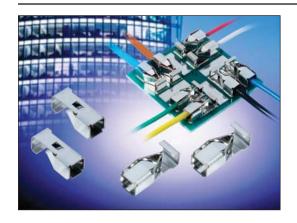
12-28 AWG: WTB



70-9296



The widespread market adaptation of the AVX STRIPTTM contact systems continue to drive new product developments. The 70-9296 series of dual beam, boxed contacts provide a simple, yet reliable wire-to-board alternative to full sized 1pc and 2pc connector solutions. Contacts are SMT onto the PCB, then either solid or stranded wires can be stripped to length and inserted into the contact. Contacts are designed with dual beam high force contacts to maximize wire retention. Integral wire guides and stop assures proper positioning of the wire.

In this round of product expansion, the 2.5mm has been added to offer a new size when trying to maximize AWG and keep the smallest profile contact available is size critical applications. Additionally, this contact has been designed without a wire stop to facilitate solid pin insertion capabilities for board-to-board and module-to-module applications (see BTB Jumper data sheet for 109296001xxx906).

APPLICATIONS

- Industrial/Ruggedized Wire-to-Board applications
- Replace hard soldering of wire to a PCB
- Reference Product Specification 201-01-143
- Reference Application Notes 201-01-150
- Linear Board-to-Board capabilities with 109296001xxx906 jumpers

FEATURES AND BENEFITS

- Dual Beam box contact provides maximum mechanical stability and wire retention
- Tape and reel packaged for automated SMT placement
- Staged current rating based on AWG, maximum is 20A (12AWG)
- 2.5mm w/o wire stop allows for variable PCB mating tolerances in linear BTB applications

ELECTRICAL

- Voltage Rating: 300V
 Based on placement distance
- Current Rating: See Matrix Below

ENVIRONMENTAL

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

MECHANICAL

- Contact Material: Phosphor Bronze
- Contact Plating: Pure Tin
- Durability 5 Cycles

HOW TO ORDER



Contact Size Contact Wire Max **UL** Approved Code Size Gauge Insulation E90723 22-26 AWG 1.3mm Ø 017 1.7mm Contact Yes Solid or Stranded (See page 85) 22-28 AWG 1.5mm Ø 002 2mm Contact Yes Solid or Stranded (See page 85) 20-26 AWG Max 2mm Ø 025 2.5mm Contact No Solid or Standed (See page 85) 18-26 AWG 3mm Contact 2.5mm Ø Yes Solid or Stranded 12-20 AWG 004 4mm Contact 3 4mm Ø Yes Solid or Stranded

0XX

OX6 Plating &

Other Options

006 = Wire Stop Included
Pure Tin All Over

016 = No Wire Stop
(2.5mm only)

Pure Tin All Over



CURRENT RATING

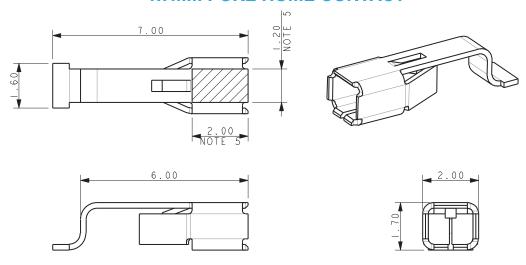
Size	Part Number	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG	24AWG	26AWG	28AWG
4mm	709296001004006	20A	16A	14A	12A	10A				
3mm	709296001003006				12A	10A	8A	7A	5A	
2.5mm	7092960010250x6					12A	10A	8A	6A	
2mm	709296001002006						8A	7A	5A	4A
1.7mm	709296001017006						8A	7A	5A	

12-28 AWG: WTB



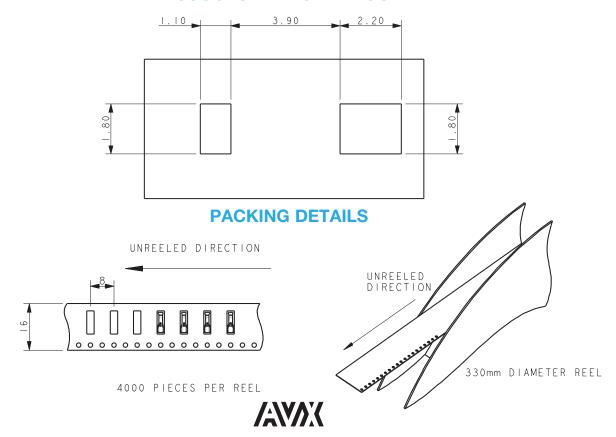
70-9296

70-9296-001-017-006 1.7MM POKE HOME CONTACT



NOTES:

- 1. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 4000 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. UL REFERENCE 90723.
- 7. GENERAL TOLERANCE ±0.10.

