing single contacts to be placed in any location or position on a PCB.

The high force beryllium copper contact is gold plated to maximize reliability and signal integrity. The current offering has two contacts with nominal heights of 1.0mm and 1.5mm. Add in the "Z" axis tolerance range and the compressed height covers 0.75mm up to 1.75mm. The contacts are supplied in tape and reel for easy SMT placement.

APPLICATIONS

- Industrial/Ruggedized handheld or portable devices
- BTB connection for any traditional power or signal application
- Ground connections between PCB's or housings

FEATURES AND BENEFITS

- Reliable gold plated Beryllium Copper contacts for high cycle life and signal integrity up to 1000 cycles
- Tape and reel packaged for automated SMT placement
- Sweeping beam design for pluggable/module applications
- Three gold plating options to match end product environmental or expected life requirements

ELECTRICAL

- Current Rating: 3 Amps
- Voltage Rating: UL 300V
 Based on placement distance

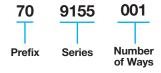
ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Beryllium Copper
- Contact Plating: Gold over Nickel
- Durability: 50, 500 and 1000 cycles

HOW TO ORDER





Code Nominal Operating Height		Contact Operating Height Range			
610	1.00mm	0.75mm to 1.25mm			
615	1.50mm	1.25mm to 1.75mm			



Code	Gold Thickness	Description	Availability
004	0.1µm	Nickel under Plate, Gold on Nose Tin on Remainder	Standard
006	0.4µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order
008	0.8µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order



Certification: UL File #E90723

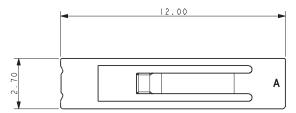


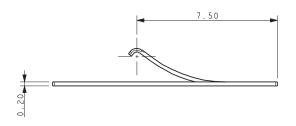
Low Profile Single Contact

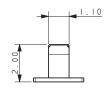


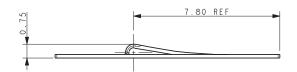


70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.00MM



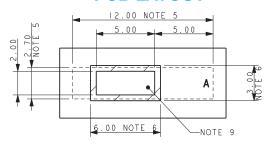






FULLY DEFLECTED CONTACT

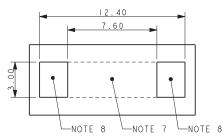
SUGGESTED MATING PCB LAYOUT

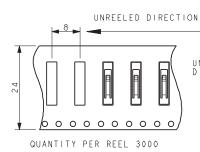


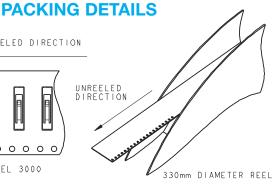
NOTES:

- 1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
- 2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
- 3. MATERIAL: COPPER ALLOY 0.2MM THICK.
- 4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
- 5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
- AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
- 7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
- 8. SMT PADS PLATED TIN.
- 9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT



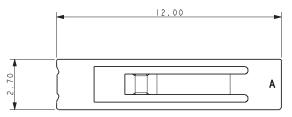


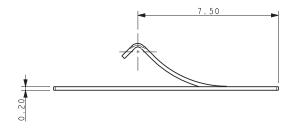


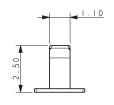


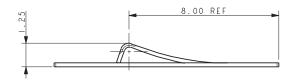


70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.50MM



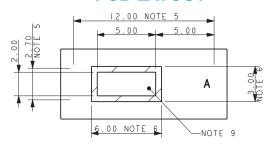






FULLY DEFLECTED CONTACT

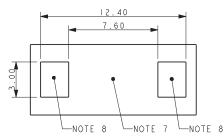
SUGGESTED MATING PCB LAYOUT

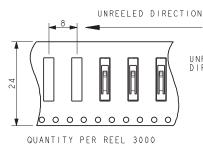


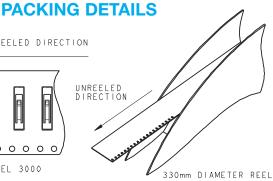
NOTES:

- 1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
- 2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
- 3. MATERIAL: COPPER ALLOY 0.2MM THICK.
- 4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
- 5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
- AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
- 7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
- 8. SMT PADS PLATED TIN.
- 9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT









Dual Row Stacker: BTB

00-9158





The MOBO® series 9158 is a one-piece connector used to connect two PCBs within mobile phones, pagers, PDAs, security, handheld scanners, etc. in a cost-effective manner

A standard range is available with 16, 20, 24 and 28 contacts to suit stack heights of 1.90mm to 3.30mm. Other contact variants are also available up to 5.10mm, in custom housings. The SOLO STACKER can allow a spacing tolerance of up to ± 0.30 mm and still provide reliable connections between the PCBs, even if they are not parallel.

SOLO STACKER is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

Whatever your requirements this SOLO STACKER can also be customized to suit your applications.

APPLICATIONS

- Mobile Phones
- PDA
- Medical
- PMR
- Industrial
- Security
- Handheld Scanner

FEATURES AND BENEFITS

- · Reduced assembly time.
- Only one part to purchase and stock.
- Due to the unique contact design, the mating device does not have to be parallel.
- Extremely robust when subjected to shock and vibration.
- · Cost effective.
- Helps reduce tolerance accumulation within system.

ELECTRICAL

Current Rating: 1 Amp/Contact

Voltage Rating: 125V
 Based on placement distance

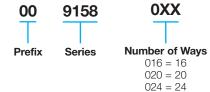
ENVIRONMENTAL

Operating Temperature:
 -55°C to +125°C

MECHANICAL

- Insulator Material: High Temperature Plastic: UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 50 Cycles

HOW TO ORDER



028 = 28

OXX

Stack Heigh

Stack Height020 = 1.9mm to 2.1mm
025 = 2.1mm to 2.7mm
030 = 2.8mm to 3.3mm

06
Plating Variation
Selective Gold 0.25µr

Plating Variation

06 = Selective Gold 0.25µm
Gold Plated Contact
Nose Pure Tin Tail



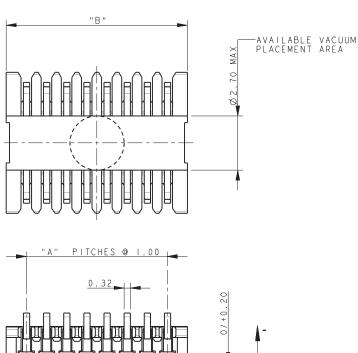
1 = With PCB Location Bosses 2 = Without PCB Location Bosses



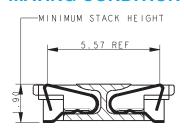


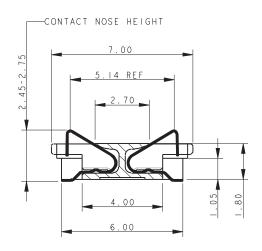


2.0MM DUAL ROW STACKER WITHOUT BOSSES



MATING CONDITION

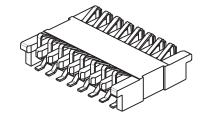




NOTES:

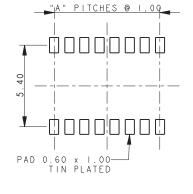
-ALL TAILS WITHIN 0.15 MAX COPLANARITY TOLERANCE

- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 1.90MM TO 2.10MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.

