Series 100 thru 111
DIP Jumpers

FEATURES

- Wide Array of DIP Jumper Configurations and Wiring Possibilities
- Reliable, Electronically-tested Solder Connections
- Protective Covers Ultrasonically-welded with Strain Relief
- Easy Identification and Tracing with 10-color Cable

GENERAL SPECIFICATIONS

- **HEADER BODY AND COVER:** black UL 94V-0 4/6 Nylon
- **HEADER PINS:** Brass 1/2-hard
- **STANDARD PIN PLATING:** 10µ [0.25µ] min. Au per MIL-G-45204 over 50µ [1.27µ] min. Ni per QQ-N-290
- **OPTIONAL PLATING:** 200µ [5.08µ] min. matte Sn per ASTM B545-97(2004)e1 over 50µ [1.27mm] min. Ni per QQ-N-290; **–OR–** 200µ [5.08µ] 90/10 Sn/Pb per MIL-T-10727 Type I over 50µ [1.27µ] min. Ni per QQ-N-290
- **CABLE INSULATION:** UL style 2697 Polyvinyl Chloride (PVC)
- **CABLE LAMINATE:** clear PVC, self-extinguishing*
- **0.050 [1.27] PITCH CONDUCTORS:** 28-AWG, 7/36-strand, tinned Cu per ASTM B 33
- **0.039 [0.99] PITCH CONDUCTORS:** 26-AWG, 7/34-strand)
- **CABLE CURRENT RATING:** 1 amp at 10°C [50°F] above ambient
- **CABLE VOLTAGE RATING:** 300V
- **CABLE TEMPERATURE RATING:** 176°F [80°C]
- **CABLE CAPACITANCE:** 13.0pF/ft. [42.7pF/meter] nominal at 1MHz*
- **CROSSTALK:** 10-ft sample, 5ns rise time with 2 lines driven; near end 4.7%; far end 4.3% nominal*
- **PROPAGATION DELAY:** 1.5ns/ft. [4.9ns/meter] nominal*
- **INSULATION RESISTANCE:** 1010Ω (10 ft. [3 meters] min.)

ORDERING INFORMATION

XX-XXXX-XXX XXX

- **Optional Header Pin Plating**
  - T = Sn
  - TL = Sn/Pb
  - ST = Stripped, Sn-dipped (106-111 Series)
  - STL = Stripped & Sn/Pb dipped ends (Series 106-111)
- **Jumper Series**
- **Cable Length** (inches)
  - 2" = .002 (min.) [50.88]
  - 2.5" = 002.5
- **No. of Conductors** (see Table)

MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.033 ±0.002 [0.86 ±0.05] dia.
  * Applies to 0.050 [1.27] Pitch Cable Only

NUMBER OF CONDUCTORS

Available Sizes	Centers "C"	Dim. "D"
4 thru 20	0.300 [7.62]	0.395 [10.03]
22	0.400 [10.16]	0.495 [12.57]
24, 28, 40	0.600 [15.24]	0.695 [17.65]

SINGLE-END DIP JUMPER WIRE LIST

Series 106, 108, 110		Series 107, 109, 111	
Wire Number	Header Pin Number	Wire Number	Header Pin Number
1	1	1	1
2	8	2	2
3	2	3	3
4	7	4	4
5	3	5	5
6	6	6	6
7	4	7	7
8	5	8	8

ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED
CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

CUSTOMIZATION: ARIES SPECIALIZES IN CUSTOM DESIGN AND PRODUCTION. SPECIAL MATERIALS, PLATINGS, SIZES, AND CONFIGURATIONS CAN BE FURNISHED, DEPENDING ON QUANTITY.

