General Information





GENERAL DESCRIPTION

KYOCERA AVX's STRIPT™, insulation displacement naked contact technology provides cost effective, insulator-less, wire-toboard connection for discrete wire applications. Designed from the ground up to function just like a traditional

insulated connector, these UL certified contacts have been industry proven for many years. This 9177-500 series has been designed to support the larger wire gauges from a robustness and current rating perspective. The optional cap provides a positive strain relief even in the harshest conditions and acts as the termination tool for severe vibration applications.

APPLICATIONS

- · Industrial motor controls, drives & pumps
- Commercial building wiring and electrical systems
- Outdoor/Transportation lighting
- · Solar and alternative energy

ELECTRICAL

- · Current Rating: 15 Amps/Contact
- · Voltage Rating: 600 VAC

ENVIRONMENTAL

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

FEATURES AND BENEFITS

- · Proven "gas tight" cold welded wire termination
- · Redundant contact systems provides enhanced wire retention and high current carrying capabilities
- Cost effective STRIPT™ insulator-less contact system
- · Optional termination cap provides additional strain relief for severe environments

MECHANICAL

- · Cap Insulator Material: High Temperature Nylon: UL94V-0
- · Contact Material: Phosphor Bronze
- · Contact Plating: Pure tin over nickel
- · Durability: 3 termination cycles

HOW TO ORDER - CONTACT OPTIONS

001 70 9177 No. of Ways Prefix Series

Description

591 = 12AWG Stranded and Solid 501 = 14AWG Stranded and Solid 512 = 16AWG Stranded and Solid 522 = 18AWG Stranded and Solid

5XX

006 Plating 006 = Pure Tin all over



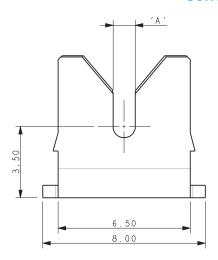
Certification: UL File #E90723

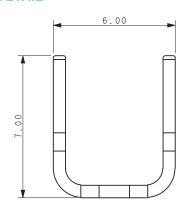
HOW TO ORDER - CAP OPTIONS - SEE PAGE 5

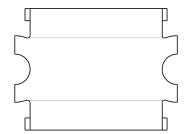
Contact Detail



CONTACT DETAIL



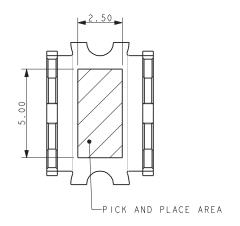




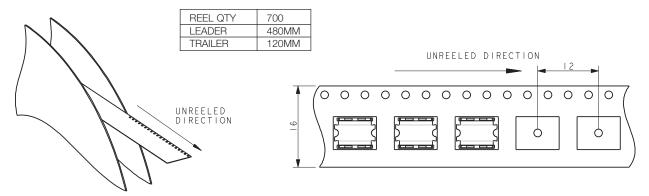
Code		Α
	Wire Gauge	
591	12AWG Stranded and Solid	1.50
501	14AWG Stranded and Solid	1.10
512	16AWG Stranded and Solid	0.82
522	18AWG Stranded and Solid	0.72

NOTES:

- 1. CONNECTOR FO IDC WIRE TO BOARD CONNECTION.
- CONTACT MATERIAL: PHOSPHORE BRONZE.
- CONTACT PLATING: PURE TIN.
- CONTACTS DESIGNED TO ACCEPT BETWEEN 12 AND 18 GAUGE STANDED WIRE, SEE TABLE.
- 5. ALL DIMENSIONS FOR REFERENCE UNLESS OTHERWISE STATED.
- 6. FOR FULL PRODUCT SPECIFICATIONS REFER TO AVX SPECIFICATION 201-01-208 AND APPLICATION NOTES 201-01-209.
- 7. SMT PCB LAYOUT, REFER TO PAGE 3.
- 8. PACKING IN TAPE AND REEL, QUANTITY PER REEL 700.
- 9. ASSEMBLY TOOLING ON PAGE 4.
- 10. UL REFERENCE E90723 (US AND CANADA).



