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

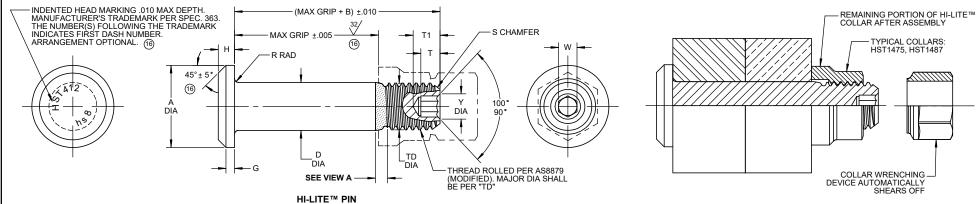
HI-SHEAR Corporation, USA a LISI AEROSPACE Company

Design Holder

CAGE No. 73197

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



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FIRST	PIN			D DIA						,		SOCKET				DOUBLE	TENSION
DASH NO.	NOM DIA	A DIA	B REF	WITHOUT COATING OR SOLID FILM	AFTER COATING OR SOLID FILM	TD DIA	G REF	Ħ	R RAD	S CHAMFER REF	THREAD MODIFIED	W HEX	T DEPTH MIN	T1 DEPTH MAX	Y DIA	SHEAR POUNDS MINIMUM	POUNDS MINIMUM
5							NO	DTE:USE	HST112(()6-()							
6	7/32	.390 .370	.300	.2182 .2177	.2182 .2172	.1840 .1810	.035	.074 .064	.025 .015	1/32 x 37°	.1900-32 UNJF-3A	.0806 .0791	.080	.135	.119 .104	7,100	3,180
8	9/32	.460 .435	.330	.2807 .2802	.2807 .2797	.2440 .2410	.045	.090 .080	.025 .015	1/32 x 37°	.2500-28 UNJF-3A	.0967 .0947	.090	.160	.142 .122	11,800	5,820
10	11/32	.520 .490	.390	.3432 .3427	.3432 .3422	.3060 .3020	.055	.112 .102	.030 .020	3/64 x 37°	.3125-24 UNJF-3A	.1295 .1270	.110	.200	.180 .160	17,600	9,200
12	13/32	.620 .590	.430	.4057 .4052	.4057 .4047	.3680 .3640	.075	.140 .130	.030 .020	3/64 x 37°	.3750-24 UNJF-3A	.1617 .1582	.140	.235	.217 .197	24,600	14,000
14	15/32	.695 .660	.510	.4682 .4677	.4682 .4672	.4310 .4260	.095	.160 .150	.030 .020	3/64 x 37°	.4375-20 UNJF-3A	.1930 .1895	.150	.246	.253 .233	32,700	18,900
16	17/32	.790 755	.610	.5307 .5302	.5307 .5297	.4930 .4880	.095	.188 .178	.030 .020	3/64 x 37°	.5000-20 UNJF-3A	.2242 .2207	.170	.275	.289 .269	42,000	25,600
18	19/32	.900 .865	.710	.5927 .5922	.5927 .5917	.5550 .5500	.125	.210 .200	.040 .025	1/16 x 37°	.5625-18 UNJF-3A	.2555 .2520	.200	.329	.326 .306	52,400	32,400
20	21/32	.970 .935	.790	.6552 .6547	.6552 .6542	.6180 .6120	.140	.238 .228	.040 .025	1/16 x 37°	.6250-18 UNJF-3A	.2555 .2520	.210	.339	.326 .306	64,100	41,000
24	25/32	1.185 1.145	1.030	.7802 .7797	.7802 .7792	.7430 .7370	.200	.335 .320	.045 .030	1/16 x 37°	.7500-16 UNJF-3A	.3185 .3150	.290	.452	.398 .378	90,900	59,500
28	29/32	1.375 1.335	1.170	.9052 .9047	.9052 .9042	.8680 .8610	.250	.385 .370	.050 .035	5/64 x 37°	.8750-14 UNJF-3A	.3820 .3780	.340	.525	.471 .451	122,000	81,500
32	1-1/32	1.550 1.510	1.315	1.0302 1.0297	1.0302 1.0292	.9930 .9860	.300	.435 .420	.060 .045	5/64 x 37°	1.0000-12 UNJF-3A	.5100 .5040	.460	.682	.618 .598	158,000	106,000

