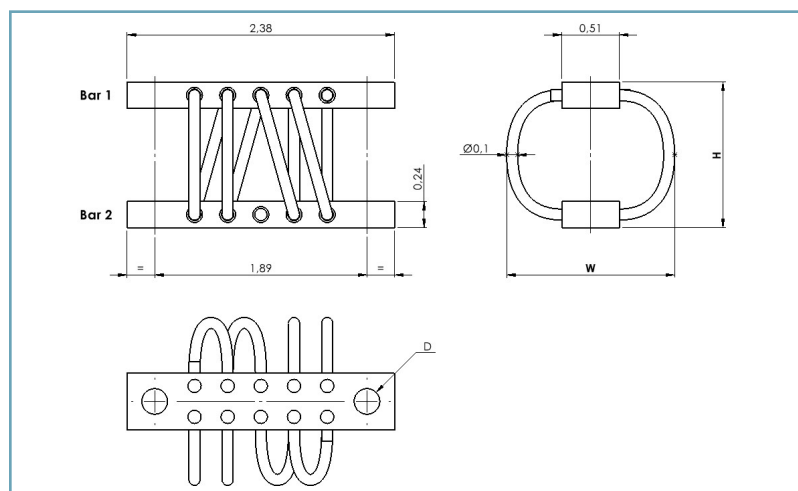


WIRE ROPE ISOLATOR

series HH03



- All metal multidirectional anti-vibration/shock mounts
- Exceptional reliability and long life
- High damping
- No aging
- Corrosion resistant
- Unequalled temperature range: -290° F to 570° F (-180° C to 300° C)
- Great adaptability/versatility

Specials on request
(material size and number of loops, etc.)

Dimensions are in inches. For reference only

SERIES
Materials and finishes (meets RoHS requirements)
HH03
Cable: stainless steel
Retainer bars: aluminum alloy/ SurTec
Other materials on request

MODEL		height H (in)	width W (in)	weight (lbs)
-304		0.91	1.1	0.07
-404		0.98	1.2	0.07
-504		1.1	1.3	0.07
-604		1.3	1.5	0.07
-704		1.4	1.6	0.07
-804		1.5	1.7	0.07
-904		1.6	1.8	0.07
-1004		1.7	1.9	0.07

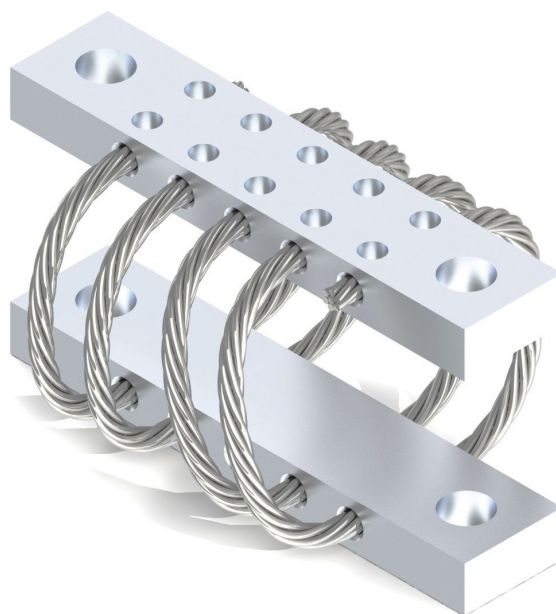
INTERFACES	Bar 1		
fixtures holes D	Ø 0.23 in. through holes	Ø 0.23 in. through holes countersunk 82°	10-32
Bar 2			
Ø 0.23 in. through holes	T2	not standard	not standard
Ø 0.23 in. through holes countersunk 82°	TC	C2	not standard
10-32	TI	CI	I2

H	H	0	3	-	3	0	4	C	I
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SERIES: HH03
Half-Helical mount
from the HH03 series

MODEL: -304
height: 0.91 in.
width: 1.1 in.
weight: 0.07 lbs.
loops: series standard
is 04 loops

INTERFACE: CI
Ø0.23 in. through
holes countersunk
82° in bar 1,
10-32 in bar 2



WIRE ROPE ISOLATOR

series HH03

The graph illustrates the relationship between Load (F) and Deflection (d) for the HH03 Series. The tension curve (labeled 2) is steeper and starts at a higher load, while the compression curve (labeled 1) is less steep and starts at a lower load. Both curves show a non-linear relationship. Diagrams of the device in tension and compression states are shown, with dimensions d, d/2, and d/2 indicated.

