



Series 181 thru 183

90° Pin-Staked Flex Jumper

FEATURES

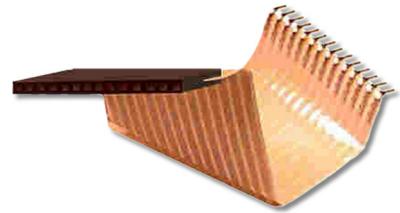
- Combination of Thin, Flexible, Solid Cu Conductors embedded between layers of Tough, Flexible, Flame-retardant Insulation

GENERAL SPECIFICATIONS

- STANDARD CABLE INSULATION:** White UL VW-1, Style 2643 Flame-retardant Polyester (Mylar) adhesive
- HT CABLE INSULATION:** High-temp, Flame-retardant Polyimide (Kapton) with acrylic 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:** 100 μ [2.54 μ] min. matte Sn per ASTM B545-97(2004)e1 over 50 μ min. Ni per ASTM AMS-QQ-N-290-OR- 100 μ [2.54 μ] min. 93/7 Sn/Pb per SAE AMS-P-81728 over 50 μ [1.27 μ] 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 M Ω min. (standard) 100,000 m Ω (high-temp)
- CONDUCTOR/CONTACT RESISTANCE (avg.):** 20 m Ω initial (max. 20 m Ω increase) based on a 2" cable at 20°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.



ORDERING INFORMATION

XX-XXXX-18X X X XX XX

Insulation Option

HT = High-temp cable insulation

Plating Option

TL = Sn/Pb

Polarization Option

P = Polarization stripe

Bend Option

A = Both ends bent 90°, same direction
B = One male end bent 90°
C = Both ends bent 90°, opposite direction
D = One female end bent 90°

Series

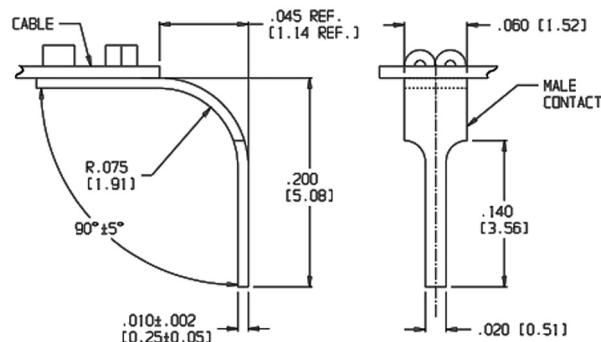
181 = Male, both ends
182 = Male/Female (Sn)
183 = Female, both ends (Sn)

Cable Length "L" (inches)

2" = 002 (min)
2.5" = 002.5
2.25" = 002.25
2.125" = 002.125

No. of Conductors
(4 thru 40)

BENT MALE CONTACT DETAIL



ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ± 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.

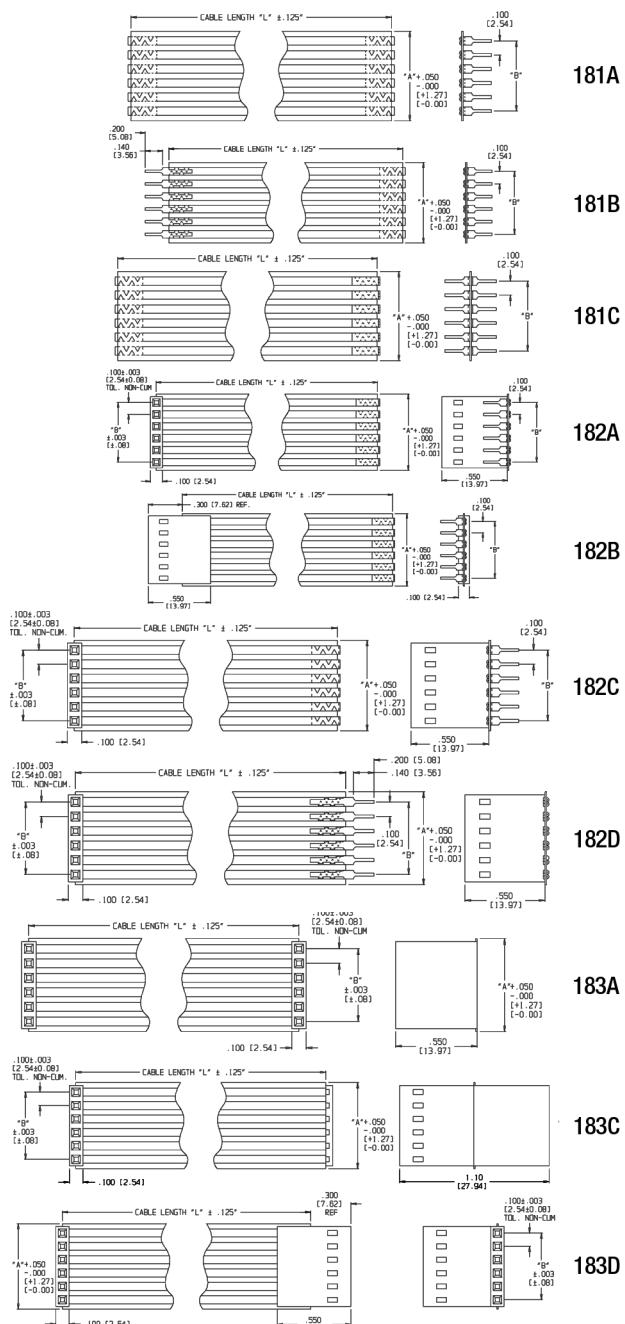
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90° Pin-Staked Flex Jumper



"A" = NO. OF CONDUCTORS x 0.100 [2.54]

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

ALL DIMENSIONS: INCHES [MILLIMETERS]

ALL TOLERANCES: ± 0.005 [0.13] UNLESS OTHERWISE SPECIFIED

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