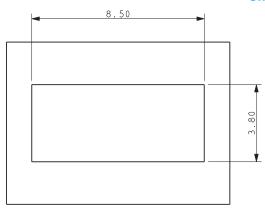
PACKING DETAILS

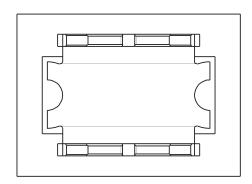




IDC Wire to Board Connector Single Contact

12-18 AWG IDC WIRE TO BOARD CONNECTOR **SINGLE CONTACT**





SUGGESTED PCB LAYOUT

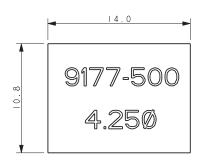
ORIENTATION OF CONTENT ON PAD

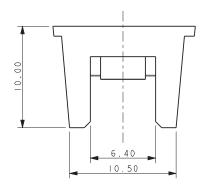
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO AVX SPEC 201-01-208 AND 201-01-209
- 2. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 3. ASSEMBLY TOOLING ON PAGE 4.

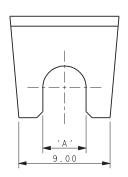
Assembly Tooling



ASSEMBLY TOOLING



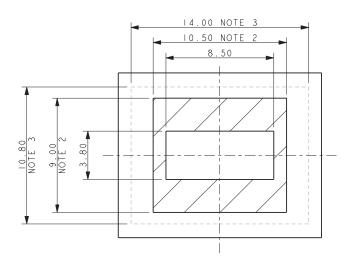




Wire Guage	Max Insulation (Dimensions 'A')	Tool Number Metal Tool for High Volume	Tool Numbere Plastic Tool for Small to Medium Volume
12-18 AWG	ø 4.25	06-9177-7020-01-001	06-9177-7022-01-001
12-18 AWG	ø 3.50	06-9177-7020-02-001	06-9177-7022-02-001
12-18 AWG	ø 2.75	06-9177-7020-03-001	06-9177-7022-03-001

NOTES:

- 1. ASSEMBLY TOOLING FOR CONTACTS 70-9177-001-5XX-006 ONLY.
- 2. MINIMUM AREA OF PCB TO BE KEPT CLEAR OF COMPONENTS. TRACKS PERMISSIBLE.
- 3. MAXIMUM COMPONENT HEIGHT 9.0MM IN THIS AREA.
- 4. REFER TO TABLE FOR CORRECT TOOL/WIRE COMBINATION.
- 5. REFER TO APPLICATION NOTE 201-01-209 FOR FURTHER INFORMATION.
- 6. DIMENSIONS FOR TOOL ARE REFERENCE DIMENSIONS.

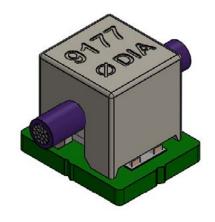




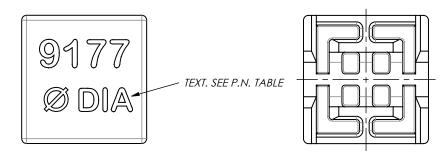


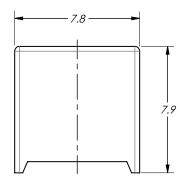


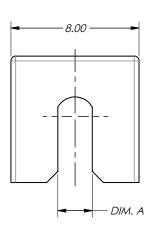
CAP DETAILS



PART NUMBER	DIM. A	TEXT	WIRE	COLOR
60-9177-001-531-100	2.75	a 2 1	12 AWG	WHITE (STANDARD)
60-9177-001-531-000	2.75	ø 3.1	12 AWG	BLACK (SPECIAL ORDER)
60-9177-001-526-100	2.25	a 2 6	14 AWG	WHITE (STANDARD)
60-9177-001-526-000	2.25	.25 ø 2.6	14 AWG	BLACK (SPECIAL ORDER)
60-9177-001-522-100	1.90	ø 2.2	16 AWG	WHITE (STANDARD)
60-9177-001-522-000	1.90	Ø Z.Z	10 AWG	BLACK (SPECIAL ORDER)
60-9177-001-519-100	1.65	a 1 0	18 SWG	WHITE (STANDARD)
60-9177-001-519-000	0 1.05 Ø 1.9	ø 1.9	10 3WG	BLACK (SPECIAL ORDER)







NOTES:

- 1. CAP FOR TERMINATING WIRES TO 9177-500 SERIES CONTACTS.
- 2. MATERIAL: HIGH TEMPERATURE NYLON; UL94V-0.
- 3. FOR FULL PRODUCT SPECIFICATION, REFER TO KAVX PRODUCT SPEC 201-01-208 AND APPLICATION NOTES 201-01-124.
- 4. PACKAGING TO BE BULK WITH 700 PARTS PER BAG.
- 5. FOR INSTALLATION DETAILS, SEE DRAWING 70-9177-001-5XX-006S.
- 6. PCB MUST BE CLEAR OF COMPONENTS ALLOWING CAP TO SEAT.