



# 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  
WITHOUT NOTICE

PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE  
CONSIDERED UNCONTROLLED



**ARIES**  
ELECTRONICS, INC.

2609 Bartram Road • Bristol, PA 19007-6810 USA  
TEL 215-781-9956 • FAX 215-781-9845  
[WWW.ARIESELEC.COM](http://WWW.ARIESELEC.COM) • [INFO@ARIESELEC.COM](mailto:INFO@ARIESELEC.COM)



11005  
Rev. 10.5  
1 of 2



# Series 171 thru 173 Flat Pin-Staked Flex Jumpers



ALL DIMENSIONS: INCHES [MILLIMETERS]  
ALL TOLERANCES:  $\pm 0.005$  [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  
WITHOUT NOTICE

PRINTOUTS OF THIS DOCUMENT MAY BE OUT-OF-DATE AND SHOULD BE  
CONSIDERED UNCONTROLLED



**ARIES**  
ELECTRONICS, INC.

2609 Bartram Road • Bristol, PA 19007-6810 USA  
TEL 215-781-9956 • FAX 215-781-9845  
[WWW.ARIESELEC.COM](http://WWW.ARIESELEC.COM) • [INFO@ARIESELEC.COM](mailto:INFO@ARIESELEC.COM)



11005  
Rev. 10.5  
2 of 2