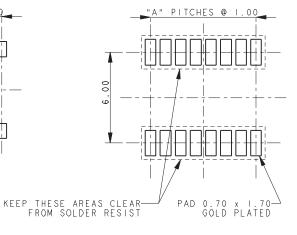


No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT



MATING PCB FOOTPRINT

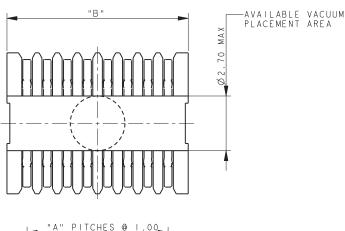


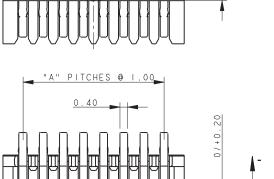


00-9158

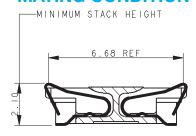


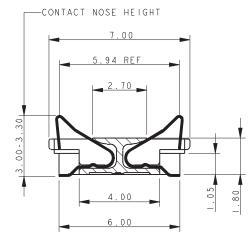
2.5MM DUAL ROW STACKER WITHOUT BOSSES





MATING CONDITION

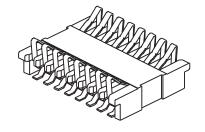




NOTES

-ALL TAILS WITHIN O.15 MAX COPLANARITY TOLERANCE

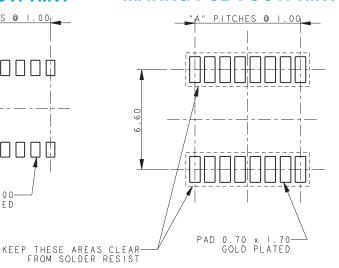
- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2.10MM TO 2.70MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT

PAD 0.60 x I.00 TIN PLATED



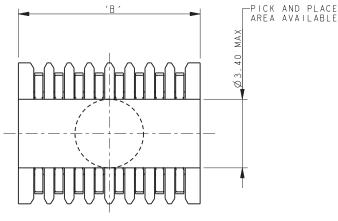
MATING PCB FOOTPRINT

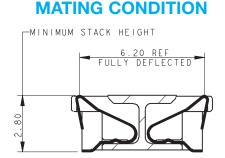


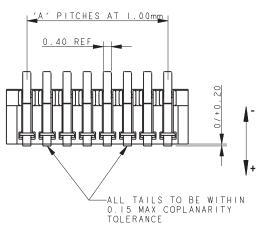
00-9158

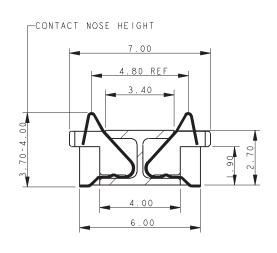


3.0MM DUAL ROW STACKER WITHOUT BOSSES



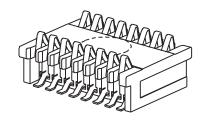






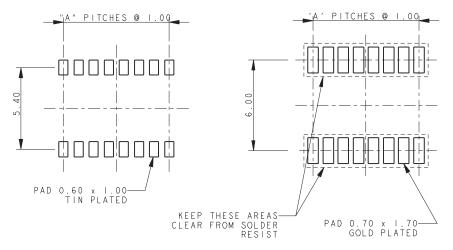
NOTES:

- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2.80MM TO 3.30MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT MATING PCB FOOTPRINT

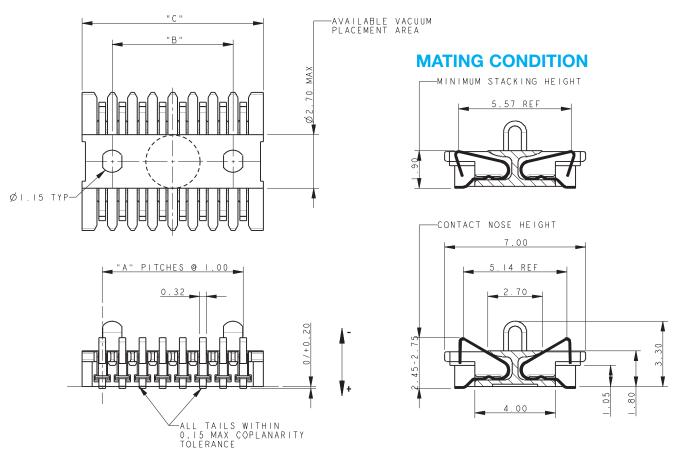




00-9158

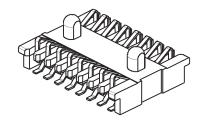


2.0MM DUAL ROW STACKER WITH BOSSES



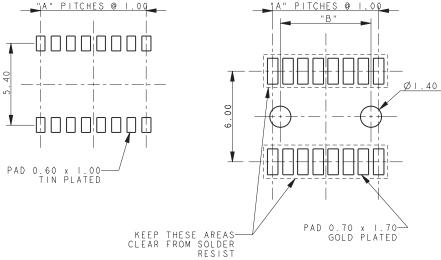


- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 1.90MM TO 2.10MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT "A" PLICHES @ 1 00 "A" PLICHES @ 1 00

