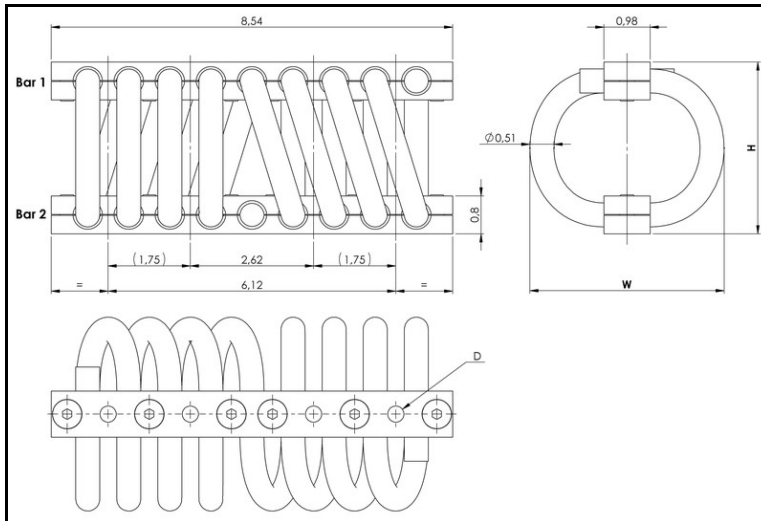


# WIRE ROPE ISOLATORS: 'HELICAL'

DEFINITION  
**series CB1400**



- 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>CB1400</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) |
|-------|------------------|-----------------|-----------------|
| -12   | 3,0              | 3,6             | 3,5             |
| -15   | 3,3              | 4,0             | 3,9             |
| -17   | 3,5              | 4,1             | 4,1             |
| -20   | 3,7              | 4,8             | 4,5             |
| -30   | 4,3              | 5,2             | 5,0             |
| -40   | 4,9              | 5,6             | 5,5             |
| -50   | 5,4              | 6,1             | 6,0             |
| -60   | 6,1              | 7,1             | 6,8             |
| -70   | 6,5              | 7,3             | 7,1             |
| -80   | 6,9              | 8,3             | 7,7             |

| INTERFACES                               |                         |                                          |                  |
|------------------------------------------|-------------------------|------------------------------------------|------------------|
| fixtures holes D                         | Bar 1                   |                                          |                  |
|                                          | ø 0.35 in through holes | ø 0.35 in through holes counter-sunk 82° | 1/4 - 28 inserts |
| Bar 2                                    |                         |                                          |                  |
| ø 0.35 in through holes                  | T2                      | not standard                             | not standard     |
| ø 0.35 in through holes counter-sunk 82° | C                       | C2                                       | not standard     |
| 1/4 - 28 inserts                         | I                       | CI                                       | I2               |

|   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|
| C | B | 1 | 4 | 0 | 0 | - | 1 | 2 | C | I |
|---|---|---|---|---|---|---|---|---|---|---|

