

TORSION DESIGN:

DRAWING #

*****: ***** ** *****: *****			
Matl. Code	3	** Modulus of Elast.	30,000,000
Wire Size	0.375	** Mean Dia.	1.375
I.D.	1	** Index	3.67
O.D.	0	** SMI Toler. Dia. -+	0.008
Rate ("lbs/deg)	0	** Rate ("lbs/deg)	2496.89
Active Coils	16	** Active Coils	0.00
Length O/C	0	** Calc Lgth O/C	6.375
Initial Wking Defl.	0	** Load @ Init. Defl.	0.000
Final Wking Defl.	0.125	** Load @ Wking Defl	312.112
Mtl/Spq (ends)	14	** Uncorr. Stress @ Defl	60,286
*****: ***** ** *****: *****			
		** Corr. Stress @ Defl	87,353
Bar Length	83.12	** *****: *****	
Wt/Spq	2.598	** *****: *****	

Rate = lbs/ 360deg Rotation

Load does not take the arm length into consideration.