

# AVX Lighting Connectors

RoHS Compliant This product is RoHS compliant.



## BOARD TO BOARD CONNECTORS

### 1 Piece Connectors

- Features:**
- Used for daisy chaining multiple LED boards together
  - Simple and cost effective
  - Double ended card edge for 2.0mm pitch
  - Provides multiple connections to tin plated fingers at the end of each PCB

- Specifications:**
- Voltage rating: 250V
  - Operating Temperature: -55°C to +125°C
  - Current Rating: 3 Amps



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For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	No. of Pos.	Amps	Contact Plating	Price Each			
						1	10	50	100
581-00915900201106	009159002001106	A	2	3	Pure Tin	.75	.63	.57	.52
581-00915900301106	009159003001106	A	3	3	Pure Tin	.95	.80	.72	.66
581-00915900401106	009159004001106	A	4	3	Pure Tin	1.16	.98	.86	.77
581-00915900501106	009159005001106	A	5	3	Pure Tin	1.40	1.16	.99	.90

### 2 Piece Connectors

- Features:**
- SMT terminated to 1 side of the PCB allowing both PCBs to be completely butt mated with no gap
  - Provides consistent LED spacing across multiple PCB's
  - Compact 2 piece connector system is on 3.0mm pitch, 3.0mm height and 5.5mm overall mated length

- Specifications:**
- Voltage rating: 125V
  - Operating Temperature: -55°C to +85°C
  - Current Rating: 5 Amps



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MOUSER STOCK NO.	AVX Part No.	Fig.	No. of Pos.	Amps	Contact Plating	Price Each			
						1	10	50	100
<b>Plugs</b>									
581-109159002101116	109159002101116	B	2	5	Gold	.69	.58	.52	.45
581-109159003101116	109159003101116	B	3	5	Gold	.78	.66	.59	.51
581-109159004101116	109159004101116	B	4	5	Gold	.88	.74	.66	.57
581-109159005101116	109159005101116	B	5	5	Gold	.98	.82	.73	.65
581-109159006101116	109159006101116	B	6	5	Gold	1.13	.96	.85	.72
<b>Sockets</b>									
581-209159002101116	209159002101116	C	2	5	Gold	.91	.72	.66	.59
581-209159003101116	209159003101116	C	3	5	Gold	1.11	.94	.84	.73
581-209159004101116	209159004101116	C	4	5	Gold	1.29	1.10	.98	.86
581-209159005101116	209159005101116	C	5	5	Gold	1.49	1.25	1.16	1.00
581-209159006101116	209159006101116	C	6	5	Gold	1.65	1.38	1.27	1.13

## WIRE TO BOARD CONNECTORS

AVX introduced the first IDC specifically for terminating discrete wires between LED boards.

- Features:**
- Wires are individually pressed into the connector to provide a simple and cost effective termination
  - Single or Dual IDC contact (based on AWG) provide a gas tight connection
  - Insulators are end to end stackable for higher pin counts
  - Eliminates the need for hand soldering
  - RoHS compliant per AVX documentation



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- Specifications:**
- Voltage rating: 9175 Series: 125V, 9176 Series: 250V, 9177 Series: 600V
  - Operating Temperature: -40°C to 105°C

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	No. of Ways	Amps	Wire Gauge (AWG)	Dimensions: mm			Price Each			
						A	B	C	1	10	50	100
<b>9175 Series</b>												
581-009175002001006	009175002001006	D	2	1	26-28	5	2.5	3.45	.71	.68	.65	.59
581-009175003001006	009175003001006	D	3	1	26-28	7.5	2.5	3.45	.79	.76	.73	.69
<b>9176 Series</b>												
581-009176002011006	009176002011006	E	2	10	20	8	5	5.1	.85	.82	.79	.71
581-009176002022006	009176002022006	E	2	10	22	8	5	5.1	.85	.82	.79	.71
581-009176003011006	009176003011006	E	3	10	20	12	5	5.1	.92	.88	.85	.76
581-009176003022006	009176003022006	E	3	10	22	12	5	5.1	.92	.88	.85	.76
<b>9177 Series</b>												
581-009177001001006	009177001001006	F	1	15	14	9	9	9.1	.91	.80	.76	.68
581-009177001012006	009177001012006	F	1	15	16	9	9	9.1	.91	.80	.76	.68
581-009177001022006	009177001022006	F	1	15	18	9	9	9.1	.91	.80	.76	.68
581-009177001033006	009177001033006	F	1	15	20	9	9	9.1	.91	.80	.76	.68
581-009177002001006	009177002001006	F	2	15	14	18	9	9.1	1.29	1.13	1.07	.96
581-009177002012006	009177002012006	F	2	15	16	18	9	9.1	1.29	1.13	1.07	.96
581-009177002022006	009177002022006	F	2	15	18	18	9	9.1	1.29	1.13	1.07	.96
581-009177002033006	009177002033006	F	2	15	20	18	9	9.1	1.29	1.13	1.07	.96
581-009177003001006	009177003001006	F	3	15	14	27	9	9.1	1.66	1.45	1.38	1.23
581-009177003012006	009177003012006	F	3	15	16	27	9	9.1	1.66	1.45	1.38	1.23
581-009177003022006	009177003022006	F	3	15	18	27	9	9.1	1.66	1.45	1.38	1.23
581-009177003033006	009177003033006	F	3	15	20	27	9	9.1	1.66	1.45	1.38	1.23

## TOOLS



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For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	Description	Price Each			
				1	10	50	100
<b>9175 Series Hand Insertion Tool</b>							
581-069175700401000	069175700401000	-	Plastic, Max. Insulation Dia. 1.00	3.76	3.38	3.25	3.01
<b>9176 Series Hand Insertion Tool</b>							
581-067000773001000	067000773001000	G	Universal Handle	24.32	23.13	22.57	22.04
581-069176701601000	069176701601000	H	Metal/Plastic, Max. Insulation Dia. 2.10	6.74	6.41	6.25	6.10
581-069176701602000	069176701602000	H	Metal/Plastic, Max. Insulation Dia. 1.60	6.74	6.41	6.25	6.10
<b>9177 Series Hand Insertion Tool</b>							
581-069177701601001	069177701601001	I	1 way, Max Insulation Dia. 4.25	.74	.65	.62	.55
581-069177701602001	069177701602001	I	1 way, Max Insulation Dia. 3.50	.74	.65	.62	.55
581-069177701603001	069177701603001	I	1 way, Max Insulation Dia. 2.75	.74	.65	.62	.55
581-069177701601002	069177701601002	J	2 way, Max Insulation Dia. 4.25	1.03	.90	.86	.77
581-069177701602002	069177701602002	J	2 way, Max Insulation Dia. 3.50	1.03	.90	.86	.77
581-069177701603002	069177701603002	J	2 way, Max Insulation Dia. 2.75	1.03	.90	.86	.77
581-069177701601003	069177701601003	K	3 way, Max Insulation Dia. 4.25	1.29	1.13	1.07	.96
581-069177701602003	069177701602003	K	3 way, Max Insulation Dia. 3.50	1.29	1.13	1.07	.96
581-069177701603003	069177701603003	K	3 way, Max Insulation Dia. 2.75	1.29	1.13	1.07	.96

