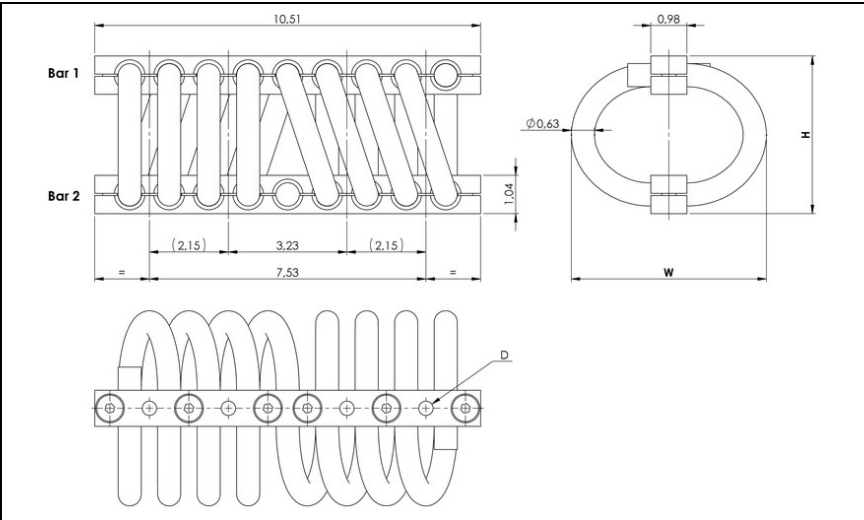


# WIRE ROPE ISOLATORS: 'HELICAL'

DEFINITION  
**series FH60**



- All metal multidirectional anti-vibration/shock mounts
  - Exceptional reliability and long life
  - High damping
  - No aging
  - Corrosion resistant
  - Unequalled temperature range : -180°C to +300°C / -290F to 570 F
  - Great adaptability/versatility
- Specials on request**  
(material size and number of loops, etc.)

Dimensions are in inches. For reference only

| SERIES                                                        |
|---------------------------------------------------------------|
| Materials and finishes<br>(meets RoHS requirements)           |
| <b>FH60</b>                                                   |
| <b>Cable:</b><br>stainless steel<br>galvanized available: CBG |
| <b>Retainer bars:</b><br>aluminium alloy/<br>SurTec           |
| <b>Screws:</b><br>alloy steel/ zinc plate                     |
| <b>Inserts:</b><br>stainless steel                            |
| All stainless steel: CBSS                                     |
| Other materials on request                                    |

| MODEL | height<br>H(in) | width<br>W(in) | weight<br>(lbs) |
|-------|-----------------|----------------|-----------------|
| -20   | 3.5             | 4.0            | 6.0             |
| -24   | 3.8             | 4.4            | 6.5             |
| -28   | 3.9             | 4.7            | 6.8             |
| -32   | 4.3             | 5.3            | 7.5             |
| -36   | 4.7             | 6.0            | 8.3             |
| -44   | 5.0             | 6.5            | 9.0             |
| -46   | 5.3             | 7.0            | 9.5             |
| -48   | 5.7             | 7.3            | 10              |

| INTERFACES                               |                         |                                          |                  |
|------------------------------------------|-------------------------|------------------------------------------|------------------|
| fixtures holes D                         | Bar 1                   |                                          |                  |
|                                          | Ø 0.43 in through holes | Ø 0.43 in through holes counter-sunk 82° | 3/8 - 24 inserts |
| Bar 2                                    |                         |                                          |                  |
| Ø 0.43 in through holes                  | T2                      | not standard                             | not standard     |
| Ø 0.43 in through holes counter-sunk 82° | TC                      | C2                                       | not standard     |
| 3/8 - 24 inserts                         | TI                      | CI                                       | I2               |