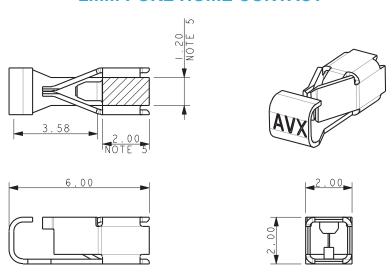


12-28 AWG: WTB



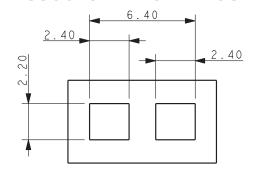
70-9296

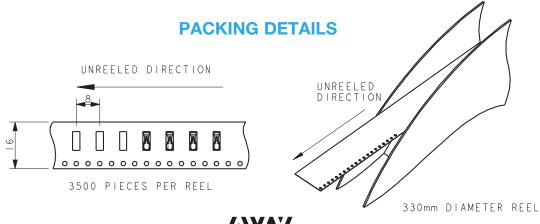
70-9296-001-002-006 2MM POKE HOME CONTACT



NOTES:

- FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 3500 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. UL REFERENCE 90723.
- 7. GENERAL TOLERANCE ±0.10.

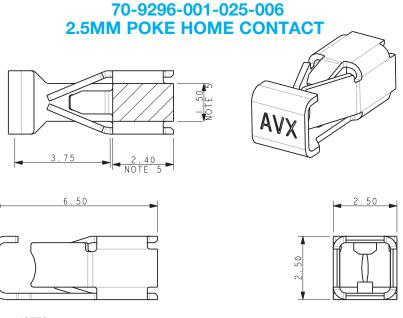




12-28 AWG: WTB

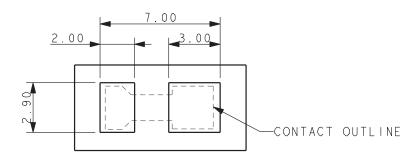


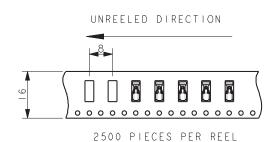
70-9296



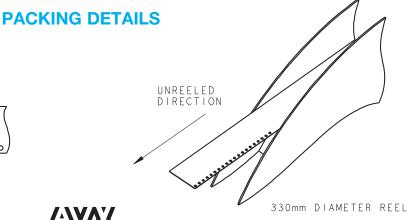
NOTES:

- 1. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 2500 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. THIS COMPONENT IS NOT CURRENTLY UL CERTIFIED.
- 7. GENERAL TOLERANCE ±0.10.







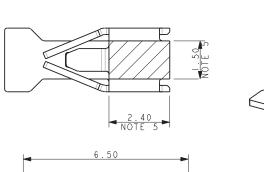


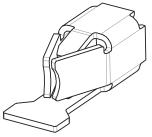
12-28 AWG: WTB

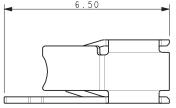


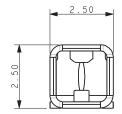
70-9296

70-9296-001-025-016 2.5MM POKE HOME CONTACT - NO STOP



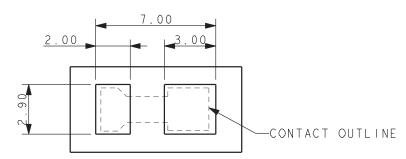


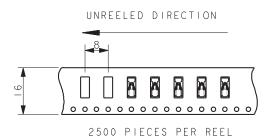


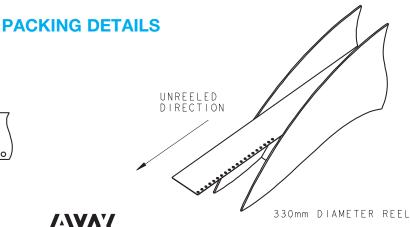


NOTES:

- 1. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 2500 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. THIS COMPONENT IS NOT CURRENTLY UL CERTIFIED.
- 7. GENERAL TOLERANCE ±0.10.



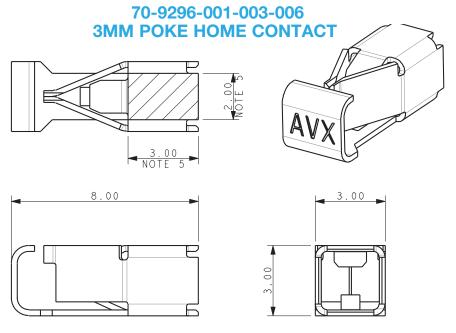




12-28 AWG: WTB



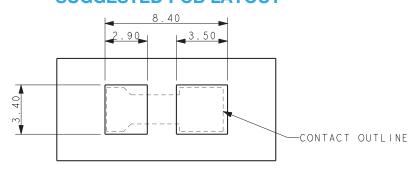
70-9296

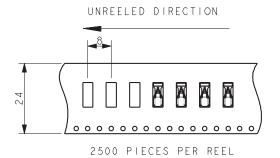


NOTES:

- 1. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 2500 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. UL REFERENCE 90723.
- 7. GENERAL TOLERANCE ±0.10.

