



# 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:** 10 $\mu$  [0.25 $\mu$ ] min. Au per MIL-G-45204 over 50 $\mu$  [1.27 $\mu$ ] min. Ni per QQ-N-290
- **OPTIONAL PLATING:** 200 $\mu$  [5.08 $\mu$ ] min. matte Sn per ASTM B545-97(2004)e1 over 50 $\mu$  [1.27mm] min. Ni per QQ-N-290; **—OR—** 200 $\mu$  [5.08 $\mu$ ] 90/10 Sn/Pb per MIL-T-10727 Type I over 50 $\mu$  [1.27 $\mu$ ] 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:** 1010 $\Omega$  (10 ft. [3 meters] min.)

## MOUNTING CONSIDERATIONS

- **SUGGESTED PCB HOLE SIZE:** 0.033  $\pm$  0.002 [0.86  $\pm$  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] |



## 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)

## 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:  $\pm$ 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



11006  
Rev. 8.4  
1 of 2

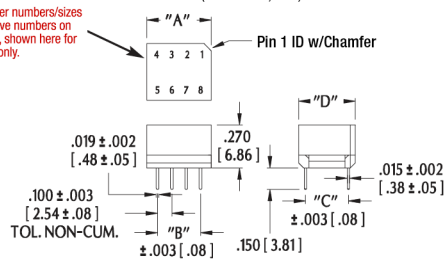


# Series 100 thru 111 DIP Jumpers

## Header Detail

(Series 100, 101)

NOTE: Cover numbers/sizes do NOT have numbers on the covers, shown here for reference only.

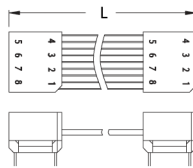


"A" = (No. of Conductors x 0.050 [1.27]) + 0.095 [2.41]

"B" = (No. of Conductors - 1) x 0.050 [1.27]

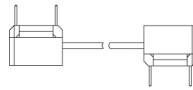
"L" ± 0.125

## Series 100

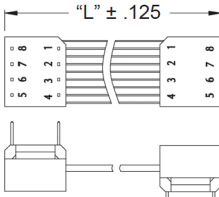


Numbers shown pin side, for reference only

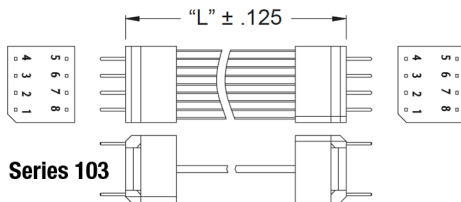
## Series 101



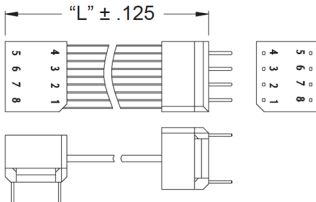
## Series 102



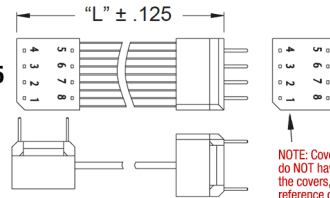
## Series 103



## Series 104

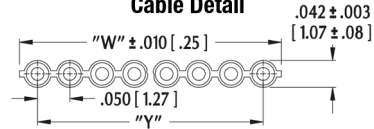


## Series 105



NOTE: Cover numbers/sizes do NOT have numbers on the covers, shown here for reference only.

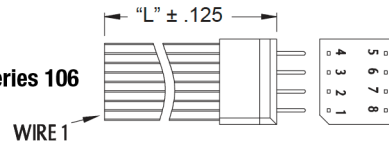
## Cable Detail



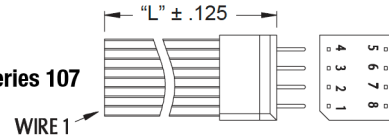
"W" = (NO. OF CONDUCTORS X .050 [1.27]) + .005 [.08]

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

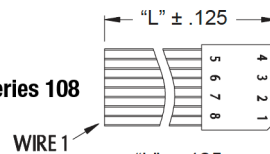
## Series 106



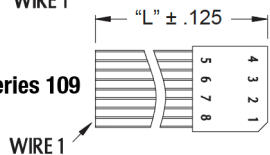
## Series 107



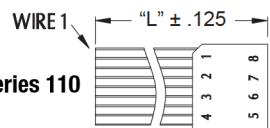
## Series 108



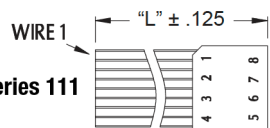
## Series 109



## 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



11006  
Rev. 8.4  
2 of 2

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Aries Electronics:

[28-024-100](#) [12-012-111](#) [12-012-110](#) [12-012-107](#) [12-012-103](#) [12-012-101](#) [12-012-109](#) [12-012-105](#) [12-012-102](#)  
[12-012-106](#) [12-012-104](#) [12-012-108](#) [12-012-100](#) [16-012-110](#) [16-012-111](#) [16-012-104](#) [16-012-100](#) [16-012-108](#) [16-](#)  
[012-106](#) [16-012-102](#) [16-012-103](#) [16-012-107](#) [16-012-105](#) [16-012-101](#) [16-012-109](#) [10-012-105](#) [10-012-109](#) [10-](#)  
[012-101](#) [18-012-111](#) [10-012-107](#) [10-012-103](#) [10-012-108](#) [18-012-110](#) [10-012-100](#) [10-012-104](#) [10-012-102](#) [10-](#)  
[012-106](#) [18-012-103](#) [18-012-107](#) [18-012-105](#) [10-012-111](#) [18-012-101](#) [18-012-109](#) [18-012-106](#) [18-012-102](#) [10-](#)  
[012-110](#) [18-012-100](#) [18-012-108](#) [18-012-104](#) [40-024-110](#) [40-024-111](#) [14-012-102](#) [14-012-106](#) [14-012-104](#) [14-](#)  
[012-108](#) [14-012-100](#) [14-012-101](#) [14-012-109](#) [14-012-105](#) [14-012-103](#) [14-012-107](#) [18-006-100](#) [18-006-105](#) [14-](#)  
[012-110](#) [14-012-111](#) [40-024-108](#) [40-024-100](#) [40-024-104](#) [40-024-102](#) [40-024-106](#) [40-024-107](#) [40-024-103](#) [40-](#)  
[024-109](#) [40-024-101](#) [40-024-105](#) [16-036-110ST](#) [16-004-100](#) [04-012-105](#) [04-012-109](#) [04-012-101](#) [04-012-107](#) [04-](#)  
[012-103](#) [04-012-108](#) [04-012-100](#) [04-012-104](#) [04-012-102](#) [04-012-106](#) [08-006-103](#) [08-006-104](#) [04-012-111](#) [04-](#)  
[012-110](#) [08-012-102](#) [08-012-106](#) [08-012-104](#) [08-012-108](#) [08-012-100](#) [08-012-101](#) [08-012-109](#) [08-012-105](#) [08-](#)  
[012-103](#)