ARIES RESERVES THE RIGHT TO CHANGE PRODUCT GENERAL SPECIFICATIONS WITHOUT NOTICE

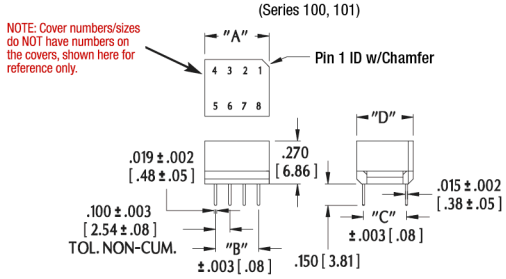
PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE CONSIDERED UNCONTROLLED

ARIES® ELECTRONICS, INC.
2609 Bartram Road • Bristol, PA 19007-6810 USA
TEL 215-781-9956 • FAX 215-781-9845
WWW.ARIESELEC.COM • INFO@ARIESELEC.COM

RoHS Compliant

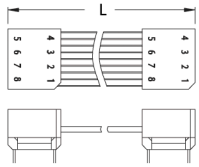
Series 100 thru 111
DIP Jumpers

Header Detail
(Series 100, 101)

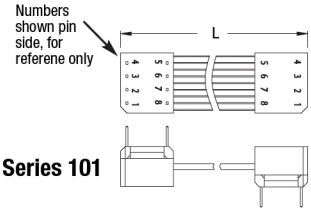


"A' = (No. of Conductors x 0.050 [1.27]) + 0.095 [2.41]
"B" = (No. of Conductors -1) x 0.050 [1.27]
"L" ±0.125

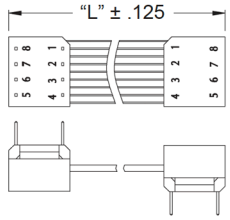
Series 100



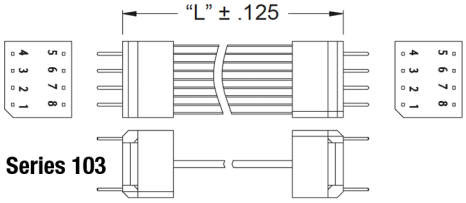
Series 101



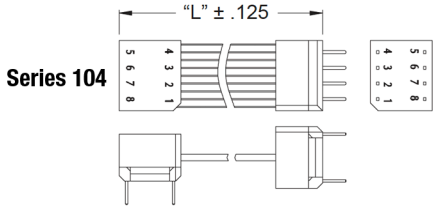
Series 102



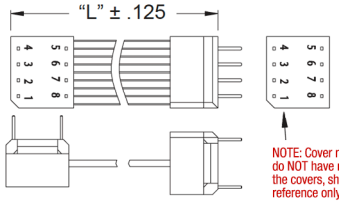
Series 103



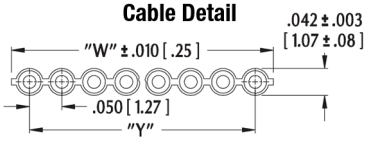
Series 104



Series 105

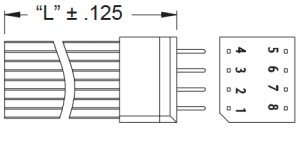


Cable Detail

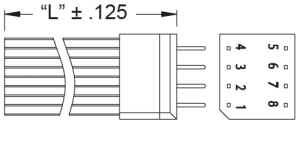


"W"=(NO. OF CONDUCTORS X .050 [1.27]) + .005 [.08]
"Y"=(NO. OF CONDUCTORS - 1) X .050 [1.27]

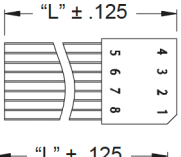
Series 106



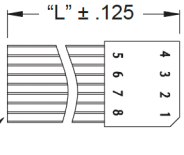
Series 107



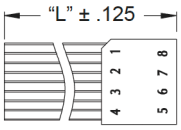
Series 108



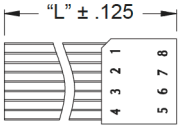
Series 109



Series 110



Series 111



Cable Detail
(Series 107/109/111)

"Z"=(NO. OF CONDUCTORS - 1) X .039 [.99]

ARIES ELECTRONICS, INC.
2609 Bartram Road • Bristol, PA 19007-6810 USA
TEL 215-781-9956 • FAX 215-781-9845
WWW.ARIESELEC.COM • INFO@ARIESELEC.COM

RoHS Compliant