COMPRESSION AND TENSION										
HH03 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	
1. Max Static	Compression	F lbf	13	11	9.0	6.3	5.4	4.9	4.3	3.6
		d in	0.06	0.07	0.08	0.11	0.13	0.14	0.16	0.17
		F lbf	40	34	27	19	16	14	13	11
		d in	0.35	0.39	0.51	0.71	0.79	0.87	0.94	1.1
2. Max Shock	Compression	2a in	0.04	0.05	0.06	0.08	0.09	0.10	0.11	0.12
		f Hz	10.7	9.8	8.8	7.7	7.2	7.0	6.9	6.3
		F lbf	13	11	9.0	6.3	5.4	4.9	4.3	3.6
		d in	0.04	0.04	0.06	0.07	0.08	0.09	0.10	0.11
3. Max Vibration	Tension	F lbf	110	90	71	51	43	39	35	29
		d in	0.12	0.12	0.16	0.24	0.28	0.31	0.35	0.39
		2a in	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.05
		f Hz	21.4	19.5	17.4	15.0	13.9	13.3	12.5	11.9

The graph plots Load (F) on the y-axis against Deflection (d) on the x-axis. Two curves are shown: a steeper curve for 'tension/roll 45°' and a shallower curve for 'compression/roll 45°'. Both curves are marked with points 1 and 2. To the right, two diagrams illustrate the device: the top one under tension with force F applied upwards at distance d, and the bottom one under compression with force F applied downwards at distance d/2.

COMPRESSION/ROLL 45° - TENSION/ROLL 45°										
HH03 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004	
1. Max Static	Compression/roll 45°	F lbf	10	8.5	6.7	4.7	4.0	3.6	3.1	2.7
		d in	0.08	0.09	0.12	0.16	0.19	0.20	0.22	0.25
	2. Max Shock	F lbf	25	21	170	12	10	9.0	7.9	6.7
		d in	0.51	0.63	0.79	1.1	1.2	1.3	1.4	1.7
3. Max Vibration	Compression/roll 45°	2a in	0.06	0.07	0.09	0.12	0.13	0.15	0.16	0.18
		f Hz	9.2	8.5	7.7	6.7	6.3	6.0	5.9	5.4
	Tension/Roll 45°	F lbf	10	8.5	6.7	4.7	4.0	3.6	3.1	2.7
		d in	0.05	0.06	0.07	0.09	0.11	0.12	0.14	0.15
1. Max Static	Tension/Roll 45°	F lbf	52	44	35	25	21	19	17	14
		d in	0.12	0.16	0.20	0.28	0.31	0.35	0.43	0.47
	2. Max Shock	2a in	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05
		f Hz	19.0	17.3	15.4	13.3	12.4	11.9	11.1	10.6
3. Max Vibration	Tension/Roll 45°	2a in	0.02	0.02	0.02	0.03	0.04	0.04	0.05	0.05
		f Hz	19.0	17.3	15.4	13.3	12.4	11.9	11.1	10.6

The figure shows a graph of Load (F) on the y-axis versus Deflection (d) on the x-axis. A curve starts at point 1 (labeled 'shear') and ends at point 2 (labeled 'roll'). Two diagrams illustrate the loading: one for shear (horizontal force F) and one for roll (vertical force F). Dimensions d and d/2 are indicated.

SHEAR OR ROLL											
HH03 Series	Model	-304	-404	-504	-604	-704	-804	-904	-1004		
1. Max Static	Shear or Roll	F lbf	6.7	5.6	4.5	3.1	2.7	2.5	2.0	1.8	
		d in	0.09	0.11	0.14	0.20	0.23	0.25	0.27	0.31	
2. Max Shock		F lbf	27	22	17	12	9.9	9.0	8.1	6.7	
		d in	0.24	0.31	0.39	0.51	0.59	0.67	0.75	0.83	
3. Max Vibration		2a in	0.03	0.04	0.04	0.06	0.07	0.07	0.08	0.09	
		f Hz	13.7	12.5	11.2	9.7	9.0	8.7	8.3	7.8	
1. Max static load (F) with corresponding deflection (d)											
2. Max shock load (F) with corresponding deflection (d)											
3. Uncoupled resonant frequency (f) under max static loading 1 and max peak to peak sinusoidal vibration input (2a)											
*IMPORTANT: Performance characteristics are given here for reference only. They can be increased under specific conditions. Contact Socitec-US											

TYPICAL SHOCK/VIBRATION SPECIFICATIONS:

Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810
Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 9533
Marine	GAM EG13C, IT25-21/96-31/15-86, MIL-S-167, MIL-S-901, STANAG 042, BV 043.73, BV 044
Others	GAM EMB1, GAM EMBT4, DEF STAN 07-55, IEC 571, FINABEL 2C

NOTE: Isolator data subject to change without notice

12/09/25



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