



# Series 171 thru 173 Flat Pin-Staked Flex Jumpers

## 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
- HIGH-TEMP FLAME-RETARDANT CABLE INSULATION:** Polyimide (Kapton®) with Acrylic Adhesive
- CABLE CONDUCTORS:** solid Cu with cross-sectional area equivalent to 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 [1.27µ] min. Ni per SAE AMS-QQ-N-290; -OR- 100µ [2.54µ] min. 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)
- STD OPERATING TEMPERATURE:** -67 to 221°F [-55 to 105°C]
- HT OPERATING TEMPERATURE:** -67 to 257°F [-55 to 125°C]
- FEMALE HOUSING ACCEPTS LEADS:** 0.024-0.030 [0.61-0.76] square, 0.150 [3.81] long min.

## MOUNTING CONSIDERATIONS

- SUGGESTED PCB HOLE SIZE:** 0.032 ±0.002 [0.81 ±0.05] dia.



## ORDERING INFORMATION

XX-XXXXX-17X X XX XX

Optional Insulation  
HT = High-temp

Optional Plating  
TL = Sn/Pb

Optional Stripe  
P = Polarization Stripe  
(along one edge of cable)\*

Jumper Series  
171 = Male Sn, both ends  
172 = Male/Female, both Sn  
173 = Female Sn, both ends

Cable Length "L" (inches)  
2.000" = 002 (min)  
2.500" = 002.5  
2.250" = 002.25  
2.125" = 002.125

No. of Conductors  
4 thru 40

\* Aries reserves the right to ship with or without unless specified by customer.

**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: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED  
FOR CABLE LENGTHS UNDER 2.000 [50.80], CONSULT FACTORY  
FOR 90° PIN STAKED FLEX JUMPERS, SEE DATA SHEET 11019

FOR RoHS APPLICATIONS, USE HT CABLE

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  
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PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE  
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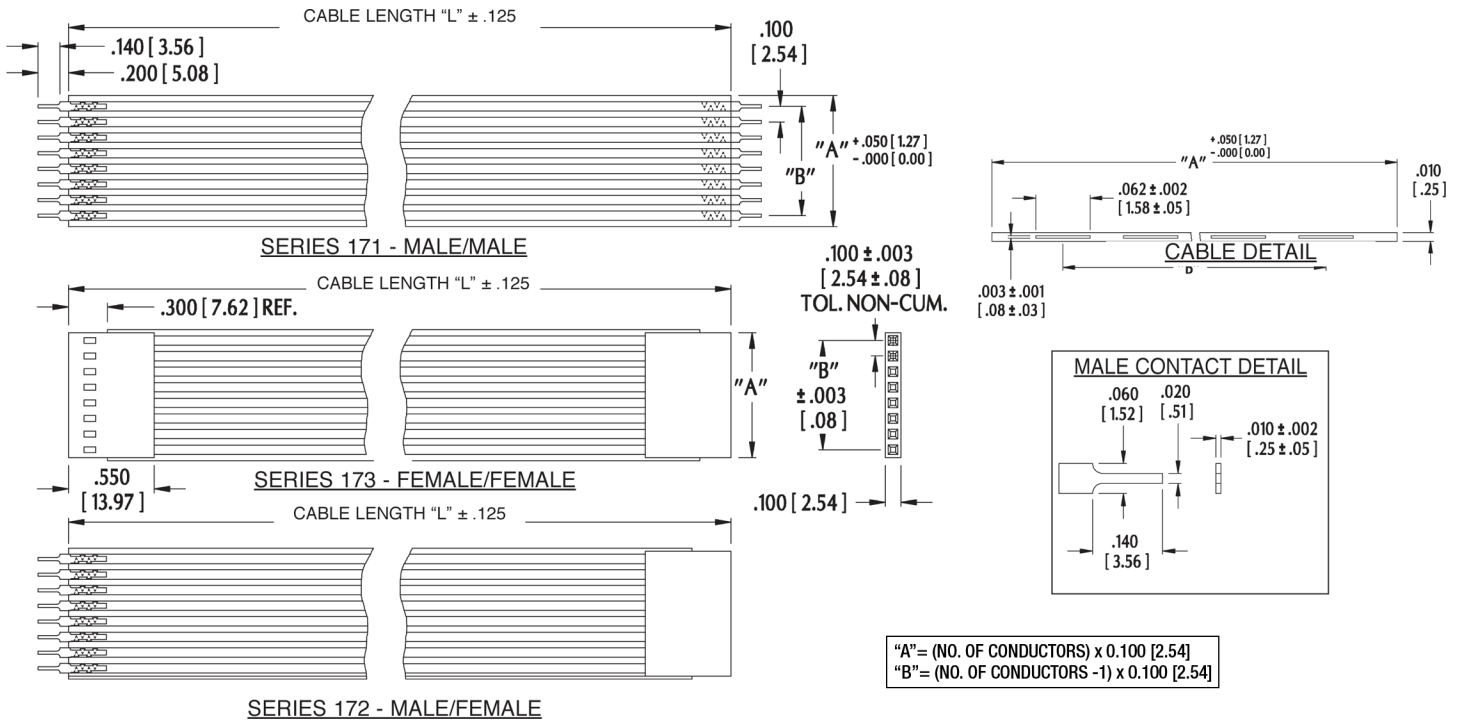
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11005  
Rev. 10.5  
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