SUGGESTED PCB LAYOUT





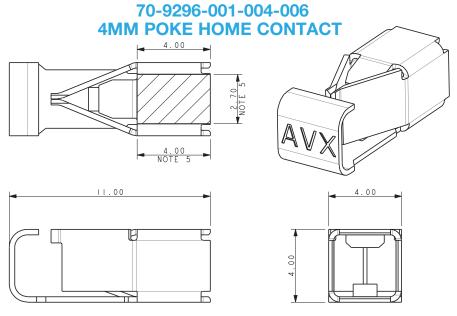
UNREELED DIRECTION

330mm DIAMETER REEL

12-28 AWG: WTB

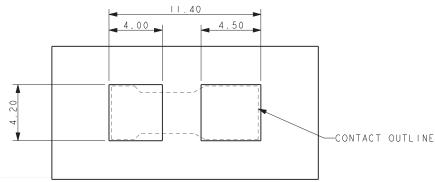


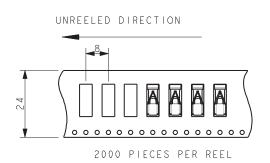
70-9296

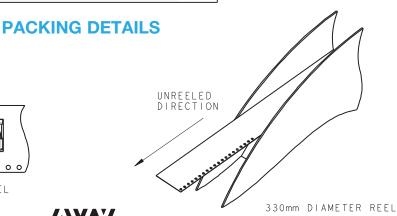


NOTES:

- 1. FOR FURTHER INFORMATION REFER TO ELCO SPECIFICATION 201-01-143 AND APPLICATION NOTES 201-01-150.
- 2. MATERIAL: TIN PLATED PHOSPHOR BRONZE.
- 3. PACKING IN TAPE AND REEL, 2000 PIECES PER REEL.
- 4. FOR WIRE TRIM DETAILS REFER TO PAGE 91.
- 5. AREA AVAILABLE FOR PICK AND PLACE.
- 6. UL REFERENCE 90723.
- 7. GENERAL TOLERANCE ±0.10.







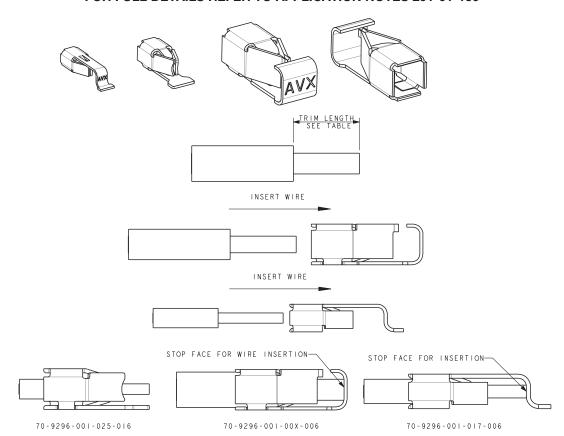
12-28 AWG: WTB



70-9296

CONNECTOR ASSEMBLY

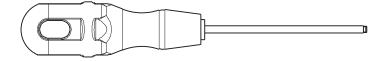
FOR FULL DETAILS REFER TO APPLICATION NOTES 201-01-150



CONTACT	WIRE SIZE	INSULATOR DIAMETER	TRIM LENGTH
70-9296-001-004-006	12AWG and 14AWG	Max 3.4mm	6.5 ± 0.5mm
70-9296-001-004-006	16AWG, 18AWG and 20AWG	Max 2.5mm	5.5 ± 0.5mm
70-9296-001-003-006	18AWG to 26AWG	Max 2.5mm	4.5 ± 0.5mm
70-9296-001-025-006	20AWG to 26AWG	Max 2.0mm	3.5 ± 0.5mm
70-9296-001-025-006	20AWG to 26AWG	2.0mm to 2.50mm	6.0 ± 0.5mm*
70-9296-001-025-016	20AWG to 26AWG	Max 2.0mm	3.0mm Minimum – No Stop on Contact
70-9296-001-025-016	20AWG to 26AWG	Max 2.0mm	5.5mm Minimum – No Stop on Contact
70-9296-001-002-006	22AWG to 28AWG	Max 1.5mm	3.5 ± 0.5mm
70-9296-001-002-006	22AWG to 28AWG	1.5mm to 2.0mm	5.5 ± 0.5mm*
70-9296-001-017-006	22AWG to 26AWG	Max 1.3mm	4.0 ± 0.5mm
70-9296-001-017-006	22AWG to 26AWG	1.3mm to 1.7mm	6.0 ± 0.5mm*

^{*} Wire insulation butts on end of contact

CONTACT OPENING TOOL 06-9296-7001-01-000



TOOL TO OPEN THE CONTACT TO INSERT/WITHDRAW WIRE. REFER TO APPLICATION NOTES 201-01-150.