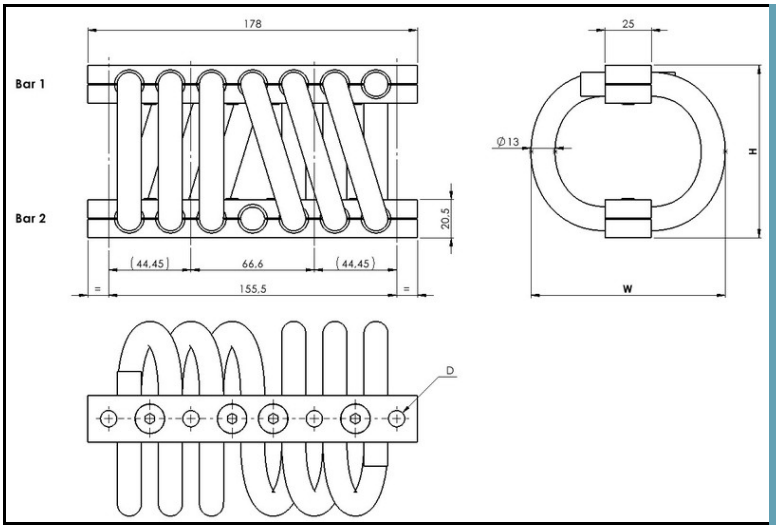
# WIRE ROPE ISOLATORS: 'HELICAL'

DEFINITION
**series CB61400**




- 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 milimeters. For reference only*

## SERIES

Materials and finishes
(meets RoHS requirements)

**CB61400**

**Cable:**
stainless steel
galvanized available: CBG

**Retainer bars:**
aluminium alloy/
SurTec

**Screws:**
alloy steel/ zinc plate

**Inserts:**
stainless steel

All stainless steel: CBSS

Other materials on request

## MODEL

| | height H (mm) | width W (mm) | weight (kg) |
|---|---|---|---|
| -12 | 76 | 92 | 1,3 |
| -15 | 83 | 102 | 1,4 |
| -17 | 89 | 105 | 1,5 |
| -20 | 95 | 121 | 1,6 |
| -30 | 108 | 133 | 1,8 |
| -40 | 124 | 143 | 1,9 |
| -50 | 137 | 156 | 2,1 |
| -60 | 155 | 180 | 2,4 |
| -70 | 166 | 186 | 2,5 |
| -80 | 175 | 210 | 2,7 |

## INTERFACES

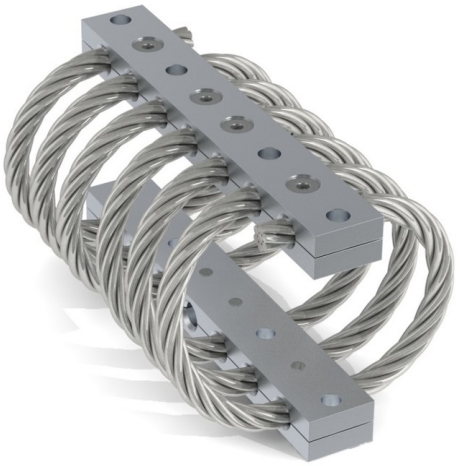
| fixtures holes D | Bar 1 | | |
|---|---|---|---|
| Bar 2 | 4 through holes ø8,8mm | 4 through holes ø 8,8mm counter-sunk 90° | 4 inserts M8 |
| 4 through holes ø8,8mm | no suffix | not standard | not standard |
| 4 through holes ø8,8mm counter-sunk 90° | CM | CM2 | not standard |
| 4 inserts M8 | IM | CIM | IM2 |

| C | B | 6 | 1 | 4 | 0 | 0 | - | 1 | 2 | C | I | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|

SERIE: CB61400
'Helical' mount from the CB61400 series

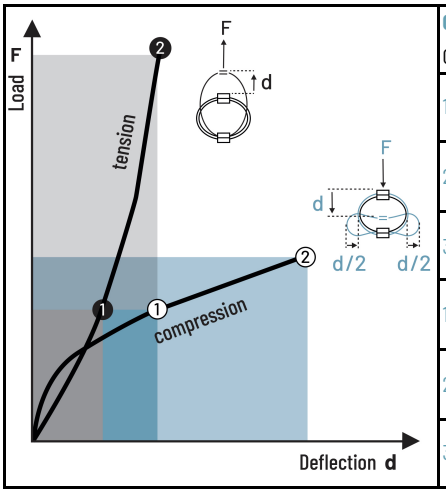
MODEL: -12
height: 76mm
width: 92mm
weight: 1,3kg
loops: serie
standard is 06 loops

INTERFACE: CIM
4 through holes ø 8,8mm
counter-sunk 90° in bar 1,
4 inserts M8 in bar 2