**SERIE: CB1400**

'Helical' mount from the CB1400 series

**MODEL: -12**

height: 3,0in

width: 3,6in

weight: 3,5lbs

loops: serie

standard is 08 loops

**INTERFACE: CI**

ø 0.35 in through

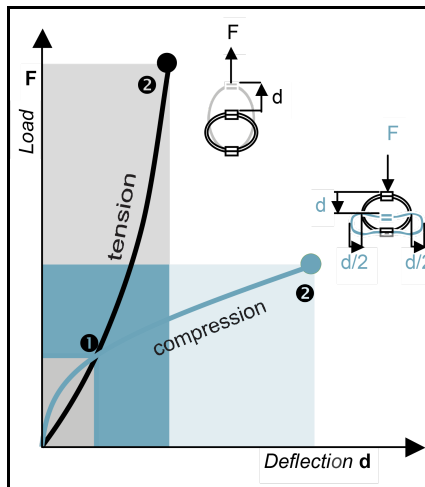
holes counter-sunk

82° in bar 1,

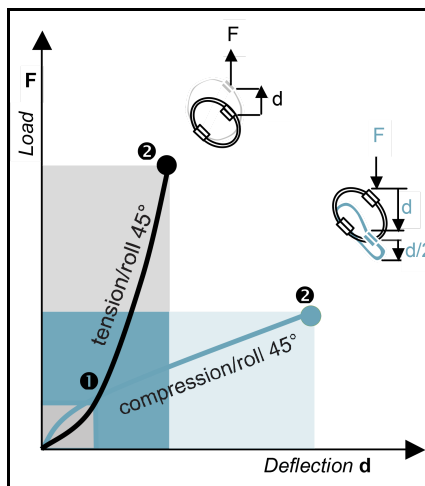
1/4 - 28 inserts in

bar 2

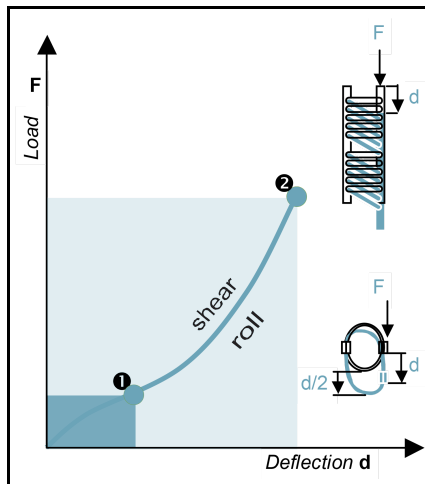




| COMPRESSION AND TENSION |       |       |      |      |      |      |      |      |      |      |      |
|-------------------------|-------|-------|------|------|------|------|------|------|------|------|------|
| CB1400 Series           | Model | -12   | -15  | -17  | -20  | -30  | -40  | -50  | -60  | -70  | -80  |
| 1.Max Static            | F lbf | 1100  | 900  | 850  | 610  | 510  | 450  | 370  | 280  | 260  | 210  |
|                         | d in  | 0,23  | 0,27 | 0,31 | 0,35 | 0,44 | 0,54 | 0,62 | 0,75 | 0,79 | 0,88 |
| 2.Max Shock             | F lbf | 3400  | 2700 | 2500 | 1800 | 1500 | 1300 | 1100 | 840  | 790  | 620  |
|                         | d in  | 1,2   | 1,5  | 1,7  | 1,9  | 2,4  | 2,9  | 3,4  | 4,0  | 4,4  | 4,7  |
| 3.Max Vibration         | 2a in | 0,14  | 0,16 | 0,19 | 0,21 | 0,26 | 0,32 | 0,37 | 0,44 | 0,49 | 0,52 |
|                         | f Hz  | 8,2   | 7,5  | 7,1  | 6,6  | 5,9  | 5,4  | 5,0  | 4,6  | 4,4  | 4,2  |
| 1.Max Static            | F lbf | 1100  | 900  | 850  | 610  | 510  | 450  | 370  | 280  | 260  | 210  |
|                         | d in  | 0,17  | 0,21 | 0,22 | 0,29 | 0,34 | 0,37 | 0,42 | 0,52 | 0,54 | 0,65 |
| 2.Max Shock             | F lbf | 11000 | 9200 | 8000 | 6700 | 5200 | 4100 | 3400 | 2700 | 2400 | 2100 |
|                         | d in  | 0,74  | 0,94 | 0,92 | 1,4  | 1,5  | 1,5  | 1,7  | 2,2  | 2,1  | 2,8  |
| 3.Max Vibration         | 2a in | 0,08  | 0,10 | 0,10 | 0,15 | 0,17 | 0,17 | 0,19 | 0,24 | 0,24 | 0,31 |
|                         | f Hz  | 11,1  | 9,9  | 9,9  | 8,3  | 7,8  | 7,6  | 7,2  | 6,4  | 6,4  | 5,7  |



