

AVX Lighting Connectors



This product is RoHS compliant.

WIRE-TO-WIRE; POKE HOME THRU-WIRE CONNECTORS AND JUNCTION BOX

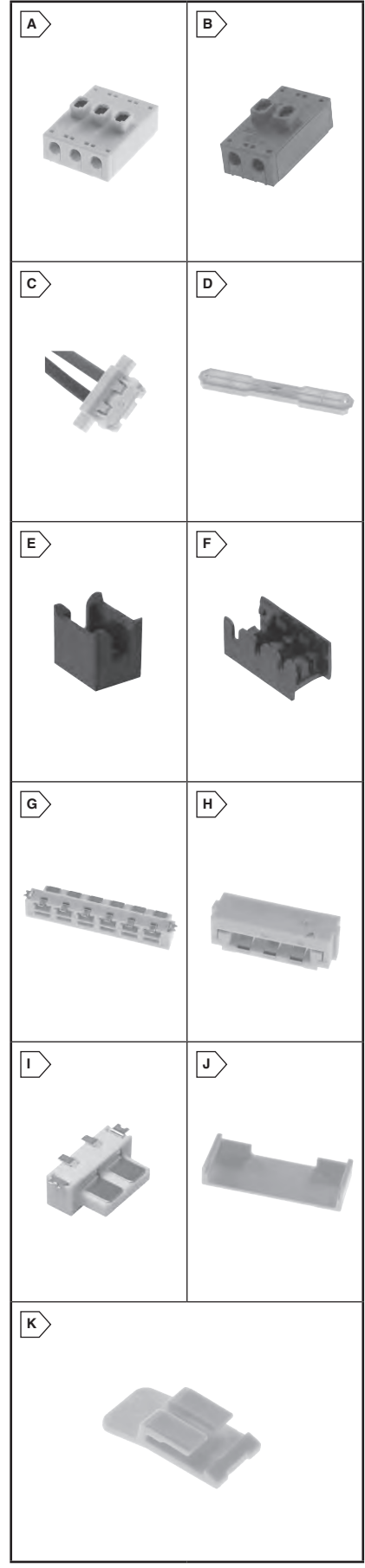
Features:

- Robust design for harsh environments; -40°C to +125°C
- 8AMP current rating
- High spring force BeCu contact system provides high reliability
- Accepts any wire between 18AWG to 26AWG; solid or stranded
- Miniaturized size; 4.0mm pitch



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	Number of Positions	Color	Description	Price Each			
						1	10	50	100
581-009286002021106	009286002021106	A	2-way	White	Thru-Wire	2.45	2.00	1.86	.98
581-009286003021106	009286003021106	A	3-way	White	Thru-Wire	2.62	2.17	2.11	1.15
581-009286004121506	009286004121506	B	4-way	Red	Junction Box	2.45	2.00	1.86	.98



LED LIGHTING /LED BACKLIGHT CONNECTOR

The 9608 Series LED lighting connector and 9609 Series LED backlight connectors feature the lowest profile in the industry at 1.4mm, which minimizes the spacing between PCBs and allows for even light distribution.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	Type	Current Rating	Number of Positions	Price Each			
						1	10	100	250
9608 Series									
581-149608102000868	149608102000868+	C	Board to Board	1A to 3A	2	1.55	1.27	1.02	.89
581-209608102100829	209608102100829+	C	Board to Board	1A to 3A	2	1.03	.81	.60	.54
581-979608302009829	979608302009829+	C	Wire to Board	1A to 3A	2	3.37	2.72	2.07	1.78
581-979608302010829	979608302010829+	C	Wire to Board	1A to 3A	1	4.33	3.89	2.94	2.59
9609 Series									
581-109609001001808	109609001001808+	D	Board to Board	1A to 3A	1	.62	.45	.31	.28
581-249609001000808	249609001000808+	D	Board to Board	1A to 3A	1	.60	.58	.37	.29
581-979609001007808	979609001007808+	D	Wire to Board	1A to 3A	1	1.80	1.45	1.11	.95
581-979609001008808	979609001008808+	D	Wire to Board	1A to 3A	1	3.23	2.61	1.99	1.71

SSL - DISCRETE WIRE IDC CAPS

Features:

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

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	AVX Part No.	Fig.	Number of Ways	Description	Price Each			
					1	10	50	100
9176 Series								
581-609176001521000	609176001521000	E	1	Cap, glass filled nylon, black	.29	.24	.19	.18
581-609176001415000	609176001415000	E	1	Cap, glass filled nylon, black	.28	.23	.19	.12
581-609176001415100	609176001415100	E	1	Cap, glass filled nylon, white	.28	.23	.19	.17
581-709176001522006	709176001522006	E	1	IDC wire to board, contact plating, 22 gauge	.30	.26	.23	.20
581-709176001422006	709176001422006	E	1	IDC wire to board, contact plating, 22 gauge	.30	.26	.23	.20
581-709176001432006	709176001432006	E	1	IDC wire to board, contact plating, 24 gauge	.30	.26	.23	.20
581-609176002016000	609176002016000	E	2	Cap, thru wire, black	.56	.49	.44	.39
581-609176003016000	609176003016000	E	3	Cap, thru wire, black	.71	.60	.55	.48
581-609176003021000	609176003021000	E	3	Cap, thru wire, black	.71	.60	.55	.48
581-609176003016099	609176003016099	F	3	Cap with stop, black	.71	.60	.55	.48
581-609176002016099	609176002016099	F	2	Cap with stop, black	.56	.49	.44	.39
581-609176002021099	609176002021099	F	2	Cap with stop, black	.56	.49	.44	.39
581-609176003021099	609176003021099	F	3	Cap with stop, black	.71	.60	.55	.48

SOLID STATE LIGHTING CONNECTORS

The 9159 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.

Wired Plugs

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.

MOUSER STOCK NO.	AVX Part No.	Fig.	Circuit Size	Dimensions: mm			Price Each				
				A	B	C	1	10	50	100	500
581-119159002101116	119159002101116	G	2	14.7	8	3	2.07	1.69	1.58	1.36	1.20
581-119159003101116	119159003101116	G	3	14.7	11	3	1.47	1.26	1.11	.98	.71
581-119159004101116	119159004101116	G	4	14.7	14	3	1.67	1.41	1.26	1.10	.81
581-119159005101116	119159005101116	G	5	14.7	17	3	1.87	1.59	1.36	1.23	.91
581-119159006101116	119159006101116	G	6	14.7	20	3	1.96	1.68	1.44	1.30	.95

Top Loading Sockets

The top loading socket allows complete PCB's to be replaced in the field without having to disassemble the entire strip 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.

MOUSER STOCK NO.	AVX Part No.	Fig.	Circuit Size	Dimensions: mm			Price Each				
				A	B	C	1	10	50	100	500
581-229159002101116	229159002101116	H	2	11.4	4.5	4.5	1.57	1.34	1.20	1.05	.78
581-229159003101116	229159003101116	H	3	14.4	4.5	4.5	1.87	1.59	1.36	1.23	.91
581-229159004101116	229159004101116	H	4	17.4	4.5	4.5	2.17	1.84	1.64	1.44	1.07
581-229159005101116	229159005101116	H	5	20.4	4.5	4.5	2.60	2.22	1.94	1.73	1.29
581-229159006101116	229159006101116	H	6	23.4	4.5	4.5	2.95	2.52	2.21	1.96	1.47

Shorting Socket

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.

581-589159002000006	589159002000006	I	2	8	4.2	--	1.37	1.17	1.05	.91	.68
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Covers for Plug

MOUSER STOCK NO.	AVX Part No.	Fig.	Circuit Size	Dimensions: mm			Price Each				
				A	B	C	1	10	50	100	500
581-609159330201000	609159330201000	J	2	8	6.5	3	.20	.17	.14	.12	.091
581-609159330301000	609159330301000	J	3	11	6.5	3	.20	.17	.14	.12	.091
581-609159330401000	609159330401000	J	4	14	6.5	3	.20	.17	.14	.12	.091
581-609159330501000	609159330501000	J	5	17	6.5	3	.20	.17	.14	.12	.091
581-609159330601000	609159330601000	J	6	20	6.5	3	.20	.17	.14	.12	.091

Latches for Plug

581-609159340201000	609159340201000	K	2,4,6	10	5	--	.35	.29	.24	.22	.16
581-609159340301000	609159340301000	K	3,5	10	8	--	.38	.31	.26	.24	.18