

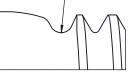
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FIRST	PIN			D	DIA						s			SOCKET	-	DOUBLE	TENSION
DASH NO.	NOM DIA	<b>A</b> DIA	<b>B</b> REF	WITHOUT COATING OR SOLID FILM	OR SOLID FILM	<b>TD</b> DIA	F REF	н	<b>R</b> RAD	Z MAX	CHAMFER REF	THREAD MODIFIED	<b>W</b> HEX	T DEPTH	<b>Y</b> DIA	SHEAR POUNDS MINIMUM	POUNDS
5	5/32	.3304 .3256	.280	.1635 .1630	.1635 .1625	.1595 .1570	.004	.0700 .0680	.025 .015	.012	1/32 x 45°	.1640-32 UNJC-3A	.0801 .0791	.100 .080	8	5,280	2,940
6	3/16	.3813 .3765	.290	.1895 .1890	.1895 .1885	.1840 .1810	.005	.0805 .0785	.030 .020	.015	1/32 x 45°	.1900-32 UNJF-3A	.0806 .0791	.100 .080	.119 .104	7,060	4,350
8	1/4	.5066 .5018	.320	.2495 .2490	.2495 .2485	.2440 .2410	.006	.1080 .1060	.030 .020	.015	1/32 x 45°	.2500-28 UNJF-3A	.0967 .0947	.110 .090	.142 .122	12,260	7,750
10	5/16	.6335 .6287	.380	.3120 .3115	.3120 .3110	.3060 .3020	.007	.1350 .1330	.040 .030	.015	3/64 x 45°	.3125-24 UNJF-3A	.1295 .1270	.130 .110	.180 .160	19,160	12,300
12	3/8	.7604 .7556	.420	.3745 .3740	.3745 .3735	.3680 .3640	.008	.1620 .1600	.040 .030	.015	3/64 x 45°	.3700-24 UNJF-3A	.1617 .1582	.160 .140	.217 .197	27,600	19,100
14	7/16	.8884 .8812	.500	.4370 .4365	.4370 .4360	.4310 .4260	.009	.1895 .1865	.050 .040	.022	3/64 x 45°	.4375-20 UNJF-3A	.1930 .1895	.190 .170	.253 .233	37,500	25,800
16	1/2	1.0139 1.0068	.600	.4995 .4990	.4995 .4985	.4930 .4880	.010	.2160 .2130	.050 .040	.022	3/64 x 45°	.5000-20 UNJF-3A	.2242 .2207	.220 .200	.289 .269	49,100	34,300
18	9/16	1.1408 1.1337	.700	.5615 .5610	.5615 .5605	.5550 .5500	.010	.2430 .2400	.050 .040	.022	1/16 x 45°	.5625-18 UNJF-3A	.2555 .2520	.260 .240	.326 .306	62,100	43,500
20	5/8	1.2723 1.2651	.780	.6240 .6235	.6240 .6230	.6180 .6120	.010	.2720 .2690	.050 .040	.025	1/16 x 45°	.6250-18 UNJF-3A	.2555 .2520	.260 .240	.326 .306	76,700	54,600
24	3/4	1.5308 1.5236	1.020	.7490 .7485	.7490 .7480	.7430 .7370	.012	.3280 .3250	.050 .040	.025	1/16 x 45°	.7500-16 UNJF-3A	.3185 .3150	.330 .300	.398 .378	110,400	79,200
28	7/8	1.7845 1.7773	1.160	.8740 .8735	.8740 .8730	.8680 .8610	.014	.3820 .3790	.050 .040	.025	5/64 x 45°	.8750-14 UNJF-3A	.3820 .3780	.400 .370	.471 .451	150,300	117,000
32	1	2.0405 2.0310	1.305	.9990 .9985	.9990 .9980	.9930 .9860	.014	.4370 .4330	.050 .040	.025	5/64 x 45°	1.000-12 UNJF-3A	.5100 .5040	.520 .490	.618 .598	196,300	143,000

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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	™™E HI-LITE™ PIN						
DEPT. 104	1994-03-11							
		100° FLUSH MS24694 TENSION HEAD						
APPROVED	DATE	NICKEL BASE ALLOY (INCONEL 718)						
E.E.B.	1994-03-16	1/16 GRIP VARIATION						
REVISION	DATE	DRAWING NUMBER						
15	A.CHAE 2022-09-29	HST59 1 OF 2						

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GENERAL NOTES:       1       Head edge out of roundness shall not exceed "F".         2. Concentricity: Conical surface of head to "D" diameter within .003 FIM.         3. "H" is dimensioned from maximum "D" diameter.         4. 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 Evidence of broken edge across points.         9 Broach petals removed.	CODE:	HI-LITE <sup>™</sup> Product Specification 380. 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. Pin Part Number HST59AP8-8
<ul> <li>10. Use HST159 for oversize replacement.</li> <li>(1) I1After 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.</li> </ul>		8/16 or 1/2 Maximum Grip Length 8/32 or 1/4 Nominal Diameter Pin Finish Code Pin Basic Part Number
MATERIAL: Nickel base alloy per AMS5662.		
HEAT TREAT: 125,000 psi shear minimum.		
<ul> <li>(*) FINISH: HST59-()-() = Passivate per AMS2700, Method 1, Type 8, Class 1, and cetyl alcohol lube per Hi-Shear Spec. 305.</li> <li>(*) [1] HST59AC()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color code green on thread end, and cetyl alcohol lube per Hi-Shear Spec. 294, and with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 294, and with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 294, and with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 294, and with color code orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 294, and cetyl alcohol lube per Hi-Shear Spec. 305.</li> <li>(*) [1] HST59AP()-() = 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.</li> <li>(*) [1] HST59AP()-() = 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.</li> <li>(*) [1] HST59GD()-() = 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.</li> <li>(*) [1] HST59GM()-() = 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.</li> <li>(*) [1] HST59GM()-() = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.</li> <li>(*) [1] HST59MA()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 305.</li> <li>(*) [2] HST59MA()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 292, and cetyl alcohol lube per Hi-Shear Spec. 305.</li> <li>(*) [3] HST59NKJ()-() = HI-KOTE™ 2 solid film lube per Hi-Shear Spec. 305.</li> <li>(*) HST59NKJ()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 305.</li> <li>(*) HST59NKJ()-() = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 305.</li> <li>(</li></ul>		

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