2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA 90509 U.S.A.

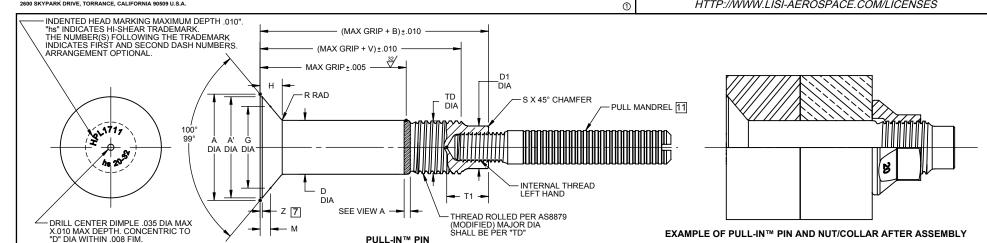
HI-SHEAR Corporation, USA a LISI AEROSPACE Company

Design Holder

CAGE No. 73197

For the current list of licensed manufacturers, please visit the LISI AEROSPACE website at:

HTTP://WWW.LISI-AEROSPACE.COM/LICENSES



| FIRST | ST PIN | А | A. | | | TD | | - | G | | м | R | S | ., | _ | TUDEAD | INTERNAL THREAD 9 | | | DOUBLE | TENSION | TENSION- TENSION |
|---------|--------|----------|------------|-------|------------------|-------------------|----------------|------|------------------|------|----------------|---------------|----------------|-------|------|----------------------|-------------------|------------------------|-----------------------|----------------------------|-------------------|--------------------------|
| DA N | | | DIA MIN | REF | DIA | T D DIA | D1 DIA | REF | GAGE DIA | REF | GAGE PROT. | RAD ROLLED | CHAMFER REF | REF | REF | THREAD MODIFIED | T1 MAX | THREAD SIZE UNJF-2B | LOAD POUNDS MAX | SHEAR POUNDS MINIMUM | POUNDS MINIMUM | FATIGUE POUNDS MAX |
| 2 | 0 11/1 | 6 1.1850 | 1.1320 | .935 | .6865 .6855 | .6180 .6120 | .5413 .5394 | .010 | .8902 .8900 | .209 | .1236 .1205 | .050 .040 | .020 | .733 | .022 | .6250-18 UNJF-3A | .520 | 3/8-SP | 14,200 | 70,500 | 29,203 | 10,200 |
| 2 | 4 13/1 | 6 1.3970 | 1.3450 | 1.125 | .8115 .8105 | .7430 .7370 | .6575 .6555 | .012 | 1.1124 1.1122 | .246 | .1195 .1145 | .050 .040 | .020 | .927 | .022 | .7500-16 UNJF-3A | .625 | 7/16-SP | 19 109 | 98,600 | 42,000 | 14,770 |
| 2 | 3 15/1 | 6 1.6100 | 1.5580 | 1.315 | .9365 .9355 | .8680 .8610 | .7717 .7697 | .014 | 1.3440 1.3438 | .283 | .1117 .1069 | .050 .040 | .020 | 1.021 | .022 | .8750-14 UNJF-3A | .725 | 1/2-SP | 31 500 | 123,700 | 56,267 | 19,842 |
| 3 | 2 17/1 | 6 1.8220 | 1.7700 | 1.500 | 1.0615 1.0605 | .9930 .9860 | .8819 .8799 | .014 | 1.5732 1.5730 | .319 | .1046 .0996 | .050 .040 | .020 | 1.151 | .022 | 1.0000-12 UNJF-3A | .830 | 9/16-SP | 38 218 | 163,800 | 71,000 | 24,850 |

SEE NUT/COLLAR STANDARDS FOR STRENGTHS. LOWER STRENGTH (PIN OR NUT/COLLAR) DETERMINES SYSTEM STRENGTH.

GENERAL NOTES: 1 Head edge out of roundness shall not exceed "F".

2. Concentricity: Conical surface of head to "D" diameter within .010 FIM.

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3. "H" is dimensioned from maximum "D" diameter

4. Dimensions in inches and to be met after finish.

① 5. Surface texture per AMSE B46.1.

6. Hole preparation per HSL/HPL-IS01: PULL-STEM™/ PULL-IN™ fastener installation specification for HSL/HPL pins.

Curved or flat edge manufacturers option.

8. HPL1711 is the oversize replacement for HPL1611.

9 The maximum allowable installation load must not exceed the maximum load values in table or thread/mandrel failure may occur.

10. Product in accordance with LISI AEROSPACE Product Specification N°415.

11 Mandrel is sold separately.

HOW TO ORDER

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① **EXAMPLES**: Pin Part Number HPL1711NAP20-32

- 32/16 or 2 Maximum Grip Length 20/32 or 5/8 Nominal Diameter Pin Finish Code

Pin Basic Part Number

which HPL1711 oversize pin replaces.

CODE: First dash number indicates nominal diameter in 1/32nds of the pin

Second dash number indicates maximum grip in 1/16ths.

See "Finish" note for explanation of code letters.

THIS AREA OF SPECIAL CONFIGURATION AND COLD WORKING TO MEET PHYSICAL REQUIREMENTS



VIEW A

HI-LITE™ THREAD TRANSITION AREA SEE SPECIFICATION FOR INSPECTION

MATERIAL: Pin = Titanium alloy 6Al-4V per AMS4928 or AMS4967.

Pin = 160,000 psi tensile minimum and 95,000 psi shear minimum. HEAT TREAT:

FINISH: HPL1711NAP()-() = HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305.

HPL1711NKM()-() = HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, with color white on pin end ,and cetyl alcohol lube per Hi-Shear Spec. 305.

"HI-KOTE", "HI-LITE", "PULL-IN" AND "HPL". ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY DATE F.CARINGELLA 2016-02-18 APPROVED DATE C.REITZ 2016-02-18

PULL-IN™ PIN 100° FLUSH SPECIAL SHEAR HEAD INTERFERENCE FIT **TITANIUM** 1/16 GRIP VARIATION, 1/16 OVERSIZE

DATE DRAWING NUMBER F.CARINGELL

HPL1711

1 OF 1