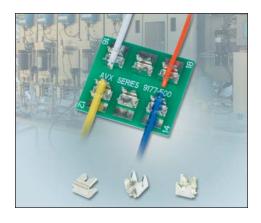
Single IDC Contact 12-18 AWG 9177-500





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

| _70 | 9177 | 001 | |
|--------------|--------|----------------|--|
| T | | | |
| Prefix | Series | Number of Ways | |
| 70 = Contact | | 001 = 1 | |





522 = 18AWG Stranded and Solid

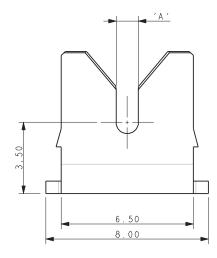


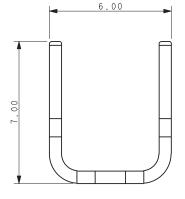
Certification: UL File #E90723

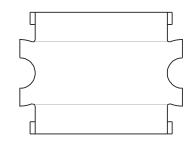
Single IDC Contact 12-18 AWG 9177-500



CONTACT DETAILS



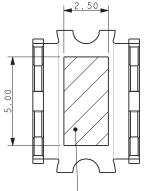




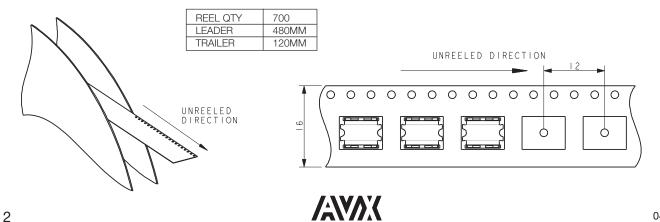
| Code | Accepted Wire Gauge | Α |
|------|--------------------------|------|
| 591 | 12AWG Stranded and Solid | 1.50 |
| 501 | 14AWG Stranded and Solid | 1.10 |
| 512 | 16AWG Stranded and Solid | 0.82 |
| 522 | 18AWG Stranded and Solid | 0.72 |

NOTES:

- 1. CONNECTOR FO IDC WIRE TO BOARD CONNECTION.
- 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).



-PICK AND PLACE AREA

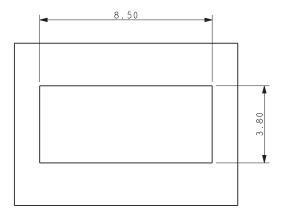


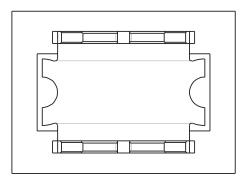
PACKING DETAILS

Single IDC Contact 12-18 AWG 9177-500



12-18 AWG IDC WIRE TO BOARD CONNECTOR SINGLE CONTACT





SUGGESTED PCB LAYOUT

ORIENTATION OF CONTACT ON PAD

NOTES:

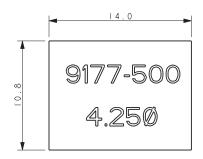
- 1. FOR FULL PRODUCT SPECIFICATION REFER TO AVX SPEC 201-01-208 AND 201-01-209
- 2. DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 3. ASSEMBLY TOOLING ON PAGE 4.

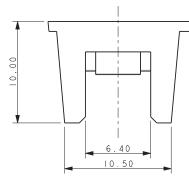
Downloaded from Arrow.com.

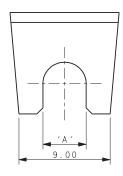
Single IDC Contact 12-18 AWG 9177-500



ASSEMBLY TOOLING



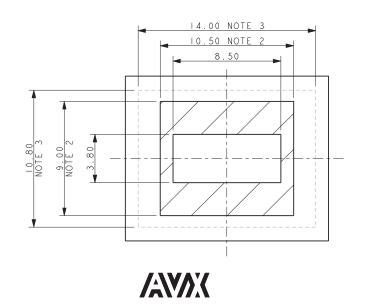




| Wire Guage | Max Insulation (Dimensions 'A') | Tool Number Metal Tool for High Volume | Tool Numbere Plastic Tool for Small to Medium Volume |
|------------|------------------------------------|--|--|
| 12-18 AWG | ø 4.25 | 06-9177-7020-01-001 | 06-9177-7022-01-001 |
| 12-18 AWG | ø 3.50 | 06-9177-7020-02-001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



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