HI-LITE™ PIN AND COLLAR AFTER ASSEMBLY

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



VIEW A

HI-LITE™ THREAD TRANSITION AREA SEE SPECIFICATION FOR INSPECTION

"HI-LITE", "HST", AND "HI-KOTE", ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY	DATE	TITLE
J.OBISPO	1992-01-16	HI-LITE™ PIN
		PROTRUDING TENSION HEAD
APPROVED	DATE	TITANIUM
A.BROWN	1992-01-16	1117(1410)
A.BROWN	1992-01-10	1/16 GRIP VARIATION, 1/32 OVERSIZE
REVISION	DATE	DRAWING NUMBER

DATE DRAWING NUMBER K. PHAM 2022-05-10

HST412

1 OF 2

GENERAL NOTES: 1. Concentricity: "A" diameter to "D" diameter within .010 FIM.

Dimensions are in inches and to be met after finish.

3. Surface texture per ASME B46.1.

4. Hole preparation per NAS618.

[5] Maximum "D" diameter may be increased by .0002 to allow for solid film or aluminum coating application.

6 Broach petals removed.

7. Oversize replacement pin for HST12 and HST112.

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

After September 30th of 2015. HI-KOTE™ 4 coating per HS397 will be replaced by HI-KOTE™ 4 NC coating per HS397.

MATERIAL: 6AL-4V titanium alloy per AMS4928 or AMS4967.

HEAT TREAT: 160,000 psi tensile minimum (95,000 psi shear minimum for sizes up to 3/4;

90,000 psi shear minimum for 7/8 and larger).

FINISH: HST412-()-() = Cetyl alcohol lube per Hi-Shear Spec. 305.

HST412AB()-() = I.V.D. aluminum coating per BAC5315 with conversion coating (.0003-.0005 thick) per MIL-DTL-5541, Class 1A and cetyl alcohol lube per Hi-Shear Spec. 305.

(ii) 8 HST412AG()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

(ii) [8] HST412AP()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294. and cetyl alcohol lube per Hi-Shear Spec. 305.

(ii) 8 HST412AZ()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. HST412BJ()-() = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, and cetyl alcohol lube per Hi-Shear Spec. 305.

[6] HST412CT()-() = Color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. HST412CZ()-() = Color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

(ii) [8] HST412GD()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, and cetyl alcohol lube per Hi-Shear Spec. 305.

9 HST412HK()-() = HI-KOTE™ 4 NC aluminum coating per Hi-Shear Spec. 397.

| HST412K()-() = Solid film lube per "Lubeco" 905.

6 HST412MA()-() = Solid film lube per KalGard RA.

HST412RP()-() = Phosphate fluoride treat with color orange on thread end, and cetyl alcohol lube lube per Hi-Shear Spec. 305.

HST412RS()-() = Phosphate fluoride treat, solid film lube per AS5272, Type I, and color orange on thread end.

= Phosphate fluoride treat. HI-KOTE™ 2 solid film lube per Hi-Shear Spec, 292. HST412RV()-() and cetyl alcohol lube per Hi-Shear Spec. 305.

(6) [8] HST412SU()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color light blue on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

HST412TB()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol lube per Hi-Shear Spec. 305.

HST412UV()-() = Anodize per Hi-Shear Spec. 306, Type II, HI-KOTE™ 2 solid film lube and cetyl alcohol lube per Hi-Shear Spec. 305.

HST412WF()-() = Anodize per Hi-Shear Spec. 306, Type I, color blue, with color black on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

= HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292 on threads only, with HST412YW()-() color white on thread end and cetyl alcohol lube per Hi-Shear Spec. 305.

HST412NKJ()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
HST412NKK()-() = Sulfuric acid anodizing per ISO8080 and HI-KOTE™ 1 NC aluminum pigmented

coating per Hi-Shear Spec. 294 on threads only, with color silver on thread end, and cetyl alcohol lube per HI-Shear Spec. 305.

HST412NKL()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads only, with color silver on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

HST412NAP()-() = HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, cetyl alcohol lube per Hi-Shear Spec. 305.

SPECIFICATION: HI-LITE™ Product Specification 380.

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

which HST412 oversize pin replaces.

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

See Finish note for explanation of code letters.

HOW TO ORDER

EXAMPLE: Pin Part Number

HST412AP8-8 8/16 or 1/2 Maximum Grip Length Replaces 8/32 or 1/4 Nominal Diameter Pin Finish Code Pin Basic Part Number

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DRAWING NUMBER