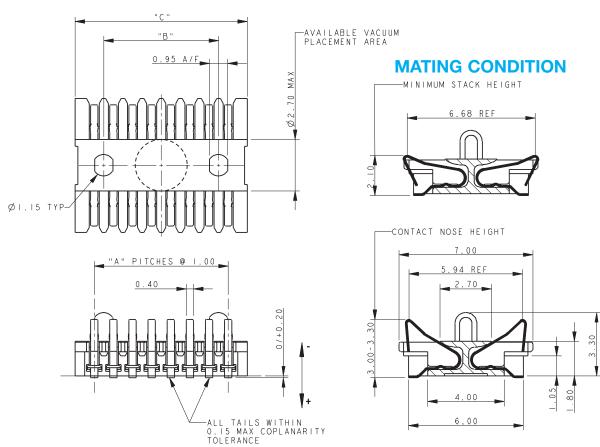






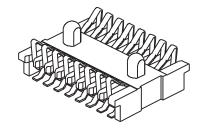


2.5MM DUAL ROW STACKER WITH BOSSES



NOTES

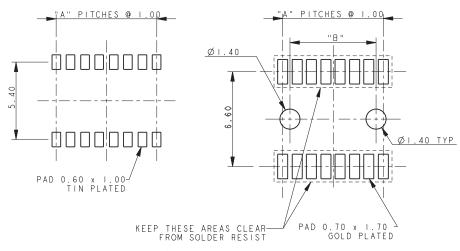
- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2.10MM TO 2.70MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT

MATING PCB FOOTPRINT

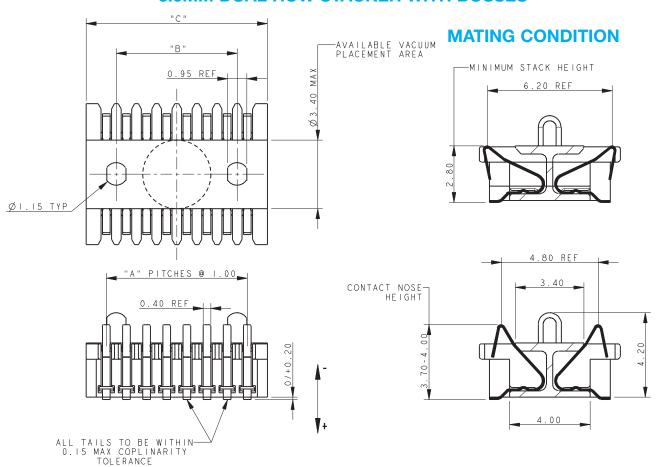




00-9158

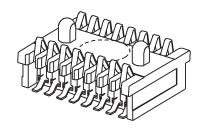


3.0MM DUAL ROW STACKER WITH BOSSES





- 1. LAYOUT FOR MULTI-WAY DUAL ROW STACKING CONNECTOR (ELCO SERIES 9158).
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPEC 201-01-073.
- 3. PART TO BE PACKED IN TAPE AND REEL. REFER TO PAGE 114 FOR DETAILS.
- 4. STACKER DESIGN TO ACCOMMODATE A PCB STACKING HEIGHT OF 2.80MM TO 3.30MM.
- 5. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 6. GENERAL TOLERANCE ±0.20 UNLESS OTHERWISE STATED.



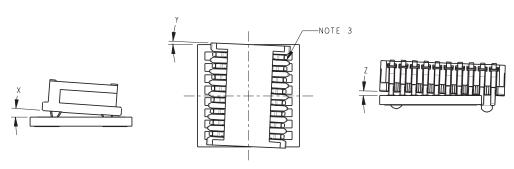
No of Positions	Part Number	Α	В
16	00-9158-016-020-062	7	9.00
20	00-9158-020-020-062	9	11.00
24	00-9158-024-020-062	11	13.00
28	00-9158-028-020-062	13	15.00

SMT PCB FOOTPRINT MATING PCB FOOTPRINT "A" PITCHES © 1.00 "B" "B" PAD 0.60 x 1.00 TIN PLATED KEEP THESE AREAS FREE FROM SOLDER RESIST PAD 0.70 x 1.70 GOLD PLATED





LIMITS TO PCB MISALIGNMENT



SIDE TILT "X"

TWIST "Y"

END TILT "Z"

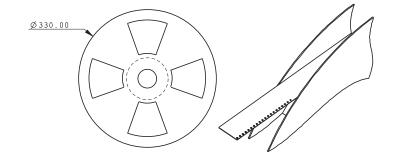
Code (See page 107)	Stack Height (Note 1)	Max Angle Degrees on Axis (Note 4)	Number of Ways			
			16	20	24	28
	1.9mm to 2.1mm	X	2.0	2.0	2.0	2.0
020		Υ	3.5	3.5	3.5	3.5
		Z	2.0	1.5	1.0	1.0
	2.1mm to 2.7mm	X	4.0	4.0	4.0	4.0
025		Υ	2.5	2.5	2.5	2.5
		Z	4.0	3.0	2.5	2.0
030	2.7mm to 3.3mm	X	4.0	4.0	4.0	4.0
		Υ	2.5	2.5	2.5	2.5
		Z	3.5	2.5	2.0	2.0

NOTES:

- 1. PCB STACK HEIGHT (REF PAGE 107). THIS IS THE CONTROLLING LIMIT ON THE GAP BETWEEN THE TWO PCB FACES AT ANY POINT WHEN IN THE FINAL MATED POSITION.
- 2. NO ALLOWANCE HAS BEEN MADE FOR SOLDER PASTE THICKNESS IN PCB STACKING HEIGHT.
- 3. IT IS CRITICAL THAT ON ASSEMBLY THE CONTACT NOSES DO NOT STRAY OUTSIDE OF THE MATING PAD AREA IN THE FINAL MATED POSITION.
- 4. THE MAXIMUM MISALIGNMENT ABOUT ANY ONE AXIS IN DEGREES, SEE NOTES 1 AND 3.

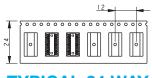
PACKING DETAILS 9158 SOLO STACKER CONNECTORS

No of Positions	Stack Height	Bosses	Part Number	Tape Width	Reel Qty.
16	2.0	Yes	00-9158-016-020-0X1	16	1250
16	2.0	No	00-9158-016-020-0X2	16	1500
16	2.5	Yes	00-9158-016-025-0X1	16	1250
16	2.5	No	00-9158-016-025-0X2	16	1250
16	3.0	Yes	00-9158-016-030-0X1	16	1100
16	3.0	No	00-9158-016-030-0X2	16	1100
20	2.0	Yes	00-9158-020-020-0X1	24	1250
20	2.0	No	00-9158-020-020-0X2	24	1500
20	2.5	Yes	00-9158-020-025-0X1	24	1250
20	2.5	No	00-9158-020-023-0X2	24	1250
20	3.0	Yes	00-9158-020-030-0X1	24	1100
20	3.0	No	00-9158-020-030-0X2	24	1100
24	2.0	Yes	00-9158-024-020-0X1	24	1250
24	2.0	No	00-9158-024-020-0X2	24	1500
24	2.5	Yes	00-9158-024-025-0X1	24	1250
24	2.5	No	00-9158-024-025-0X2	24	1250
24	3.0	Yes	00-9158-024-030-0X1	24	1100
24	3.0	No	00-9158-024-030-0X2	24	1100
28	2.0	Yes	00-9158-028-020-0X1	24	1250
28	2.0	No	00-9158-028-020-0X2	24	1500
28	2.5	Yes	00-9158-028-025-0X1	24	1250
28	2.5	No	00-9158-028-025-0X2	24	1250
28	3.0	Yes	00-9158-028-030-0X1	24	1100
28	3.0	No	00-9158-028-030-0X2	24	1100



