

## Series 181 thru 183 90° Pin-Staked Flex Jumper

#### **FEATURES**

 Combination of Thin, Flexible, Solid Cu Conductors embedded between layers of Tough, Flexible, Flameretardant Insulation

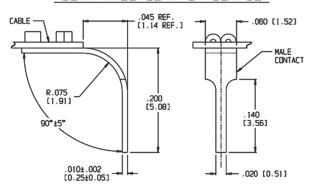
### **GENERAL SPECIFICATIONS**

- STANDARD CABLE INSULATION: White UL VW-1, Style 2643 Flame-retardant Polyester (Mylar) adhesive
- CABLE CONDUCTORS: Solid Cu with a cross-sectional area equivalent to that of 26-gauge AWG
- FEMALE HOUSING: Black UL 94V-0 glass-filled Stanyl 4/6 Nylon
- CRIMP-ON PINS: Spring-tempered Cu 510
- PIN PLATING: 100μ [2.54μ] min. matte Sn per ASTM B545-97(2004)e1 over 50μ min. Ni per ASTM AMS-QQ-N-290 –0R– 100μ [2.54μ] min. 93/7 Sn/Pb per SAE AMS-P-81728 over 50μ [1.27μ] min. Ni per SAE AMS-QQ-N-290B
- CABLE CURRENT RATING: 3 amps
- CABLE VOLTAGE RATING: 300V
- CABLE DIELECTRIC STRENGTH: 2500V/mil, min. (standard) 4000V/mil, min. (high-temp)
- CABLE INSULATION RESISTANCE: 1000 MΩ min. (standard) 100,000 mΩ (high-temp)
- CONDUCTOR/CONTACT RESISTANCE (avg.):  $20~\text{m}\Omega$  initial (max.  $20~\text{m}\Omega$  increase) based on a 2" cable at  $20^\circ\text{C}$
- STD OPERATING TEMPERATURE: -67 to 221°F [-55 to 105°C]
- HT OPERATING TEMPERATURE: -67 to 257°F [-55 to 125°C]
- ACCEPTS LEADS (female housing): 0.024-0.030 [0.61-0.76] square, 0.150 [3.81] long min.

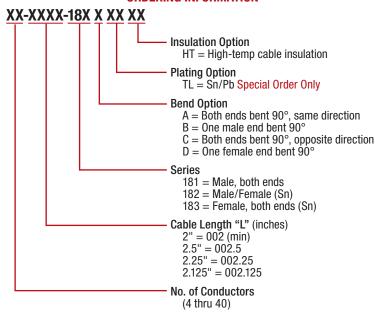
#### **MOUNTING CONSIDERATIONS**

• SUGGESTED PCB HOLE SIZE:  $0.033 \pm 0.002$  [0.86  $\pm 0.05$ ] dia.

## BENT MALE CONTACT DETAIL



## ORDERING INFORMATION



NOTE: Please contact the factory for price and availability of any high-temp (HT) cable larger than 20 conductors.

ALL DIMENSIONS: INCHES [MILLIMETERS] ALL TOLERANCES:  $\pm 0.005$  [0.13] UNLESS OTHERWISE SPECIFIED MAY SHIP WITH OR WITHOUT POLARIZATION STRIPE UNLESS 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

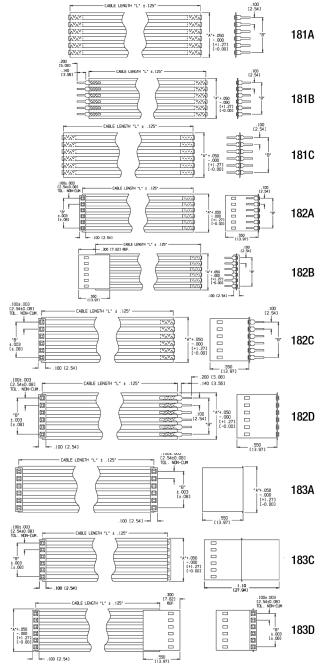
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"A"= NO. OF CONDUCTORS x 0.100 [2.54]
"B"= (NO. OF CONDUCTORS -1) x 0.100 [2.54]

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