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

HI-SHEAR Corporation, USA a LISI AEROSPACE Company

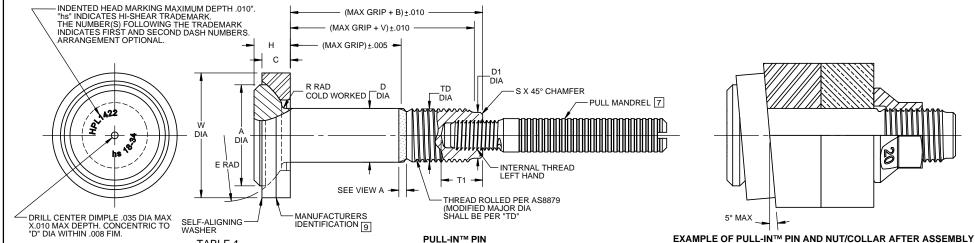
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Design Holder

CAGE No. 73197

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

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



IABLE 1							TOLE III													
FIRST	PIN NOM	A DIA	В	D	TD	D1	w	н	S CHAMFER	v	E	R RAD	С	THREAD	INTERNAL THREAD LEFT HAND 10			DOUBLE SHEAR	TENSION POUNDS	
NO.	DIA	REF	REF	DIA	DIA	DIA	DIA	MAX	REF	REF	RAD	ROLLED	REF	MODIFIED	T1 MAX	THREAD SIZE UNJF-2B	LOAD POUNDS MAX	POUNDS MINIMUM	MINIMUM	POUNDS MAX
18	37/64	1.051	.845	.5771 .5761	.5550 .5500	.4783 .4764	1.307 1.300	.382	.020	.701	.688	.040 .025	.303	.5625-18 UNJF-3A	.465	5/16-SP	11,500	49,900	32,400	11,300
20	41/64	1.130	.935	.6396 .6386	.6180 .6120	.5413 .5394	1.437 1.430	.405	.020	.733	.750	.040 .025	.319	.6250-18 UNJF-3A	.520	3/8-SP	14,200	61,200	41,000	14,400
24	49/64	1.291	1.125	.7646 .7636	.7430 .7370	.6575 .6555	1.689 1.681	.547	.020	.927	.875	.045 .030	.358	.7500-16 UNJF-3A	.625	7/16-SP	19,109	87,400	59,500	21,000
28	57/64	1.449	1.315	.8896 .8886	.8680 .8610	.7717 .7697	1.921 1.913	.634	.020	1.021	1.000	.050 .035	.390	.8750-14 UNJF-3A	.725	1/2-SP	31,500	115,000	77,500	28,800
32	1-1/64	1.602	1.500	1.0146 1.0136	.9930 .9860	.8819 .8799	2.134 2.126	.712	.020	1.151	1.125	.060 .045	.437	1.0000-12 UNJF-3A	.830	9/16-SP	38,218	145,200	100,900	37,600

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

- **GENERAL NOTES:** 1. Concentricity: "A" to "D" diameter within .010 FIM. 2. Dimensions in inches and to be met after finish.

 - 2 3. Surface texture per ASME B46.1.
 - 4. Hole preparation per HSL/HPL-IS01: PULL-STEM™ / PULL-IN™ fastener installation specification for HSL/HPL pins.

 - Tastener installation specification for HSL/HPL pins.
 5. HPL1422 is the oversize replacement for HPL1412.
 6. Use HPL1432 for oversize replacement.
 7 Mandrel is sold separately.
 8. Product in accordance with LISI AEROSPACE Product Specification N°415.
 9 One line indicates Blanc Aero Industries, France as manufacturer.

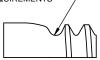
 - 9 One line indicates brain: Aero industries, France as manuacturer.

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

 11 After February 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating per
 Hi-Shear Spec. 294 will be replaced by REACH compliant HI-KOTE™ 1 NC
 aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in

the European Union.





VIEW A

HI-LITE™ THREAD TRANSITION AREA SEE SPECIFICATION FOR INSPECTION

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

TITLE
PULL-IN™ PIN
SELF-ALIGNING TENSION HEAD
INTERFERENCE FIT
TITANIUM
1/16 GRIP VARIATION, 1/64 OVERSIZE

M.BEARD

HPL1422 2017-10-26

1 OF 2

(2)



FINISH TABLE

Part	Finish, Lube, ID Code	Finish	Lube	Idenitfication	
Titanium		HI-KOTE™ 1 Aluminum Pigmented Coating per Hi-Shear Spec. 294	Cetyl alcohol lube per Hi-Shear	White color on pin end	
Pin		HI-KOTE™ 1 NC Aluminum Pigmented Coating per Hi-Shear Spec. 294	Spec. 305		
Titanium		HI-KOTE™ 1 Aluminum Pigmented Coating per Hi-Shear Spec. 294	Cetyl alcohol lube per Hi-Shear	White spot on outside diameter	
Washer		HI-KOTE™ 1 NC Aluminum Pigmented Coating per Hi-Shear Spec. 294	Spec. 305		

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

② Washer = 6Al-4V Titanium alloy per AMS4928 or AMS4967.

HEAT TREAT: Pin = 160,000 psi tensile minimum and 95,000 psi shear minimum for sizes up to 3/4.

② 150,000 psi tensile minimum and 90,000 psi shear minimum for 7/8 and larger.

Washer = 160,000 psi tensile minimum and 95,000 psi shear minimum.

CODE: First dash number indicates nominal diameter in 1/32nds of the pin which HPL1422 oversize pin replaces.

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

See "Finish" note for explanation of code letters.

	Pin-Washer Assembly Part Number <u>HPL1422 NKM 18 NAPW 34</u>				
	— 34/16 Maximum Grip Length — Washer finish code — 18/32 or 9/16 Nominal Diameter Pin				
	Finish Code				
Pin Basic Part Number					

DRAWING NUMBER