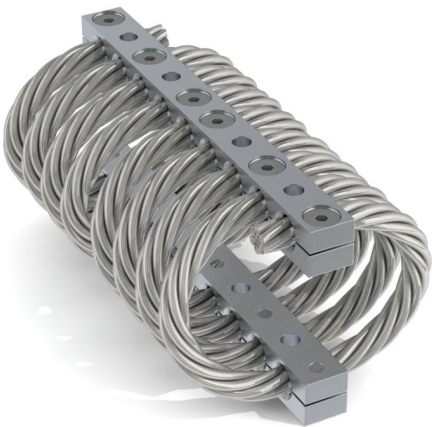
|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| F | H | 6 | 0 | - | 2 | 0 | 0 | 8 | C | I |
|---|---|---|---|---|---|---|---|---|---|---|

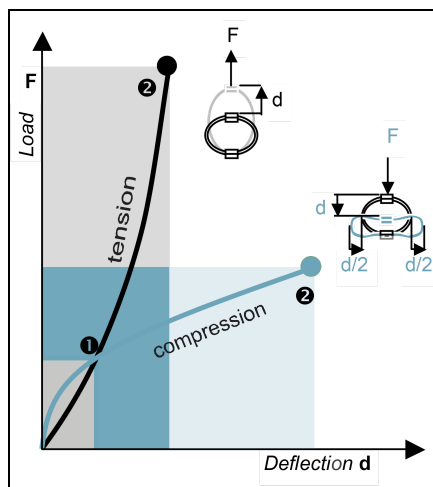
**SERIE:** FH60  
'Helical' mount from the FH60 series

**MODEL:** -20  
height: 3.5in  
width: 4.0in  
weight: 6.0lbs

**LOOPS:** 08  
Serie standard is 08 loops

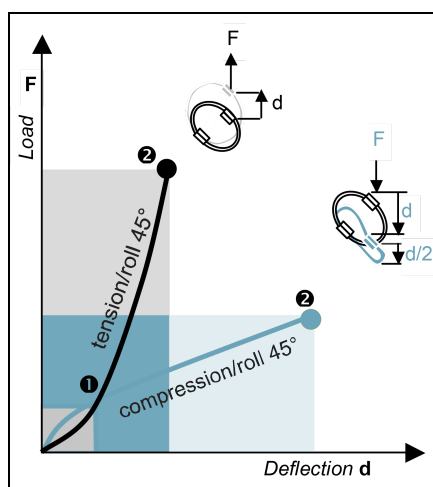
**INTERFACE:** CI  
Ø 0.43 in through holes counter-sunk 82° in bar 1,  
3/8 - 24 inserts in bar 2





