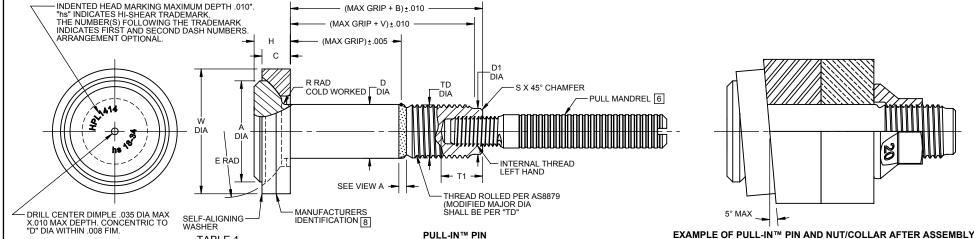
2600 SKYPARK DRIVE, TORRANCE, CALIFORNIA 90509 U.S.A.

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

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



EXAMPLE OF PULL-IN™ PIN AND NUT/COLLAR AFTER ASSEMBLY

	TABLE 1																			
FIRST PIN DASH NOM NO. DIA		M DIA	B REF	D DIA	TD DIA	D1 DIA		н	S CHAMFER REF	V REF I	E	- 12/11	C REF	THREAD MODIFIED	INTERNAL THREAD LEFT HAND 9			DOUBLE SHEAR	TENSION POUNDS	TENSION- TENSION FATIGUE
								MAX			RAD				T1 MAX	THREAD SIZE UNJF-2B	LOAD POUNDS MAX	POUNDS MINIMUM	MINIMUM	POUNDS MAX
18	9/16	1.051	.845	.5615 .5605	.5537 .5500	.4783 .4764	1.307 1.300	.382	.020	.701	.688	.040 .025	.303	.5625-18 UNJF-3A	.465	5/16-SP	11,500	62,137	44,321	15,700
20	5/8	1.130	.935	.6240 .6230	.6165 .6120	.5413 .5394	1.437 1.430	.405	.020	.733	.750	.040 .025	.319	.6250-18 UNJF-3A	.520	3/8-SP	14,200	76,727	49,458	16,816
24	3/4	1.291	1.125	.7490 .7480	.7415 .7370	.6575 .6555	1.689 1.681	.547	.020	.927	.875	.045 .030	.358	.7500-16 UNJF-3A	.625	7/16-SP	19,109	110,410	81,469	28,500
28	7/8	1.449	1.315	.8740 .8730	.8663 .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	150,300	112,121	38,210
32	1	1.602	1.500	.9990 .9980	.9913 .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	196,300	132,100	48,900

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.

TABLE 1

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.

5. Use HPL1424 for oversize replacement.

6 Mandrel is sold separately.

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

8 One line indicates Blanc Aero Industries, France as manufacturer.

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

To 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.

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



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

DRAWN BY	DATE	TITLE
ASSYSTEM	2012-05-21	PULL-IN™ PIN SELF-ALIGNING TENSION HEAD
APPROVED	DATE	INTERFERENCE FIT
J.GOYER	2012-05-21	NICKEL BASE ALLOY (INCONEL 718) 1/16 GRIP VARIATION
REVISION	DATE	DRAWING NUMBER

M.BEARD 2017-10-26

HPL1414 1 OF 2



FINISH TABLE

Part	Finish, Lube, ID Code	Finish	Lube	Idenitfication	
Inconel			Cetyl alcohol lube per Hi-Shear	Blue 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 = Nickel base alloy (Inconel 718) per AMS5662 or AMS5962.

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

HEAT TREAT: Pin = 220,000 psi tensile minimum and 125,000 psi shear minimum.

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

CODE: First dash number indicates nominal diameter in 1/32nds. Second dash number indicates maximum grip in 1/16ths. See "Finish" note for explanation of code letters.

HOW TO ORDER Pin-Washer Assembly Part Number ② EXAMPLE: HPL1414 NSU 18 NAPW 34 └─34/16 Maximum Grip Length - 18/32 or 9/16 Nominal Diameter Pin Finish Code Pin Basic Part Number