FIRST

DASH

NO.

5

6

8

10

12 25/64

14

16

PIN

NOM

DIA

13/64

17/64

21/64

29/64

33/64

DIA

.3813

.3765

.5066

.5018

.6335

.6287

.7604

.7556

.8884

.8812

.0139

.0068

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

D DIA

WITHOUT WITH COATING COATING

OR SOLID OR SOLID

.3276 .3276

.2026

.2016

.2651

.3266

.3901

3891

.4526

.4516

.5151

.2026

.2021

.2651

2646 .2641

3271

.3901

3896

4526

.4521

.5151

5146

В

REF

.300

.330

.390

.430

.510

.610

TD

DIA

.1840

.1810

.2440

.2410

.3060

.3020

.3680

.3640

.4310

.4260

.4930

.4880

.009

.010

1828

1798

.2093

2063

.050

.040

.050

.040

.022

.022

3/64 x 45°

3/64 x 45°

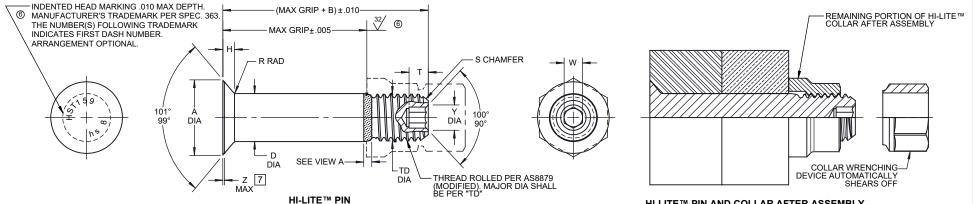
HI-SHEAR Corporation, USA a LISI AEROSPACE Company

Design Holder

CAGE No. 73197

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HI-LITE™ PIN AND COLLAR AFTER ASSEMBLY

7 1 SOCKET **DOUBLE** S CHAMFER Н R Ζ THREAD SHEAR **TENSION** W **POUNDS** POUNDS REF RAD MAX **MODIFIED** REF HEX DEPTH DIA MINIMUM MINIMUM NOTE: USE HST59()6-() .030 .1900-32 UNJF-3A .0806 .100 .119 .005 .015 1/32 x 45° 8,100 4,350 .0730 .020 .0791 .080 .104 .1013 .030 .2500-28 UNJF-3A .0967 .110 .142 .006 .015 1/32 x 45° 13,800 7,750 .0993 .0947 .090 .122 .020 .1283 .040 3125-24 1295 .130 .180 .007 .015 3/64 x 45° 21,100 12,300 1263 .030 UNJF-3A 1270 .110 .160 .1553 .040 .3750-24 1617 .160 .217 .008 .015 3/64 x 45° 30,000 19,100 ÜNJF-3A 1533 .030 1582 .140 .197

UNJF-3A

.5000-20 UNJF-3A

1930

1895

2242

2207

.190

.170

.220

.200

.253

.233

.289

.269

40,300

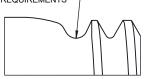
52,500

25,800

34,300

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

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



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.F.OBISPO	1996-10-17	HI-LITE™ PIN
		100° FLUSH MS24694 TENSION HEAD
APPROVED	DATE	NICKEL BASE ALLOY (INCONEL 718)
MC	1996-10-21	1/16 GRIP VARIATION, 1/64 OVERSIZE
REVISION	DATE	DRAWING NUMBER

A.CHAE 2022-09-29

HST159

1 OF 2

GENERAL NOTES: 1 Head edge out of roundness shall not exceed "F" Concentricity: Conical surface of head to "D" diameter within .005 FIM. "H" is dimensioned from maximum "D" diameter. Dimensions are in inches and to be met after finish. 5. Surface texture per ASME B46.1. 6. Hole preparation per NAS618. 7 Curved or flat edge manufacturer's option. 8 Broach petals removed. ⑥ 9 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 UK and European Union. MATERIAL: Nickel base alloy per AMS5662. HEAT TREAT: 125,000 psi shear minimum. **⑥ FINISH:** HST159-()-() = Passivate per AMS2700, Method 1, Type 8, Class 1, and cetyl alcohol lube per Hi-Shear Spec. 305. (® 9 HST159AC()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294 with color code green on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. (a) ¶ HST159AG()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294 with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. ⑤ 9 HST159AP()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305. HST159DU()-() = Solid film lube per AS5272, Type I. @ 9 HST159GD()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating on threads only per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305. ⑤ 9 HST159GM()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on threads (no overspray on the shank is allowed) and top of head only (.005 max overspray on the head bearing surface permissible) with color white on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. 8 HST159MA()-() = Solid film lube per Kalgard RA. HST159TB()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol lube per Hi-Shear Spec. 305. HST159TP()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292 with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. HST159HK()-() = HI-KOTE™ 4 NC aluminum coating per Hi-Shear Spec. 397. ® HST159NAP()-() = HI-KOTE™ 1 NC aluminum coating per Hi-Shear Spec. 294, and 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 HST159 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 HST159AP8-8

8/16 or 1/2 Maximum Grip Length
Replaces 8/32 or 1/4 Nominal Diameter Pin

└─ Finish Code _ Pin Basic Part Number

2 OF 2