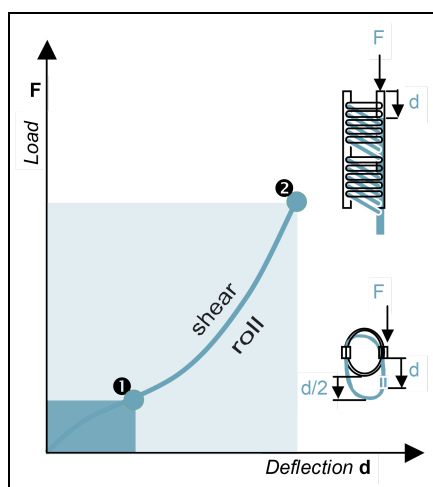
## COMPRESSION AND TENSION

| FH60 Series     | Model | -20   | -24   | -28   | -32   | -36  | -44  | -46  | -48  |
|-----------------|-------|-------|-------|-------|-------|------|------|------|------|
| 1.Max Static    | F lbf | 1800  | 1500  | 1300  | 1000  | 780  | 660  | 570  | 540  |
|                 | d in  | 0.24  | 0.28  | 0.31  | 0.37  | 0.43 | 0.48 | 0.54 | 0.61 |
| 2.Max Shock     | F lbf | 5500  | 4500  | 3900  | 3000  | 2300 | 2000 | 1700 | 1600 |
|                 | d in  | 1.3   | 1.5   | 1.7   | 2.0   | 2.3  | 2.6  | 2.9  | 3.3  |
| 3.Max Vibration | 2a in | 0.14  | 0.17  | 0.18  | 0.22  | 0.26 | 0.29 | 0.32 | 0.36 |
|                 | f Hz  | 8.1   | 7.4   | 7.0   | 6.4   | 5.9  | 5.6  | 5.3  | 5.0  |
| 1.Max Static    | F lbf | 1800  | 1500  | 1300  | 1000  | 780  | 660  | 570  | 540  |
|                 | d in  | 0.19  | 0.23  | 0.26  | 0.32  | 0.39 | 0.45 | 0.50 | 0.53 |
| 2.Max Shock     | F lbf | 19000 | 16000 | 14000 | 12000 | 9400 | 8100 | 7100 | 6200 |
|                 | d in  | 0.84  | 1.0   | 1.2   | 1.6   | 2.0  | 2.3  | 2.6  | 2.6  |
| 3.Max Vibration | 2a in | 0.09  | 0.11  | 0.14  | 0.17  | 0.22 | 0.26 | 0.29 | 0.29 |
|                 | f Hz  | 10.6  | 9.5   | 8.8   | 7.8   | 7.0  | 6.6  | 6.2  | 6.1  |



## COMPRESSION/ROLL 45° - TENSION/ROLL 45°

| FH60 Series     | Model | -20  | -24  | -28  | -32  | -36  | -44  | -46  | -48  |
|-----------------|-------|------|------|------|------|------|------|------|------|
| 1.Max Static    | F lbf | 1400 | 1100 | 960  | 750  | 590  | 500  | 430  | 400  |
|                 | d in  | 0.35 | 0.41 | 0.43 | 0.51 | 0.70 | 0.78 | 0.86 | 0.84 |
| 2.Max Shock     | F lbf | 3600 | 3000 | 2600 | 2000 | 1600 | 1300 | 1200 | 1100 |
|                 | d in  | 1.9  | 2.3  | 2.5  | 3.0  | 3.5  | 3.9  | 4.4  | 4.9  |
| 3.Max Vibration | 2a in | 0.21 | 0.25 | 0.27 | 0.33 | 0.39 | 0.43 | 0.48 | 0.54 |
|                 | f Hz  | 6.0  | 5.5  | 5.3  | 4.8  | 4.4  | 4.1  | 3.9  | 3.7  |
| 1.Max Static    | F lbf | 1400 | 1100 | 960  | 750  | 590  | 500  | 430  | 400  |
|                 | d in  | 0.23 | 0.29 | 0.32 | 0.36 | 0.48 | 0.56 | 0.65 | 0.70 |
| 2.Max Shock     | F lbf | 9400 | 8000 | 7100 | 5800 | 4700 | 4100 | 3600 | 3100 |
|                 | d in  | 0.95 | 1.2  | 1.4  | 1.8  | 2.3  | 2.7  | 3.0  | 3.0  |
| 3.Max Vibration | 2a in | 0.11 | 0.13 | 0.16 | 0.20 | 0.25 | 0.29 | 0.33 | 0.33 |
|                 | f Hz  | 8.5  | 7.7  | 7.1  | 6.3  | 5.7  | 5.3  | 5.0  | 5.0  |



## SHEAR OR ROLL

| FH60 Series     | Model | -20  | -24  | -28  | -32  | -36  | -44  | -46  | -48  |
|-----------------|-------|------|------|------|------|------|------|------|------|
| 1.Max Static    | F lbf | 910  | 750  | 640  | 500  | 390  | 330  | 280  | 270  |
|                 | d in  | 0.27 | 0.33 | 0.38 | 0.48 | 0.60 | 0.69 | 0.78 | 0.87 |
| 2.Max Shock     | F lbf | 5400 | 4400 | 3900 | 3100 | 2400 | 2100 | 1800 | 1500 |
|                 | d in  | 1.2  | 1.5  | 1.7  | 2.1  | 2.6  | 3.0  | 3.3  | 3.5  |
| 3.Max Vibration | 2a in | 0.14 | 0.16 | 0.19 | 0.23 | 0.29 | 0.33 | 0.37 | 0.39 |
|                 | f Hz  | 3.0  | 2.7  | 2.5  | 2.3  | 2.0  | 1.9  | 1.8  | 1.8  |

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 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                            |