| COMPRESSION/ROLL 45° - TENSION/ROLL 45° |       |      |      |      |      |      |      |      |      |      |      |
|-----------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|
| CB1400 Series                           | Model | -12  | -15  | -17  | -20  | -30  | -40  | -50  | -60  | -70  | -80  |
| 1.Max Static                            | F lbf | 840  | 670  | 640  | 460  | 380  | 330  | 280  | 210  | 200  | 160  |
|                                         | d in  | 0,29 | 0,34 | 0,41 | 0,51 | 0,65 | 0,72 | 0,84 | 0,97 | 0,89 | 1,1  |
| 2.Max Shock                             | F lbf | 2200 | 1800 | 1600 | 1200 | 1000 | 860  | 720  | 540  | 510  | 400  |
|                                         | d in  | 1,9  | 2,2  | 2,6  | 2,9  | 3,6  | 4,4  | 5,1  | 6,1  | 6,6  | 7,1  |
| 3.Max Vibration                         | 2a in | 0,20 | 0,25 | 0,28 | 0,32 | 0,39 | 0,49 | 0,56 | 0,67 | 0,73 | 0,78 |
|                                         | f Hz  | 6,2  | 5,7  | 5,3  | 4,9  | 4,4  | 4,0  | 3,7  | 3,4  | 3,4  | 3,2  |
| 1.Max Static                            | F lbf | 840  | 670  | 640  | 460  | 380  | 330  | 280  | 210  | 200  | 160  |
|                                         | d in  | 0,22 | 0,25 | 0,27 | 0,34 | 0,41 | 0,49 | 0,54 | 0,62 | 0,67 | 0,85 |
| 2.Max Shock                             | F lbf | 5500 | 4600 | 4000 | 3300 | 2600 | 2000 | 1700 | 1300 | 1200 | 1000 |
|                                         | d in  | 0,84 | 1,1  | 1,1  | 1,6  | 1,7  | 1,7  | 1,9  | 2,5  | 2,5  | 3,2  |
| 3.Max Vibration                         | 2a in | 0,09 | 0,12 | 0,12 | 0,17 | 0,19 | 0,19 | 0,21 | 0,27 | 0,27 | 0,35 |
|                                         | f Hz  | 9,0  | 8,0  | 8,0  | 6,7  | 6,3  | 6,2  | 5,8  | 5,2  | 5,2  | 4,6  |



| SHEAR OR ROLL                                                                                                                                                                                                                                                                                                                                                                         |       |      |      |      |      |      |      |      |      |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|------|------|------|------|------|------|------|------|------|
| CB1400 Series                                                                                                                                                                                                                                                                                                                                                                         | Model | -12  | -15  | -17  | -20  | -30  | -40  | -50  | -60  | -70  | -80  |
| 1.Max Static                                                                                                                                                                                                                                                                                                                                                                          | F lbf | 560  | 450  | 420  | 310  | 250  | 220  | 190  | 140  | 130  | 100  |
|                                                                                                                                                                                                                                                                                                                                                                                       | d in  | 0,30 | 0,38 | 0,41 | 0,46 | 0,57 | 0,73 | 0,91 | 1,0  | 1,1  | 1,3  |
| 2.Max Shock                                                                                                                                                                                                                                                                                                                                                                           | F lbf | 3100 | 2400 | 2100 | 1700 | 1300 | 1000 | 830  | 640  | 570  | 490  |
|                                                                                                                                                                                                                                                                                                                                                                                       | d in  | 1,1  | 1,4  | 1,5  | 1,9  | 2,3  | 2,6  | 2,9  | 3,6  | 3,7  | 4,4  |
| 3.Max Vibration                                                                                                                                                                                                                                                                                                                                                                       | 2a in | 0,13 | 0,16 | 0,17 | 0,21 | 0,25 | 0,28 | 0,32 | 0,39 | 0,41 | 0,48 |
|                                                                                                                                                                                                                                                                                                                                                                                       | f Hz  | 3,2  | 2,9  | 2,8  | 2,4  | 2,3  | 2,2  | 2,1  | 1,9  | 1,9  | 1,7  |
| 1. Max static load (F) with corresponding deflection (d)<br>2. Max shock load (F) with corresponding deflection (d)<br>3. Uncoupled resonant frequency (f) under max static loading 1. and max peak to peak sinusoidal vibration input (2a)<br>*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                            |