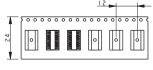


(SHOWN WITH BOSSES)

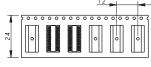


(SHOWN WITH BOSSES)

TYPICAL 24 WAY



TYPICAL 20 WAY (SHOWN WITHOUT BOSSES)

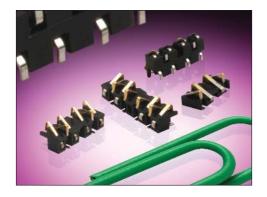


TYPICAL 28 WAY (SHOWN WITHOUT BOSSES)



00-9188





The SOLO series 9188 is a one-piece connector used to connect two PCBs in a cost effective manner.

A standard range is available with 4, 6, 8 staggered contacts to suit stack heights of 1.1mm to 2.1mm (see table below).

SOLO Stacker is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the two boards.

APPLICATIONS

- Phones
- Scanners
- Radios
- Medical Diagnostic
- Security Devices

FEATURES AND BENEFITS

Single piece connector – no mating half required to connect two boards together which means:

- Reduced assembly time
- Only one part to purchase and stock
- Due to the unique contact design, the mating device does not have to be parallel
- Helps reduce tolerance accumulation within system

ELECTRICAL

Current Rating: 1 Amp/Contact

Voltage Rating: 125V
 Based on placement distance

ENVIRONMENTAL

Operating Temperature:
 -55°C to +125°C

0XX

MECHANICAL

- Insulator Material: High Temperature Plastic: UL94 HB
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 50 Cycles

HOW TO ORDER



 Code
 Height
 No. of Ways

 004 = 4
 006 = 6
 012
 1.1mm to 1.3mm
 4 only

 020
 1.9mm to 2.1mm
 4, 6, & 8



Tin Tail

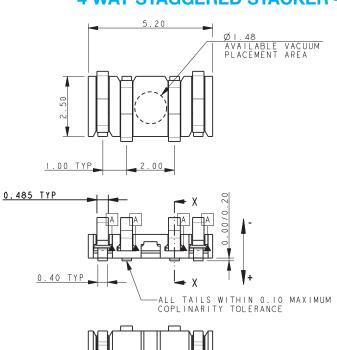
Contact Nose Pure



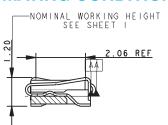
00-9188



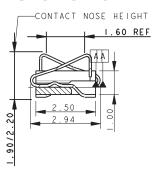
4 WAY STAGGERED STACKER - 1.2MM HEIGHT



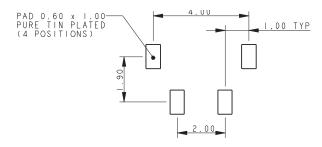
MATING CONDITION



SECTION ON X-X



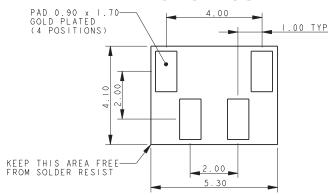
SMT PCB FOOTPRINT

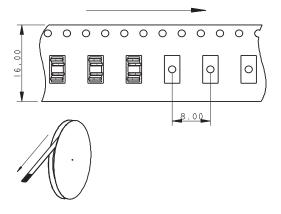


NOTES:

- 1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
- 3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
- 4. CONTACT MATERIAL: COPPER ALLOY.
- CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
 TO 4.0µM PURE TIN ON TAILS.
- 6. PACKING 2000 PIECES ON A 330MM REEL.

MATING PCB FOOTPRINT



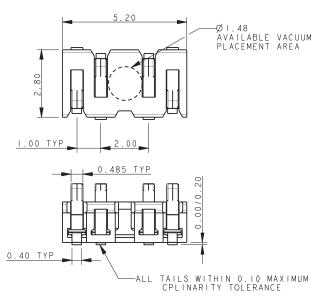


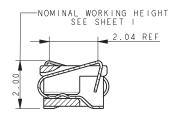


00-9188



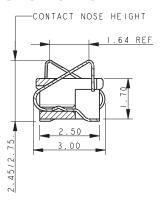
4 WAY STAGGERED STACKER - 2.0MM HEIGHT

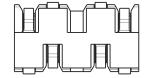




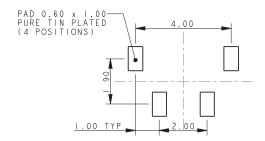
MATING CONDITION

SECTION ON X-X





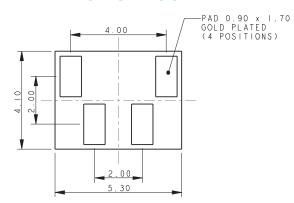
SMT PCB FOOTPRINT

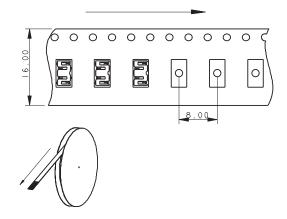


NOTES:

- 1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
- 3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
- 4. CONTACT MATERIAL: COPPER ALLOY.
- CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
 TO 4.0µM PURE TIN ON TAILS.
- 6. PACKING 2000 PIECES ON A 330MM REEL.

