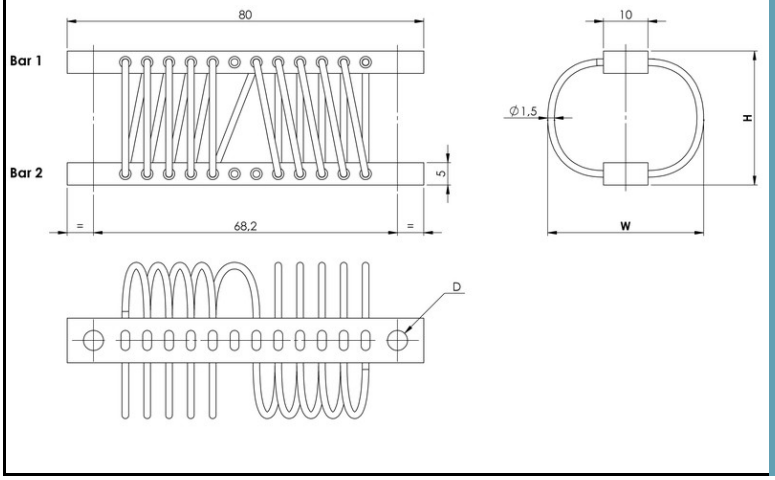
# WIRE ROPE ISOLATORS: 'HELICAL'

DEFINITION
**series C2H**




- 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) |
| **C2H** |
| **Cable:** stainless steel |
| **Retainer bars:** aluminium alloy/ SurTec |
| All stainless steel : C2HSS |
| Other materials on request |

| MODEL | height H (mm) | width W (mm) | weight (kg) |
|---|---|---|---|
| 310 | 18 | 25 | 0,03 |
| 410 | 20 | 28 | 0,03 |
| 510 | 25 | 30 | 0,03 |
| 610 | 28 | 33 | 0,03 |
| 710 | 30 | 35 | 0,03 |
| 810 | 33 | 38 | 0,03 |
| 910 | 35 | 40 | 0,03 |
| 1010 | 38 | 43 | 0,03 |

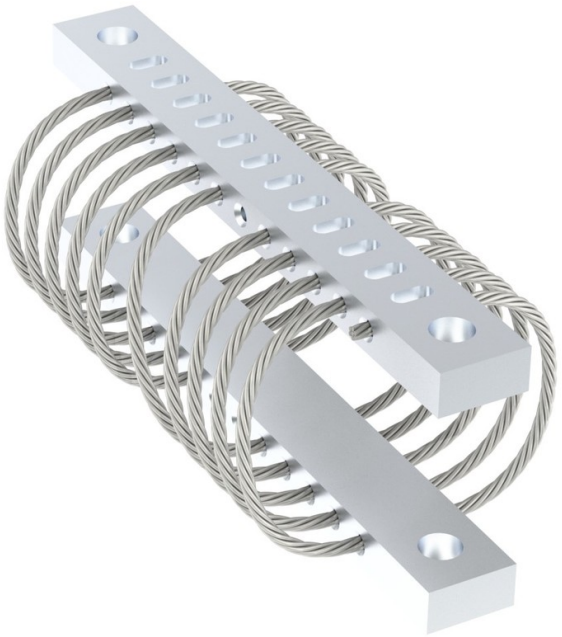
| INTERFACES | Bar 1 | | |
|---|---|---|---|
| fixtures holes D | 2 through holes ø 4,5mm | 2 through holes ø 4,5mm countersunk 90° | 2 x M4 |
| Bar 2 | | | |
| 2 through holes ø 4,5mm | no suffix | not standard | not standard |
| 2 through holes ø 4,5mm countersunk 90° | CM | CM2 | not standard |
| 2 x M4 | IM | CIM | IM2 |

| C | 2 | H | 3 | 1 | 0 | C | I | M |
|---|---|---|---|---|---|---|---|---|

SERIE: C2H
'Helical' mount from the C2H series

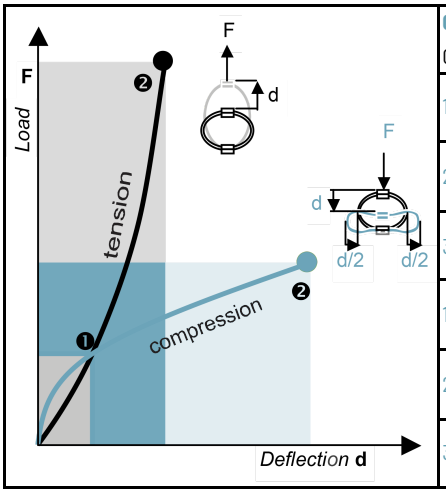
MODEL: 310
height: 18mm
width: 25mm
weight: 0,03kg
loops: serie standard is 10 loops

