



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

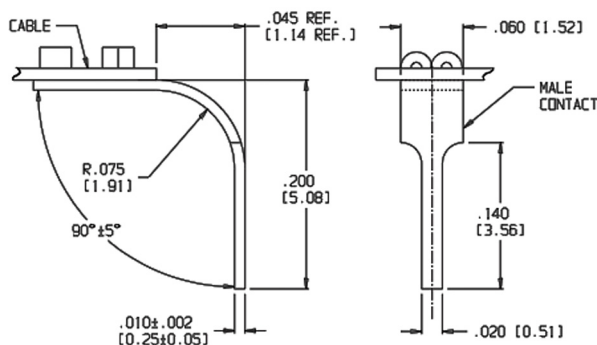
GENERAL SPECIFICATIONS

- 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:** 100μ [2.54μ] min. matte Sn per ASTM B545-97(2004)e1 over 50μ min. Ni per ASTM AMS-QQ-N-290 —OR— 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 mΩ initial (max. 20 mΩ 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 ± 0.002 [0.86 ± 0.05] dia.

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



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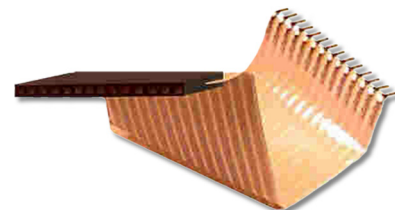
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Rev. 11.4
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ORDERING INFORMATION

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

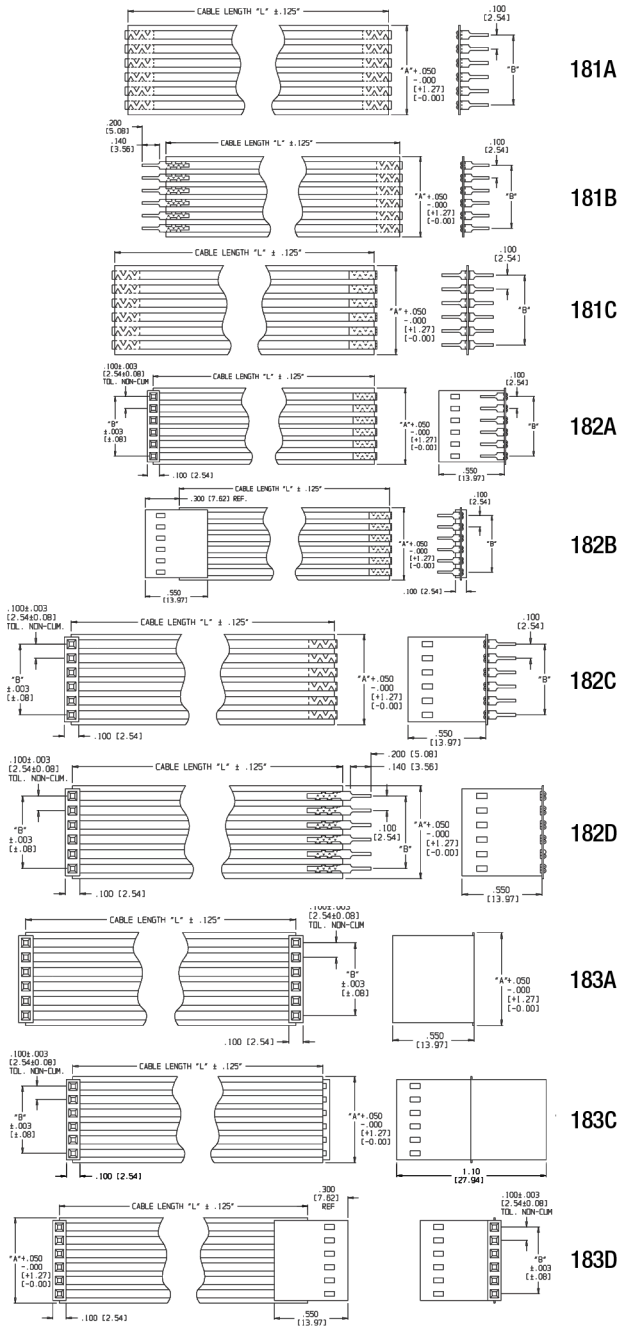
No. of Conductors
(4 thru 40)

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



Series 181 thru 183

90° Pin-Staked Flex Jumper



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

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

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

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