MATING PCB FOOTPRINT



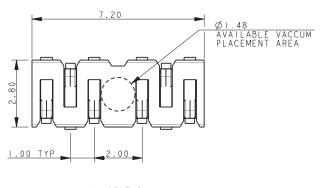


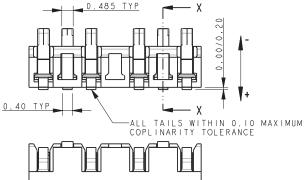


00-9188



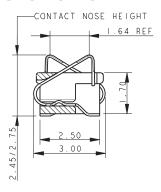
6 WAY STAGGERED STACKER - 2.0MM HEIGHT



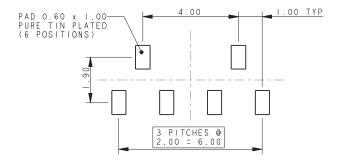


MATING CONDITION NOMINAL WORKING HEIGHT SEE SHEET I 2.04 REF

SECTION ON X-X



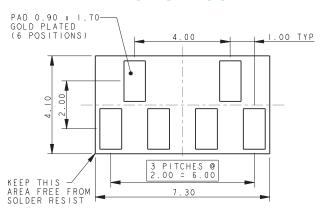
SMT PCB FOOTPRINT

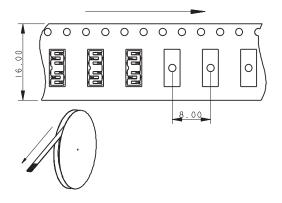


NOTES:

- 1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
- 3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
- 4. CONTACT MATERIAL: COPPER ALLOY.
- CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE.
 TO 4.0µM PURE TIN ON TAILS.
- 6. PACKING 2000 PIECES ON A 330MM REEL.

MATING PCB FOOTPRINT

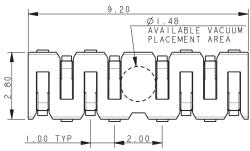


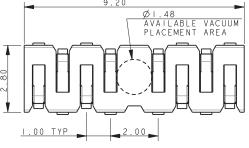


00-9188



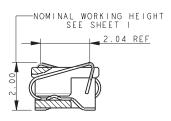
8 WAY STAGGERED STACKER - 2.0MM HEIGHT



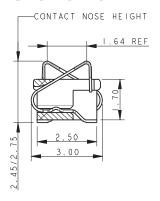


0.485 TYP 0.40 TYP -ALL TAILS WITHIN 0.10 MAXIMUM COPLINARITY TOLERANCE

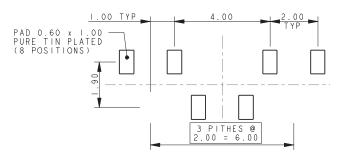
MATING CONDITION



SECTION ON X-X



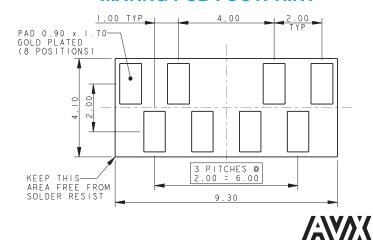
SMT PCB FOOTPRINT

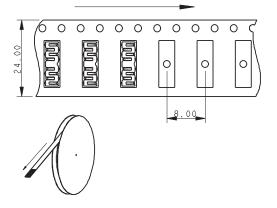


NOTES:

- 1. GENERAL TOLERANCE ±0.20 UNLESS SPECIFIED.
- 2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-121.
- 3. INSULATOR MATERIAL: HIGH TEMPERATURE PLASTIC UL94 HB. COLOR BLACK.
- 4. CONTACT MATERIAL: COPPER ALLOY.
- 5. CONTACT PLATING: 1.0µM NICKEL UNDERPLATED. SELECTIVE 0.25µM GOLD ON NOSE. 2.0 TO 4.0µM PURE TIN ON TAILS.
- 6. PACKING 2000 PIECES ON A 330MM REEL.

MATING PCB FOOTPRINT

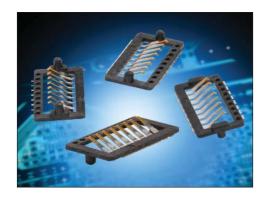




Ultra Low Profile Stacker: BTB

00-9258





The SOLO series 9258 is a one-piece connector used to connect two PCBs in a cost effective manner.

This connector is a 1.0mm pitch available in an 8 position with stack heights of 0.40mm and 0.80mm. It is available with or without location bosses.

This connector is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

APPLICATIONS

- Mobile phones
- Handheld scanners
- Portable medical devices
- Display interface

FEATURES AND BENEFITS

Single piece connector – no mating half connector required to connect two boards together which means:

- Reduced assembly time
- Only one part to purchase and stock
- Due to the unique contact design, the mating device does not have to be parallel
- Extremely robust when it comes to shock and vibration

ELECTRICAL

Current Rating: 1 Amp/Contact

Voltage Rating: 125V
 Based on placement distance

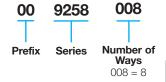
ENVIRONMENTAL

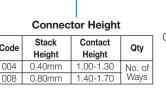
Operating Temperature:
 -55°C to +125°C

MECHANICAL

- Insulator Material: High Temperature Plastic: UL94 V-0
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 50 Cycles

HOW TO ORDER





00X



Plating Variation

06 = Selective Gold

0.25µm Gold Plated

Contact Nose Pure

Tin Tail



1 = With PCB Location Bosses (top side)

2 = Without PCB Location Bosses

3 = With SMT PCB Location Bosses (bottom side)

4 = With SMT and Mating PCB Location Bosses (top and bottom side)

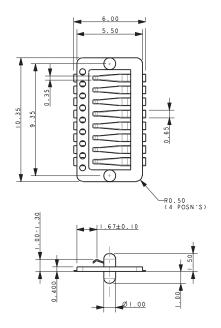




Ultra Low Profile Stacker: BTB

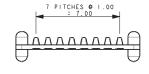


0.4MM ULTRA LOW PROFILE STACKER



NOTES:

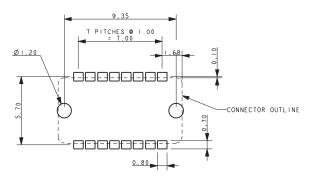
- 1. 8 WAY ULTRA LOW PROFILE STACKER IN 0.8MM STACK HEIGHT.
- INSULATOR MATERIAL: NYLON 46 HF5040, 40% GLASS FILLED UL94 V-0.
 COLOR BLACK.
- 3. CONTACT MATERIAL; 0.10MM THICK BeCu.
- 4. CONTACT PLATING: NICKEL UNDERPLATE, SELECTIVE GOLD PLATED CONTACT NOSES PURE TIN PLATED CONTACT SMT TAILS.
- 5. PARTS TO BE PACKED IN TAPE AND REEL, QTY: 1200.
- 6. ALL DIMENSIONS FOR REFERENCE UNLESS TOLERANCED.
- 7. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-115.





