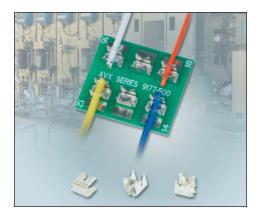
9177-500





AVX's STRIPT™, insulation displacement naked contact technology provides cost effective, insulator-less, wire-to-board 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.

APPLICATIONS

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

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

ELECTRICAL

• Current Rating: 15

• Voltage Rating: 600 VAC

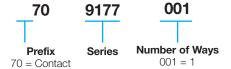
ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Phosphor Bronze
- Contact Plating: Pure tin over nickel
- Durability: 3 termination cycles

HOW TO ORDER



Wire Gauge Size
591 = 12AWG Stranded and Solid

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

5XX

Plating Option
006 = Pure Tin all over

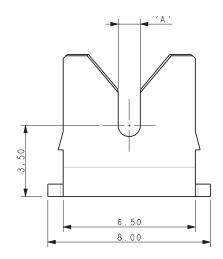


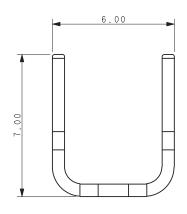
Certification: UL File #E90723

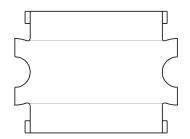
9177-500



CONTACT DETAILS



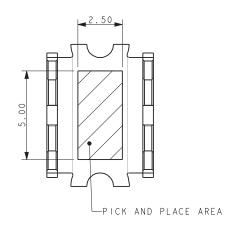




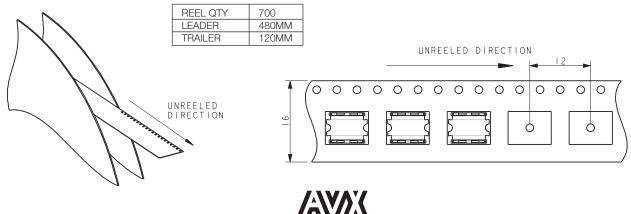
Code	Accepted Wire Gauge	Α
591	12AWG Stranded and Solid	1.50
501	14AWG Stranded and Solid	
512	512 16AWG Stranded and Solid	
522	18AWG Stranded and Solid	0.72

NOTES:

- 1. CONNECTOR FO IDC WIRE TO BOARD CONNECTION.
- 2. CONTACT MATERIAL: PHOSPHORE BRONZE.
- 3. CONTACT PLATING: PURE TIN.
- 4. 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).



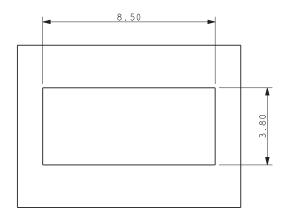
PACKING DETAILS

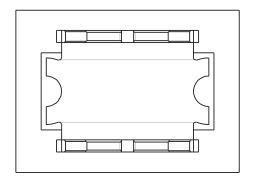


9177-500



12-18 AWG IDC WIRE TO BOARD CONNECTOR SINGLE CONTACT





SUGGESTED PCB LAYOUT

ORIENTATION OF CONTACT
ON PAD

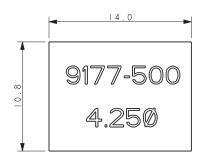
NOTES:

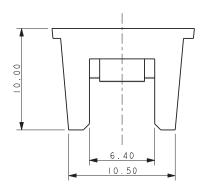
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO AVX SPEC 201-01-208 AND 201-01-209
- 2. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 3. ASSEMBLY TOOLING ON PAGE 4.

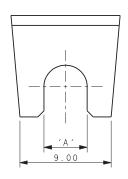
9177-500



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.