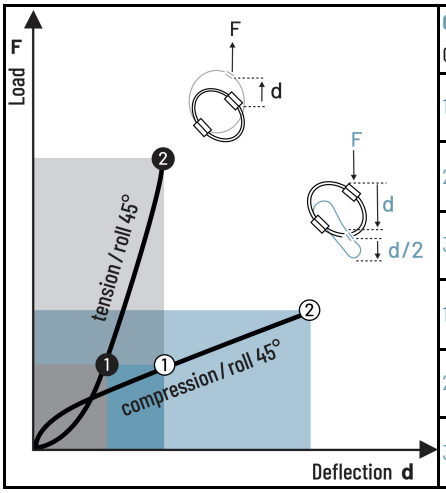

SOCITEC

# WIRE ROPE ISOLATORS: 'HELICAL'



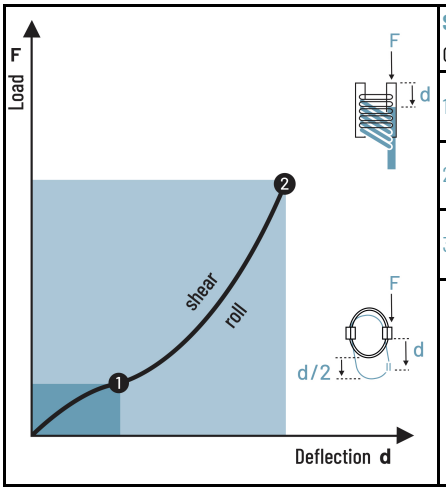

**COMPRESSION AND TENSION**

| CB61400 Series | Model | -12 | -15 | -17 | -20 | -30 | -40 | -50 | -60 | -70 | -80 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 391 | 313 | 294 | 213 | 176 | 154 | 129 | 97,2 | 91,6 | 71,7 |
| | d mm | 5,8 | 7 | 8 | 9 | 11,1 | 13,7 | 15,6 | 18,9 | 20,1 | 22,2 |
| 2.Max Shock | F daN | 1174 | 939 | 882 | 639 | 530 | 463 | 389 | 291 | 274 | 215 |
| | d mm | 31 | 37 | 43 | 48 | 60 | 74 | 86 | 102 | 112 | 120 |
| 3.Max Vibration | 2a mm | 3,5 | 4,2 | 4,8 | 5,4 | 6,6 | 8,2 | 9,5 | 11,3 | 12,4 | 13,3 |
| | f Hz | 6,6 | 6,1 | 5,6 | 5,5 | 4,9 | 4,2 | 3,9 | 3,6 | 3,4 | 3,4 |
| 1.Max Static | F daN | 391 | 313 | 294 | 213 | 176 | 154 | 129 | 97,2 | 91,6 | 71,7 |
| | d mm | 4,3 | 5,4 | 5,6 | 7,4 | 8,6 | 9,4 | 10,7 | 13,3 | 13,7 | 16,6 |
| 2.Max Shock | F daN | 3859 | 3180 | 2779 | 2307 | 1805 | 1432 | 1186 | 917 | 826 | 709 |
| | d mm | 18 | 23 | 23 | 34 | 37 | 38 | 43 | 54 | 54 | 71 |
| 3.Max Vibration | 2a mm | 2 | 2,6 | 2,5 | 3,8 | 4,2 | 4,2 | 4,7 | 6 | 6 | 7,8 |
| | f Hz | 9,8 | 8,8 | 8,6 | 7,5 | 6,9 | 6,6 | 6,2 | 5,6 | 5,5 | 5 |




**COMPRESSION/ROLL 45° - TENSION/ROLL 45°**

| CB61400 Series | Model | -12 | -15 | -17 | -20 | -30 | -40 | -50 | -60 | -70 | -80 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 293 | 234 | 220 | 159 | 132 | 115 | 97,3 | 72,9 | 68,7 | 53,8 |
| | d mm | 8,4 | 10,4 | 11,2 | 13,8 | 16,6 | 19,1 | 21,9 | 26,7 | 28,1 | 32,5 |
| 2.Max Shock | F daN | 765 | 615 | 570 | 424 | 348 | 298 | 249 | 188 | 175 | 140 |
| | d mm | 47 | 56 | 64 | 72 | 90 | 112 | 129 | 153 | 168 | 180 |
| 3.Max Vibration | 2a mm | 5,2 | 6,2 | 7,1 | 8 | 10 | 12,3 | 14,3 | 16,9 | 18,6 | 19,9 |
| | f Hz | 5,6 | 5,2 | 4,8 | 4,7 | 4,1 | 3,6 | 3,3 | 3,1 | 2,9 | 2,9 |
| 1.Max Static | F daN | 293 | 234 | 220 | 159 | 132 | 115 | 97,3 | 72,9 | 68,7 | 53,8 |
| | d mm | 5,7 | 7,1 | 7,4 | 9,7 | 11,4 | 12,5 | 14,2 | 17,6 | 18,2 | 22 |
| 2.Max Shock | F daN | 1916 | 1582 | 1376 | 1152 | 898 | 708 | 586 | 454 | 408 | 352 |
| | d mm | 21 | 26 | 26 | 39 | 43 | 43 | 49 | 62 | 62 | 81 |
| 3.Max Vibration | 2a mm | 2,3 | 3 | 2,9 | 4,3 | 4,8 | 4,8 | 5,4 | 6,9 | 6,8 | 9 |
| | f Hz | 8,8 | 7,8 | 7,7 | 6,7 | 6,2 | 5,9 | 5,6 | 5 | 4,9 | 4,5 |




**SHEAR OR ROLL**

| CB61400 Series | Model | -12 | -15 | -17 | -20 | -30 | -40 | -50 | -60 | -70 | -80 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 195 | 156 | 147 | 106 | 88,4 | 77,3 | 64,9 | 48,6 | 45,8 | 35,8 |
| | d mm | 7,8 | 9,6 | 11,1 | 12,7 | 16 | 20,3 | 23,7 | 28,3 | 31,4 | 33,6 |
| 2.Max Shock | F daN | 1026 | 825 | 703 | 580 | 443 | 341 | 278 | 214 | 190 | 165 |
| | d mm | 28 | 35 | 38 | 48 | 57 | 64 | 73 | 90 | 95 | 111 |
| 3.Max Vibration | 2a mm | 3,2 | 3,9 | 4,2 | 5,4 | 6,3 | 7,1 | 8,1 | 10 | 10,5 | 12,2 |
| | f Hz | 7 | 6,3 | 6 | 5,4 | 5 | 4,6 | 4,3 | 3,9 | 3,8 | 3,6 |

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 |