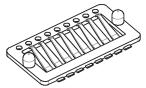
PROPOSED SMT PCB LAYOUT

ALL PADS PURE TIN PLATE



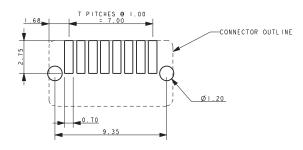
WITH MATING PCB LOCATION BOSSES

(TOP SIDE)



PROPOSED MATING PCB LAYOUT

ALL PADS GOLD PLATE



WITHOUT PCB LOCATION BOSSES

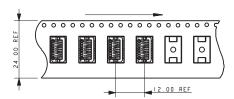


WITH SMT PCB LOCATION BOSSES

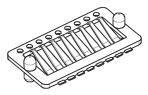
(BOTTOM SIDE)



PACKING TAPE DETAILS



WITH PCB AND SMT LOCATION BOSSES



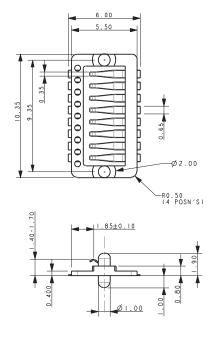


Ultra Low Profile Stacker: BTB

00-9258

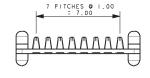


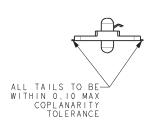
0.8MM ULTRA LOW PROFILE STACKER



NOTES:

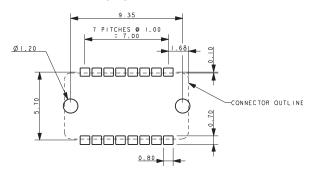
- 1. 8 WAY ULTRA LOW PROFILE STACKER IN 0.4MM STACK HEIGHT.
- INSULATOR MATERIAL: NYLON 46 HF5040, 40% GLASS FILLED UL94 V-0.
 COLOR BLACK.
- 3. CONTACT MATERIAL; 0.10MM THICK BeCu.
- 4. CONTACT PLATING: NICKEL UNDERPLATE, SELECTIVE GOLD PLATED CONTACT NOSES PURE TIN PLATED CONTACT SMT TAILS.
- 5. PARTS TO BE PACKED IN TAPE AND REEL, QTY: 1400.
- 6. ALL DIMENSIONS FOR REFERENCE UNLESS TOLERANCED.
- 7. FOR FURTHER INFORMATION REFER TO SPECIFICATION 201-01-115.





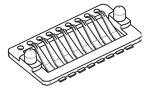
PROPOSED SMT PCB LAYOUT

ALL PADS PURE TIN PLATE



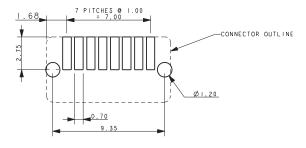
WITH MATING PCB LOCATION BOSSES

(TOP SIDE)



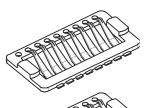
PROPOSED MATING PCB LAYOUT

ALL PADS GOLD PLATE

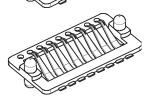


WITHOUT PCB LOCATION BOSSES

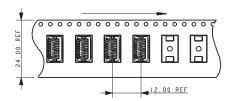
WITH SMT PCB LOCATION BOSSES (BOTTOM SIDE)



WITH PCB AND SMT LOCATION BOSSES



PACKING TAPE DETAILS





70-9150





Single Pogo Pin contacts provide high cycle life in industrial and medical applications where reliability and robustness is critical. Pogo Pins provide 10,000 mating cycles and are ideal in pluggable module applications where the end customer has to handle a product daily. Pogo Pins are designed to mate with gold plated PCB pads or flat contacts in docking/cradle applications to function as the charging, data transfer or programming interface to a portable device.

The standard range single contacts from AVX provides the maximum flexibility in pin count, placement location and broad compressed stacking heights ranging from 2.0mm up to 5.5mm. The contacts are provided in standard tape and reel packaging for automatic in-line SMT placement. A disposable plastic cap facilitates vacuum pickup and then is removed after reflow soldering prior to product mating. Contacts are gold plated and incorporate high force stainless steel springs for durability and signal integrity.

APPLICATIONS

- Base/Docking stations for portable electronic devices to recharge batteries or download data
- Testing and programming of electronic modules
- Interface to disposable medical or measurement components

FEATURES AND BENEFITS

- Contacts range from 2.0mm to 5.5mm providing off-the-shelf availability for almost any application
- Each contact height provides the maximum working range and compressed height tolerance possible
- Gold plated contacts provide high reliability and signal integrity over 10,000 cycles
- Removable pick-up cap facilitates automatic placement for SMT reflow

ELECTRICAL

· Current Rating: 1 Amp

Voltage Rating:

Based on placement distance

ENVIRONMENTAL

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

MECHANICAL

• Contact Material: Brass

• Contact Plating: Gold over Nickel

Spring Material: SUS304

• Durability: 10k Cycles

HOW TO ORDER



Contact Operating Range
020 = 1.90 to 2.30

020 = 1.90 to 2.30 025 = 2.40 to 2.80 030 = 2.90 to 3.40 040 = 3.90 to 4.50 050 = 4.90 to 5.50

Packing Option
0 = Tape & Reel

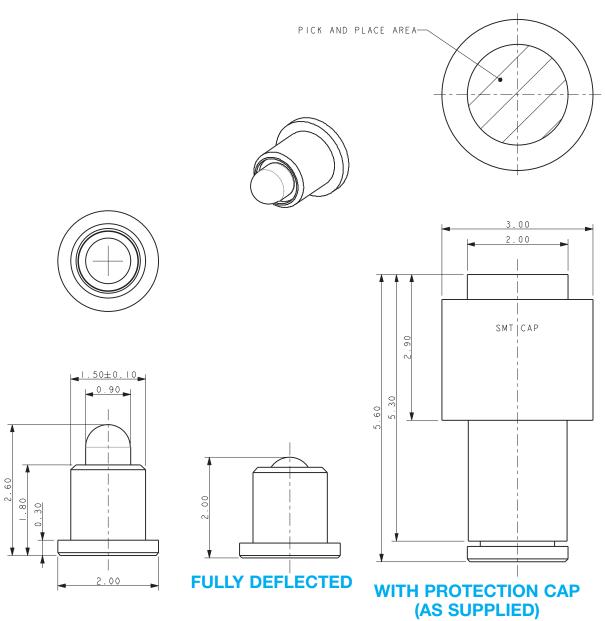
6
Plating Option
6 = Gold over Nickel



70-9150

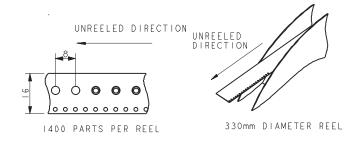


1.50MM DIAMETER 2MM HIGH POGO PIN



NOTES:

- 1. SERIES 9150 POGO PIN, WORKING HEIGHT 2MM TO 2.3MM.
- 2. MATERIAL: PIN AND SLEEVE, COPPER ALLOW PLATED GOLD OVER NICKEL. SPRING STAINLESS STEEL.
- 3. SUPPLIED WITH A PROTECTION CAP IN PA9T. SUITABLE FOR PICK AND PLACE AND RE-FLOW.
- 4. PACKING IN TAPE AND REEL, QUANTITY PER REEL 1400.
- 5. DURABILITY 10,000 OPERATIONS FOR OTHER PRODUCT DETAILS REFER TO SPECIFICATION 201-01-158.
- 6. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 7. PCB DETAILS ON PAGE 129.