INTERFACE: CIM
2 through holes ø 4,5mm countersunk 90° in bar 1, 2 x M4 in bar 2



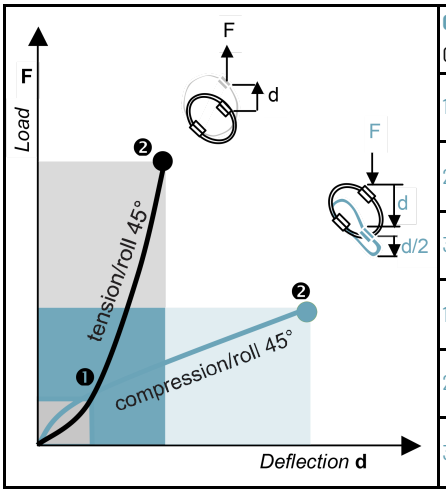

SOCITEC
ISO 9001 BUREAU VERITAS Certification
RoHS COMPLIANT

# WIRE ROPE ISOLATORS: 'HELICAL'



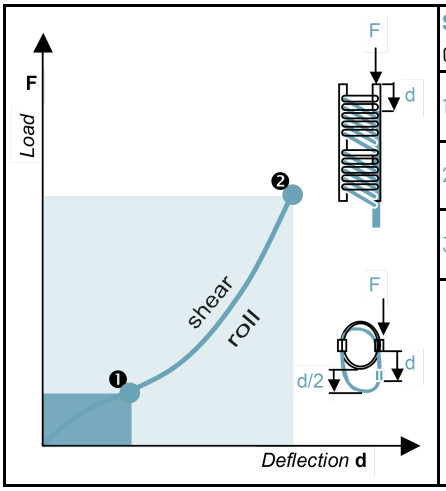

**COMPRESSION AND TENSION**

| C2H Series | Model | 310 | 410 | 510 | 610 | 710 | 810 | 910 | 1010 |
|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 6,5 | 4,9 | 4 | 3,2 | 2,8 | 2,3 | 2,1 | 1,8 |
| | d mm | 1,6 | 1,9 | 2,3 | 2,7 | 3 | 3,5 | 3,8 | 4,2 |
| 2.Max Shock | F daN | 19,5 | 14,7 | 11,9 | 9,5 | 8,3 | 7 | 6,2 | 5,3 |
| | d mm | 8 | 10 | 14 | 17 | 19 | 22 | 23 | 26 |
| 3.Max Vibration | 2a mm | 1 | 1,2 | 1,6 | 1,9 | 2,1 | 2,4 | 2,6 | 2,9 |
| | f Hz | 12,3 | 11,5 | 8,5 | 7,8 | 7,5 | 7 | 6,8 | 6,4 |
| 1.Max Static | F daN | 6,5 | 4,9 | 4 | 3,2 | 2,8 | 2,3 | 2,1 | 1,8 |
| | d mm | 1,1 | 1,4 | 1,5 | 1,8 | 2 | 2,3 | 2,4 | 2,7 |
| 2.Max Shock | F daN | 59,9 | 47,8 | 31,8 | 25,6 | 22,5 | 18,8 | 16,9 | 14,5 |
| | d mm | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 |
| 3.Max Vibration | 2a mm | 0,5 | 0,7 | 0,6 | 0,7 | 0,8 | 0,9 | 1 | 1,1 |
| | f Hz | 19,5 | 17,2 | 16,6 | 15,2 | 14,4 | 13,5 | 12,9 | 12,2 |




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

| C2H Series | Model | 310 | 410 | 510 | 610 | 710 | 810 | 910 | 1010 |
|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 4,9 | 3,7 | 3 | 2,4 | 2,1 | 1,7 | 1,6 | 1,3 |
| | d mm | 2,2 | 2,8 | 3,3 | 3,9 | 4,3 | 5 | 5,4 | 6 |
| 2.Max Shock | F daN | 12,5 | 9,6 | 7,4 | 5,9 | 5,2 | 4,4 | 3,9 | 3,3 |
| | d mm | 12 | 15 | 22 | 26 | 29 | 33 | 35 | 39 |
| 3.Max Vibration | 2a mm | 1,4 | 1,7 | 2,5 | 2,9 | 3,2 | 3,6 | 4 | 4,4 |
| | f Hz | 10,5 | 9,8 | 7,4 | 6,8 | 6,5 | 6,1 | 5,9 | 5,6 |
| 1.Max Static | F daN | 4,9 | 3,7 | 3 | 2,4 | 2,1 | 1,7 | 1,6 | 1,3 |
| | d mm | 1,4 | 1,9 | 2 | 2,4 | 2,6 | 3 | 3,3 | 3,7 |
| 2.Max Shock | F daN | 29,6 | 23,7 | 15,6 | 12,5 | 11 | 9,2 | 8,3 | 7,1 |
| | d mm | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 |
| 3.Max Vibration | 2a mm | 0,6 | 0,8 | 0,7 | 0,8 | 0,9 | 1 | 1,1 | 1,3 |
| | f Hz | 17,4 | 15,3 | 14,7 | 13,5 | 12,8 | 12 | 11,5 | 10,9 |




**SHEAR OR ROLL**

| C2H Series | Model | 310 | 410 | 510 | 610 | 710 | 810 | 910 | 1010 |
|---|---|---|---|---|---|---|---|---|---|
| 1.Max Static | F daN | 3,2 | 2,4 | 2 | 1,6 | 1,4 | 1,2 | 1 | 0,9 |
| | d mm | 2,2 | 2,7 | 4,2 | 5 | 5,5 | 6,3 | 6,8 | 7,6 |
| 2.Max Shock | F daN | 15,2 | 11,9 | 7,2 | 5,8 | 5 | 4,2 | 3,8 | 3,2 |
| | d mm | 7 | 9 | 11 | 13 | 14 | 16 | 18 | 20 |
| 3.Max Vibration | 2a mm | 0,8 | 1 | 1,2 | 1,5 | 1,6 | 1,9 | 2 | 2,2 |
| | f Hz | 13,5 | 12,1 | 10,7 | 9,9 | 9,4 | 8,8 | 8,4 | 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 |