



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.)

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]



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: ±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

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11006
Rev. 8.4
1 of 2

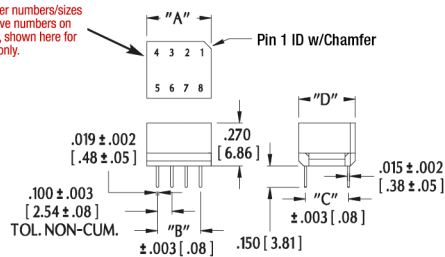


Series 100 thru 111 DIP Jumpers

Header Detail

(Series 100, 101)

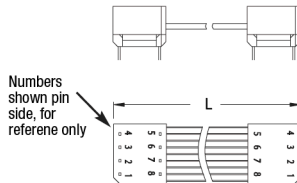
NOTE: Cover numbers/sizes do NOT have numbers on the covers, shown here for reference only.



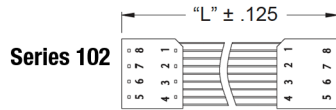
"A" = (No. of Conductors x 0.050 [1.27]) + 0.095 [2.41]
"B" = (No. of Conductors - 1) x 0.050 [1.27]
"L" ± 0.125



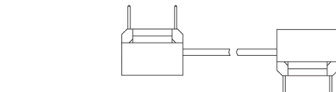
Series 100



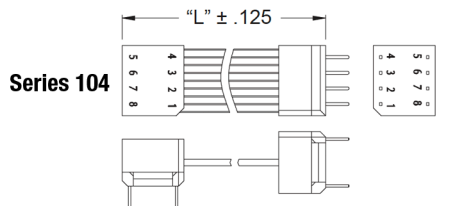
Series 101



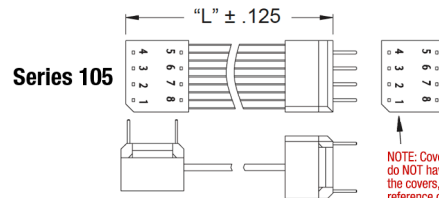
Series 102



Series 103

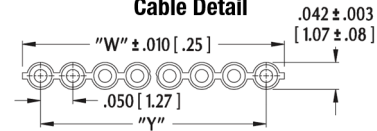


Series 104

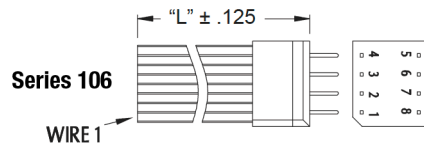


Series 105

Cable Detail

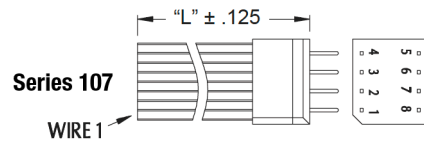


"W" = (NO. OF CONDUCTORS X 0.050 [1.27]) + 0.005 [0.08]
"Y" = (NO. OF CONDUCTORS - 1) X 0.050 [1.27]



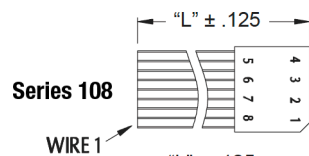
Series 106

WIRE 1



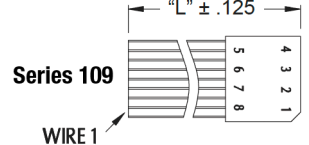
Series 107

WIRE 1



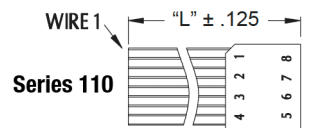
Series 108

WIRE 1



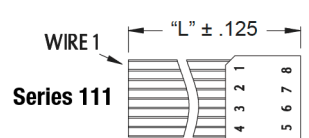
Series 109

WIRE 1



Series 110

WIRE 1



Series 111

Cable Detail

(Series 107/109/111)



"Z" = (NO. OF CONDUCTORS - 1) X 0.039 [.99]



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