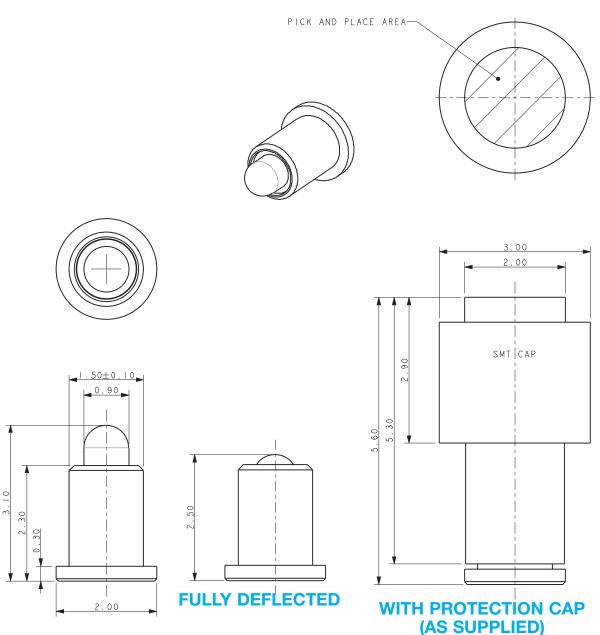




70-9150

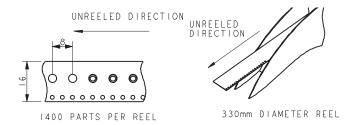


1.50MM DIAMETER 2.5MM HIGH POGO PIN



NOTES:

- 1. SERIES 9150 POGO PIN, WORKING HEIGHT 2.5MM TO 2.8MM.
- 2. MATERIAL: PIN AND SLEEVE, COPPER ALLOW PLATED GOLD OVER NICKEL. SPRING STAINLESS STEEL.
- 3. SUPPLIED WITH A PROTECTION CAP IN PA9T. SUITABLE FOR PICK AND PLACE AND RE-FLOW.
- 4. PACKING IN TAPE AND REEL, QUANTITY PER REEL 1400.
- 5. DURABILITY 10,000 OPERATIONS FOR OTHER PRODUCT DETAILS REFER TO SPECIFICATION 201-01-158.
- 6. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 7. PCB DETAILS ON PAGE 129.

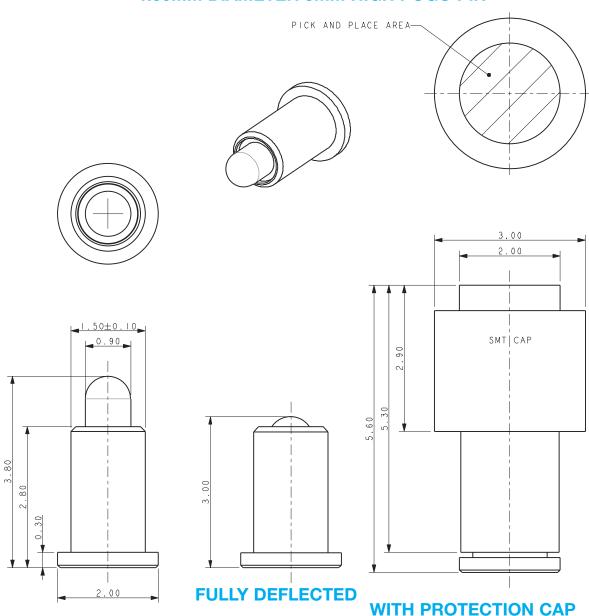




70-9150

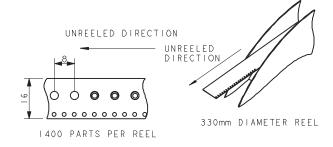


1.50MM DIAMETER 3MM HIGH POGO PIN



NOTES:

- 1. SERIES 9150 POGO PIN, WORKING HEIGHT 3MM TO 3.4MM.
- 2. MATERIAL: PIN AND SLEEVE, COPPER ALLOW PLATED GOLD OVER NICKEL. SPRING STAINLESS STEEL.
- 3. SUPPLIED WITH A PROTECTION CAP IN PA9T. SUITABLE FOR PICK AND PLACE AND RE-FLOW.
- 4. PACKING IN TAPE AND REEL, QUANTITY PER REEL 1400.
- 5. DURABILITY 10,000 OPERATIONS FOR OTHER PRODUCT DETAILS REFER TO SPECIFICATION 201-01-158.
- 6. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 7. PCB DETAILS ON PAGE 129.

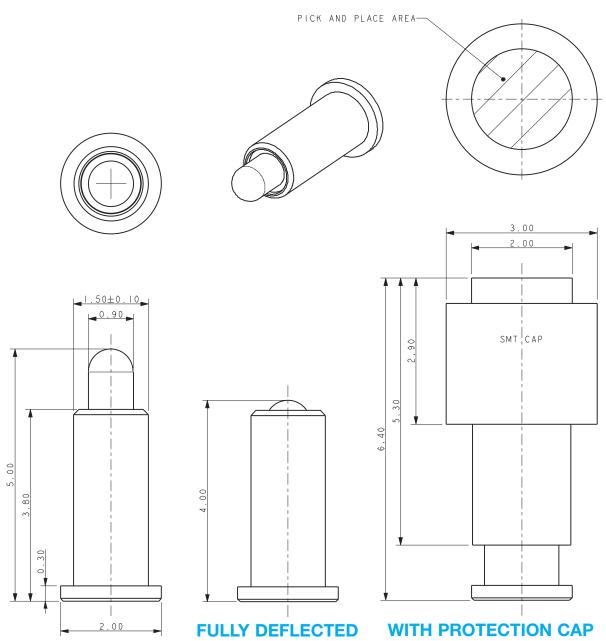




70-9150

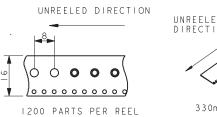


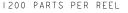
1.50MM DIAMETER 4MM HIGH POGO PIN



NOTES:

- 1. SERIES 9150 POGO PIN, WORKING HEIGHT 4MM TO 4.5MM.
- 2. MATERIAL: PIN AND SLEEVE, COPPER ALLOW PLATED GOLD OVER NICKEL. SPRING STAINLESS STEEL.
- 3. SUPPLIED WITH A PROTECTION CAP IN PA9T. SUITABLE FOR PICK AND PLACE AND RE-FLOW.
- 4. PACKING IN TAPE AND REEL, QUANTITY PER REEL 1400.
- 5. DURABILITY 10,000 OPERATIONS FOR OTHER PRODUCT DETAILS REFER TO SPECIFICATION 201-01-158.
- 6. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 7. PCB DETAILS ON PAGE 129.







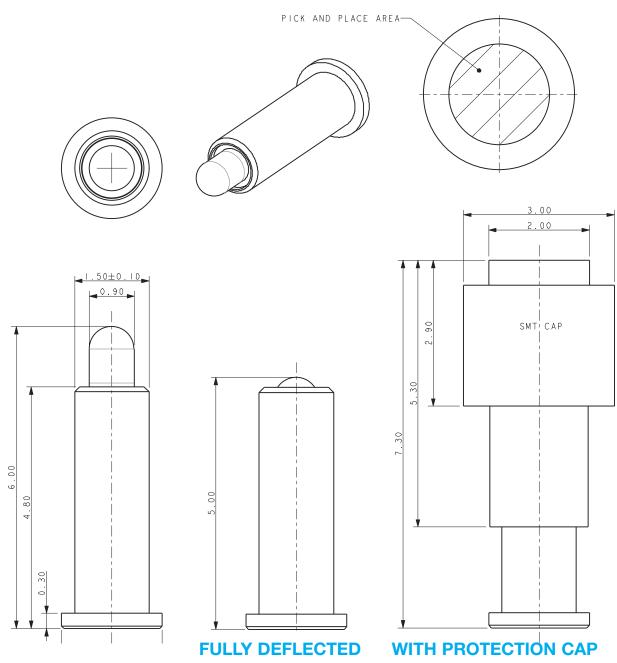
330mm DIAMETER REEL





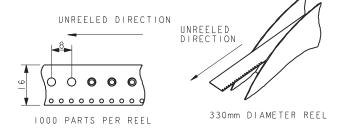


1.50MM DIAMETER 5MM HIGH POGO PIN



NOTES:

- 1. SERIES 9150 POGO PIN, WORKING HEIGHT 5MM TO 5.5MM.
- 2. MATERIAL: PIN AND SLEEVE, COPPER ALLOW PLATED GOLD OVER NICKEL. SPRING STAINLESS STEEL.
- 3. SUPPLIED WITH A PROTECTION CAP IN PA9T. SUITABLE FOR PICK AND PLACE AND RE-FLOW.
- 4. PACKING IN TAPE AND REEL, QUANTITY PER REEL 1400.
- 5. DURABILITY 10,000 OPERATIONS FOR OTHER PRODUCT DETAILS REFER TO SPECIFICATION 201-01-158.
- 6. GENERAL TOLERANCE ±0.20 UNLESS STATED.
- 7. PCB DETAILS ON PAGE 129.

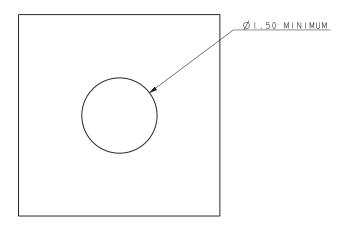




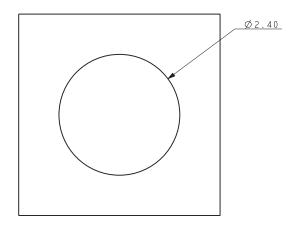
70-9150



PCB DETAILS



SUGGESTED MATING PCB PAD TO BE PLATED GOLD OVER NICKEL



SUGGESTED MOUNTING PCB

AMERICAS

AVX Greenville, SC Tel: 864-967-2150

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 Tel: 949-859-9509

AVX Canada Tel: 905-238-3151

AVX South America Tel: +55-11-4688-1960

EUROPE

AVX Limited, England Tel: +44-1276-697000

AVX S.A.S., France Tel: +33-1-69-18-46-00

AVX GmbH, Germany Tel: +49-0811-95949-0

AVX SRL, Italy Tel: +39-02-614-571

AVX Czech Republic Tel: +420-57-57-57-521

AVX/ELCO UK Tel: +44-1638-675000

ELCO Europe GmbH Tel: +49-2741-299-0

AVX S.A., Spain Tel: +34-91-63-97-197

AVX Benelux Tel: +31-187-489-337

ASIA-PACIFIC

AVX/Kyocera (S) Pte Ltd., **Singapore**

Tel: +65-6286-7555

AVX/Kyocera, Asia, Ltd., **Hong Kong**

Tel: +852-2363-3303

AVX/Kyocera Yuhan Hoesa, **South Korea** Tel: +82-2785-6504

AVX/Kyocera HK Ltd., **Taiwan**

Tel: +886-2-2656-0258

AVX/Kyocera (M) Sdn Bhd, Malaysia

Tel: +60-4228-1190

AVX/Kyocera International Trading Co. Ltd., Shanghai

Tel: +86-21-3255 1933

AVX/Kyocera Asia Ltd., Shenzen

Tel: +86-755-3336-0615

AVX/Kyocera International Trading Co. Ltd., **Beijing**

Tel: +86-10-6588-3528

AVX/Kyocera India **Liaison Office**

Tel: +91-80-6450-0715

ASIA-KED

(KYOCERA Electronic Devices)

KED Hong Kong Ltd. Tel: +852-2305-1080/1223

KED Hong Kong Ltd. Shenzen

Tel: +86-755-3398-9600

KED Company Ltd. Shanghai

Tel: +86-21-3255-1833

KED Hong Kong Ltd. Beijing

Tel: +86-10-5869-4655

KED Taiwan Ltd. Tel: +886-2-2950-0268

KED Korea Yuhan Hoesa, South Korea

Tel: +82-2-783-3604/6126

KED (S) Pte Ltd. **Singapore** Tel: +65-6509-0328

Kyocera Corporation Japan

Tel: +81-75-604-3449

Contact:

