

wire rope isolators standard line "Half-Helical"	series HH8
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definition

Bar 1

Bar 2

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

Dimensions are in mm.

Dimensions for reference only.

Series

Materials and finishes

HH8
Cable : stainless steel.
(*galvanised HHG8*)
Retainer bars : Aluminium alloy/Surtec 650
Screws : alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version HHSS8

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-10	45	54	0,17
-20	51	61	0,18
-25	56	69	0,20
-30	60	78	0,21
-35	60	87	0,22
-38	64	93	0,23
-40	64	98	0,24
-50	79	106	0,25
-60	95	127	0,28

Interfaces

	Bar 1	Bar 2
fixture holes D	2 through holes Ø 7 mm	2 through holes Ø 7 mm countersunk 90°
Bar 2	2 through holes Ø 7 mm	2 through holes Ø 7 mm countersunk 90°
2 through holes Ø 7 mm	TM2	<i>not standard</i>
2 through holes Ø 7 mm countersunk 90°	TCM	CM2
2 inserts M6	TIM	CIM

Example :
HH8-30CIM

Prefix :
"Half Helical" mount
from the **HH8** series

Model : -30
height : 60 mm
width : 78 mm
mass : 0,21 kg
4 loops

(Model : -30-02)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 7 mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2.

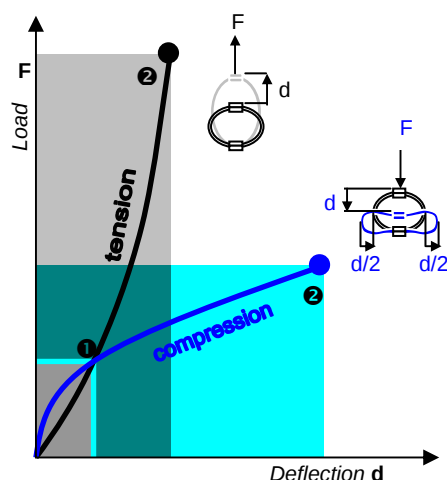
series

HH8

wire rope isolators

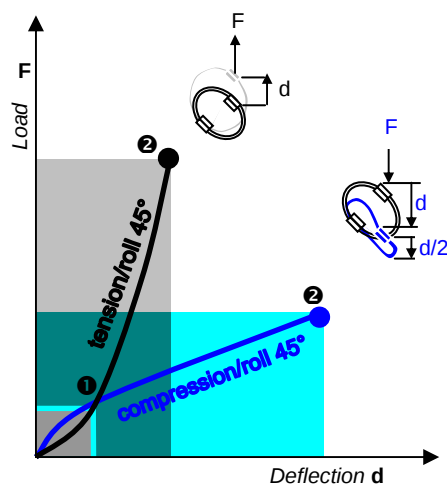
standard line "Half-Helical"

performances*



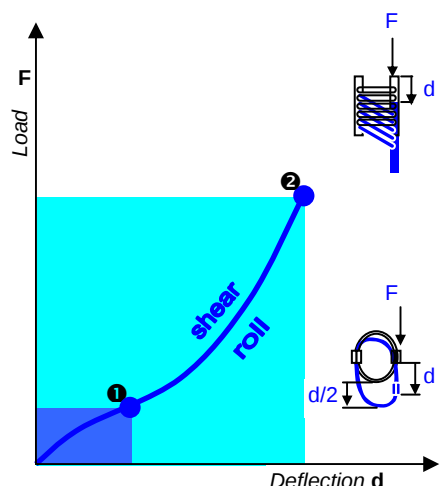
Compression and Tension

HH8 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	35,8	29,6	23,9	19,2	16,0	13,7	12,9	11,9	7,1
1	d mm	3,3	4,2	5,2	5,9	5,8	6,5	6,5	9,0	11,6
Max shock	F daN	108	88,8	71,7	57,5	47,8	41,2	38,5	35,6	21,3
2	d mm	18	23	28	32	32	35	36	49	63
Max vibration	2a mm	2,0	2,5	3,1	3,5	3,5	3,9	3,9	5,4	6,9
3	f Hz	9,2	8,1	7,4	7,0	7,2	6,9	6,9	5,7	5,0
Max static	F daN	35,8	29,6	23,9	19,2	16,0	13,7	12,9	11,9	7,1
1	d mm	2,9	3,5	4,4	5,4	5,8	6,5	6,5	8,4	10,5
Max shock	F daN	358	284	238	205	202	180	178	130	40,8
2	d mm	13	16	20	26	35	40	44	42	38
Max vibration	2a mm	1,5	1,7	2,2	2,9	3,8	4,4	4,8	4,6	4,2
3	f Hz	12,1	10,9	9,7	8,7	8,2	7,6	7,4	7,0	6,7



Compression/roll 45°-Tension/roll 45°

HH8 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	26,9	22,2	17,9	14,4	12,0	10,3	9,7	8,9	5,3
1	d mm	5,3	6,9	8,6	9,9	8,2	10,9	9,2	15,8	16,4
Max shock	F daN	67,0	54,9	44,7	36,3	31,0	26,8	25,3	22,5	13,4
2	d mm	27	35	42	48	48	53	53	74	94
Max vibration	2a mm	3,0	3,8	4,6	5,3	5,2	5,8	5,8	8,1	10,4
3	f Hz	7,7	6,8	6,2	5,9	6,1	5,8	5,9	4,8	4,2
Max static	F daN	26,9	22,2	17,9	14,4	12,0	10,3	9,7	8,9	5,3
1	d mm	4,4	5,5	6,9	8,4	8,2	10,6	9,2	13,1	16,3
Max shock	F daN	265	209	176	152	152	136	135	97	42
2	d mm	18	21	27	35	46	54	58	56	61
Max vibration	2a mm	1,9	2,3	3,0	3,9	5,0	5,9	6,4	6,2	6,7
3	f Hz	10,6	9,6	8,6	7,7	7,1	6,7	6,4	6,2	5,7



Shear or roll

HH8 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	17,9	14,8	12,0	9,6	8,0	6,9	6,4	5,9	3,6
1	d mm	6,3	8,0	9,8	11,2	11,0	12,2	12,3	17,1	22
Max shock	F daN	124	93,4	76,6	64,0	62,7	55,2	53,9	39,2	19,8
2	d mm	20	25	31	38	45	51	54	60	69
Max vibration	2a mm	2,2	2,7	3,4	4,2	4,9	5,6	6,0	6,5	7,6
3	f Hz	9,1	8,1	7,3	6,6	6,3	5,9	5,8	5,3	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.

01/07/2013

Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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wire rope isolators standard line "Half-Helical"	series HH9
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definition

Bar 1

Bar 2

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

Dimensions are in mm.

Dimensions for reference only.

Series

Materials and finishes

HH9
Cable : stainless steel.
(*galvanised HHG9*)
Retainer bars : Aluminium alloy/Surtec 650
Screws : alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version HHSS9

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-10	45	56	0,19
-20	51	63	0,20
-25	56	71	0,22
-30	60	80	0,23
-35	60	89	0,24
-38	64	95	0,25
-40	64	100	0,27
-50	79	108	0,29
-60	95	128	0,34

Interfaces

	Bar 1	Bar 2
fixture holes D	2 through holes Ø 7 mm	2 through holes Ø 7 mm countersunk 90°
Bar 2	2 through holes Ø 7 mm	2 through holes Ø 7 mm countersunk 90°
2 through holes Ø 7 mm	TM2	<i>not standard</i>
2 through holes Ø 7 mm countersunk 90°	TCM	CM2
2 inserts M6	TIM	CIM

Example :
HH9-30CIM

Prefix :
"Half Helical" mount
from the **HH9** series

Model : -30
height : 60 mm
width : 80 mm
mass : 0,24 kg
4 loops

(Model : -30-02)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 7 mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2.

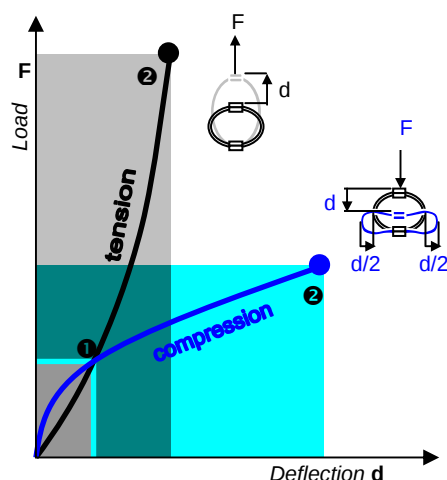
series

HH9

wire rope isolators

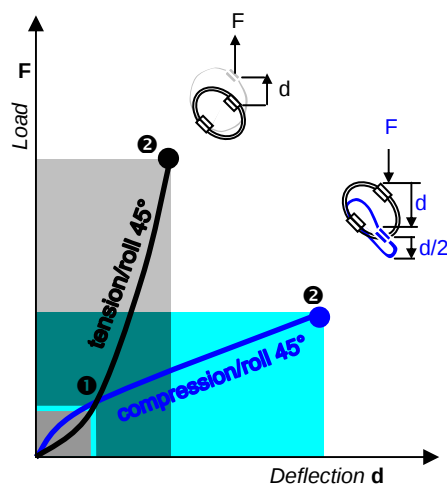
standard line "Half-Helical"

performances*



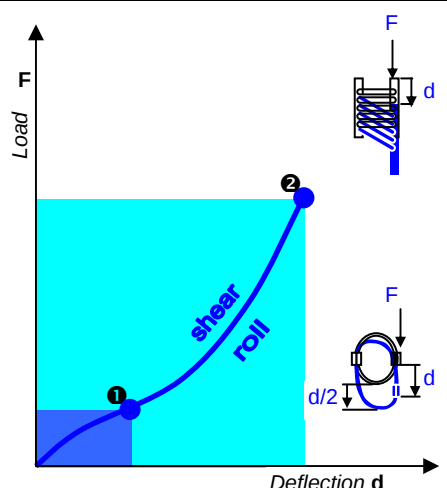
Compression and Tension

HH9 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	55,1	45,2	36,4	29,1	23,0	20,8	18,6	17,9	10,4
①	d mm	3,3	4,2	5,2	5,9	5,8	6,5	6,5	9,0	11,6
Max shock	F daN	165	136	109	87,2	68,8	62,3	55,7	53,6	31,4
②	d mm	18	23	28	32	32	35	35	49	63
Max vibration	2a mm	2,0	2,5	3,1	3,5	3,5	3,9	3,9	5,4	6,9
③	f Hz	9,1	8,0	7,4	7,0	7,3	6,9	7,0	5,7	5,0
Max static	F daN	55,1	45,2	36,4	29,1	23,0	20,8	18,6	17,9	10,4
①	d mm	2,7	3,4	4,4	5,4	5,8	6,5	6,5	8,4	10,5
Max shock	F daN	524	425	357	307	298	267	264	194	60
②	d mm	12	15	20	26	36	39	46	41	38
Max vibration	2a mm	1,3	1,7	2,2	2,8	3,9	4,3	5,0	4,6	4,2
③	f Hz	12,4	11,1	9,8	8,8	8,0	7,6	7,3	7,0	6,7



Compression/roll 45°-Tension/roll 45°

HH9 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	41,3	33,9	27,3	21,8	17,2	15,6	13,9	13,4	7,8
①	d mm	5,3	6,9	8,6	9,9	8,2	10,9	9,2	15,8	16,4
Max shock	F daN	102	83,6	67,8	54,9	44,8	40,5	36,7	33,9	19,7
②	d mm	27	35	42	48	48	53	53	74	94
Max vibration	2a mm	3,0	3,8	4,6	5,3	5,2	5,8	5,8	8,1	10,4
③	f Hz	7,6	6,7	6,2	5,9	6,2	5,8	5,9	4,7	4,2
Max static	F daN	41,3	33,9	27,3	21,8	17,2	15,6	13,9	13,4	7,8
①	d mm	4,2	5,3	6,8	8,3	8,2	10,5	9,2	13,0	16,3
Max shock	F daN	386	313	264	228	225	201	200	144	61
②	d mm	16	20	26	34	48	52	61	55	61
Max vibration	2a mm	1,8	2,2	2,9	3,8	5,3	5,7	6,7	6,1	6,7
③	f Hz	11,0	9,8	8,6	7,8	7,0	6,7	6,4	6,2	5,7



Shear or roll

HH9 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	27,6	22,6	18,2	14,5	11,5	10,4	9,3	8,9	5,2
①	d mm	6,3	8,0	9,8	11,2	11,0	12,2	12,3	17,1	22
Max shock	F daN	176	139	115	96,1	92,4	82,1	79,4	58,9	29,2
②	d mm	19	24	31	38	46	50	56	59	70
Max vibration	2a mm	2,1	2,6	3,4	4,1	5,0	5,5	6,1	6,5	7,7
③	f Hz	9,2	8,2	7,3	6,6	6,3	6,0	5,8	5,3	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.
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 Contact us.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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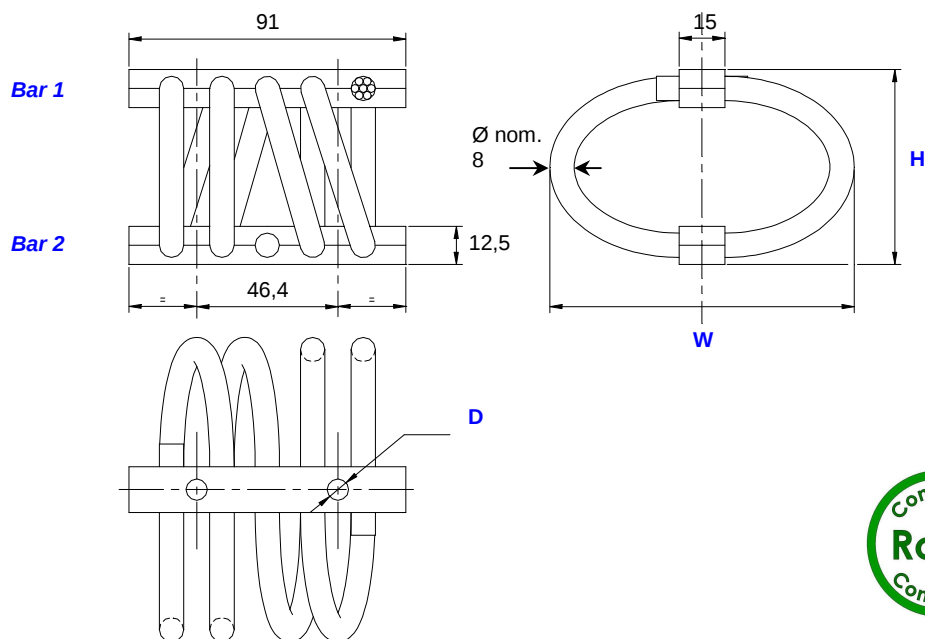


wire rope isolators

standard line "Half-Helical"

series
HH10

definition



Dimensions are in mm.

Dimensions for reference only.

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



Series

Materials and finishes

HH10
Cable : stainless steel.
(galvanised **HHG10**)
Retainer bars : Aluminium alloy/Surtec 650
Screws : alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS10**
Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-10	45	58	0,25
-20	51	65	0,27
-25	56	73	0,29
-30	60	82	0,31
-35	60	91	0,32
-38	64	97	0,33
-40	64	102	0,34
-50	79	110	0,35
-60	95	129	0,39

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 7 mm
2 through holes
Ø 7 mm
countersunk 90°

2 inserts M6

Bar 1

	2 through holes Ø 7 mm	2 through holes Ø 7 mm countersunk 90°	2 inserts M6
2 through holes Ø 7 mm	TM2	not standard	not standard
2 through holes Ø 7 mm countersunk 90°	TCM	CM2	not standard
2 inserts M6	TIM	CIM	IM2

Example :
HH10-30CIM

H H 1 0 - 3 0 C I M

Prefix :
"Half Helical" mount
from the **HH10** series

Model : **-30**
height : 60 mm
width : 82 mm
mass : 0,31 kg
4 loops

(Model : **-30-02**)
=
=
=
2 loops

Suffix : **CIM**
2 through holes Ø 7 mm
countersunk 90° in bar 1,
2 inserts M6 in bar 2.

Note : Standard models of this series have 4 loops.

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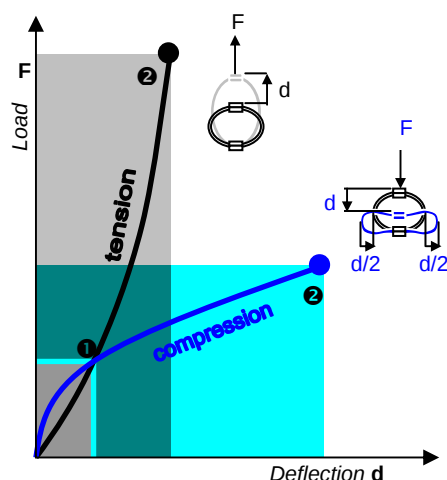
series

HH10

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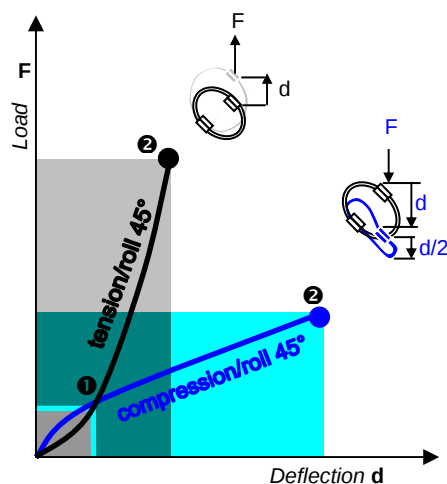
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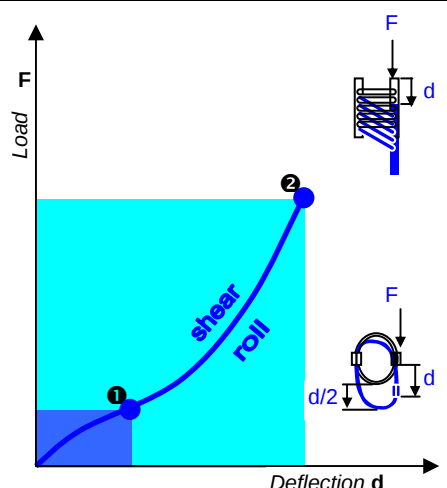
Compression and Tension

HH10 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	77,7	63,9	51,5	41,1	31,7	29,4	25,8	25,3	17,1
1	d mm	3,3	4,2	5,2	5,9	5,8	6,5	6,5	9,0	11,6
Max shock	F daN	233	192	154	123	96	88	77	76	51
2	d mm	18	23	28	32	32	35	35	49	63
Max vibration	2a mm	2,0	2,5	3,1	3,5	3,5	3,9	3,9	5,4	6,9
3	f Hz	9,2	8,0	7,4	7,0	7,3	6,9	7,0	5,7	5,0
Max static	F daN	77,7	63,9	51,5	41,1	31,7	29,4	25,8	25,3	17,1
1	d mm	2,8	3,4	4,4	5,4	5,8	6,5	6,5	8,4	10,5
Max shock	F daN	758	600	505	434	423	382	374	275	99
2	d mm	13	15	20	26	38	40	47	41	38
Max vibration	2a mm	1,4	1,7	2,2	2,8	4,1	4,4	5,1	4,6	4,2
3	f Hz	12,2	11,1	9,8	8,8	7,9	7,6	7,2	7,0	6,7



Compression/roll 45°-Tension/roll 45°

HH10 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	58,3	48,0	38,6	30,9	23,8	22,1	19,3	19,0	12,8
1	d mm	5,3	6,9	8,6	9,9	8,2	10,9	9,2	15,8	16,4
Max shock	F daN	145	118	95,9	77,7	62,1	57,4	51,0	48,1	32,3
2	d mm	27	35	42	48	48	53	53	74	94
Max vibration	2a mm	3,0	3,8	4,6	5,3	5,2	5,8	5,8	8,1	10,4
3	f Hz	7,7	6,7	6,2	5,9	6,2	5,8	5,9	4,7	4,2
Max static	F daN	58,3	48,0	38,6	30,9	23,8	22,1	19,3	19,0	12,8
1	d mm	4,3	5,3	6,8	8,3	8,2	10,5	9,2	13,0	16,3
Max shock	F daN	559	442	373	322	319	288	284	204	101
2	d mm	17	20	26	24	49	53	62	55	61
Max vibration	2a mm	1,8	2,2	2,9	3,8	5,4	5,8	6,9	6,1	6,7
3	f Hz	10,8	9,8	8,6	7,8	6,9	6,7	6,3	6,2	5,7



Shear or roll

HH10 series	Model	-10	-20	-25	-30	-35	-38	-40	-50	-60
Max static	F daN	38,9	32,0	25,7	20,6	15,9	14,7	12,9	12,7	8,6
1	d mm	6,3	8,0	9,8	11,2	11,1	12,2	12,3	17,1	22
Max shock	F daN	261	196	162	136	131	118	112	82,4	47,9
2	d mm	20	24	31	38	46,7	51	57	59	70
Max vibration	2a mm	2,1	2,6	3,4	4,1	5,2	5,6	6,2	6,5	7,7
3	f Hz	9,2	8,2	7,3	6,6	6,2	5,9	5,7	5,3	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)

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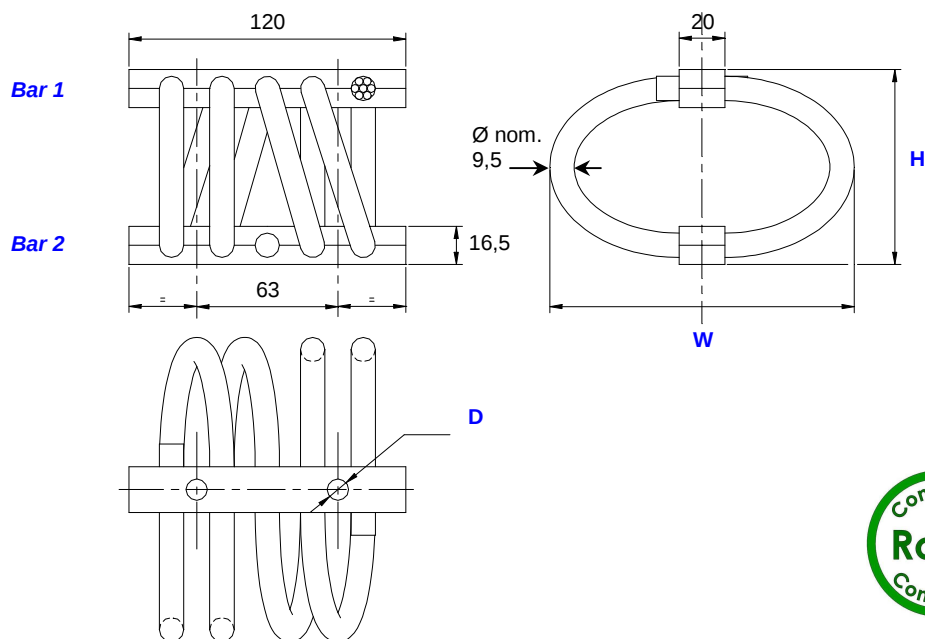


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series
HH13

definition



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- Unequalled temperature range : -180°C +300°C.
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Series

Materials and finishes

HH13
Cable : stainless steel.
(galvanised **HHG13**)
Retainer bars : Aluminium alloy/Surtec 650
Screws : alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS13**

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-12	68	80	0,55
-15	71	84	0,58
-20	74	90	0,60
-30	77	104	0,62
-35	89	108	0,65
-40	105	121	0,70
-50	108	140	0,74
-60	124	143	0,77
-70	134	153	0,80

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 8,5 mm

2 through holes
Ø 8,5 mm
countersunk 90°

2 inserts M8

Bar 1

	2 through holes Ø 8,5 mm	2 through holes Ø 8,5 mm countersunk 90°	2 inserts M8
2 through holes Ø 8,5 mm	TM2	not standard	not standard
2 through holes Ø 8,5 mm countersunk 90°	TCM	CM2	not standard
2 inserts M8	TIM	CIM	IM2

Example :
HH13-30CIM

H H 1 3 - 3 0 C I M

Prefix :
"Half Helical" mount
from the **HH13** series

Model : **-30**
height : 77 mm
width : 104 mm
mass : 0,62 kg
4 loops

(Model : **-30-02**)
=
=
=
2 loops

Suffix : **CIM**
2 through holes Ø 8,5 mm
countersunk 90° in bar 1,
2 inserts M8 in bar 2.

Note : Standard models of this series have 4 loops.

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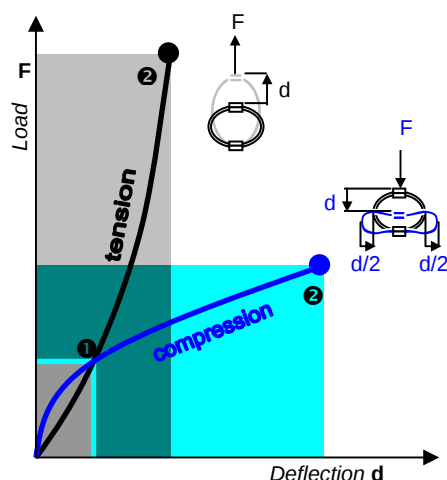
series

HH13

wire rope isolators

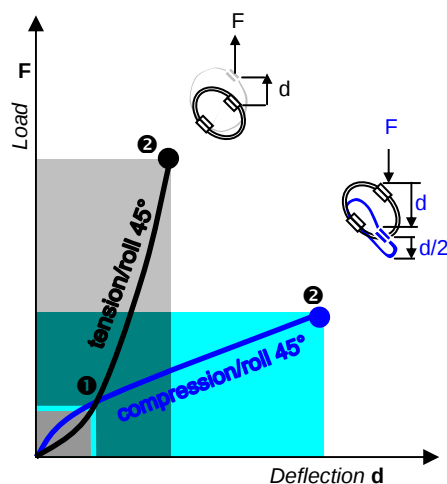
standard line "Half-Helical"

performances*



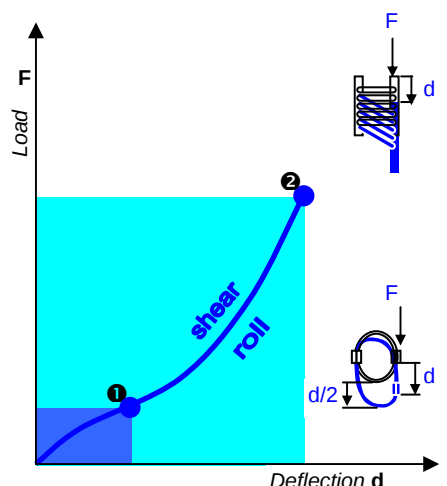
Compression and Tension

HH13 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	89,7	82,9	72,5	53,6	53,4	45,3	34,2	34,6	31,2
①	d mm	5,9	6,3	6,8	7,4	9,2	12,0	12,5	15,2	16,8
Max shock	F daN	269	249	217	161	160	136	103	104	93,6
②	d mm	32	34	37	40	50	65	68	82	91
Max vibration	2a mm	3,5	3,7	4,1	4,4	5,5	7,2	7,5	9,1	10,0
③	f Hz	6,5	6,4	6,2	6,3	5,4	4,5	4,8	4,1	3,9
Max static	F daN	89,7	82,9	72,5	53,6	53,4	45,3	34,2	34,6	31,2
①	d mm	4,2	4,6	5,3	6,8	7,1	8,4	10,7	10,7	11,7
Max shock	F daN	757	713	652	579	481	376	338	288	257
②	d mm	17	19	22	34	30	33	49	42	46
Max vibration	2a mm	1,8	2,0	2,4	3,7	3,3	3,6	5,4	4,6	5,0
③	f Hz	10,0	9,6	8,9	7,8	7,7	7,1	6,3	6,4	6,1



Compression/roll 45°-Tension/roll 45°

HH13 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	67,3	62,2	54,4	40,2	40,1	34,0	25,7	26,0	23,4
①	d mm	9,9	10,6	11,6	12,6	16,1	21,4	17,6	21,3	23,4
Max shock	F daN	162	151	133	102	97,9	81,6	63,8	62,4	56,2
②	d mm	48	51	56	60	75	98	102	123	137
Max vibration	2a mm	5,3	5,6	6,1	6,6	8,3	10,7	11,2	13,6	15,0
③	f Hz	5,4	5,3	5,2	5,3	4,5	3,7	4,1	3,5	3,3
Max static	F daN	67,3	62,2	54,4	40,2	40,1	34,0	25,7	26,0	23,4
①	d mm	6,6	7,2	8,2	10,6	11,1	13,1	16,6	16,6	18,2
Max shock	F daN	552	521	478	431	352	274	250	210	187
②	d mm	22	25	30	45	40	44	65	56	61
Max vibration	2a mm	2,5	2,7	3,3	4,9	4,4	4,8	7,2	6,2	6,7
③	f Hz	8,8	8,5	7,9	6,9	6,8	6,3	5,6	5,6	5,4



Shear or roll

HH13 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	44,9	41,4	36,2	26,8	26,7	22,6	17,1	17,3	15,6
①	d mm	11,2	11,9	12,9	14,0	17,5	22,7	23,6	28,7	31,8
Max shock	F daN	240	227	207	182	147	112	102	83,7	73,9
②	d mm	30	33	37	48	50	60	75	76	84
Max vibration	2a mm	3,3	3,6	4,1	5,3	5,5	6,6	8,2	8,4	9,2
③	f Hz	7,2	6,9	6,5	5,9	5,6	5,0	4,7	4,5	4,3

- 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.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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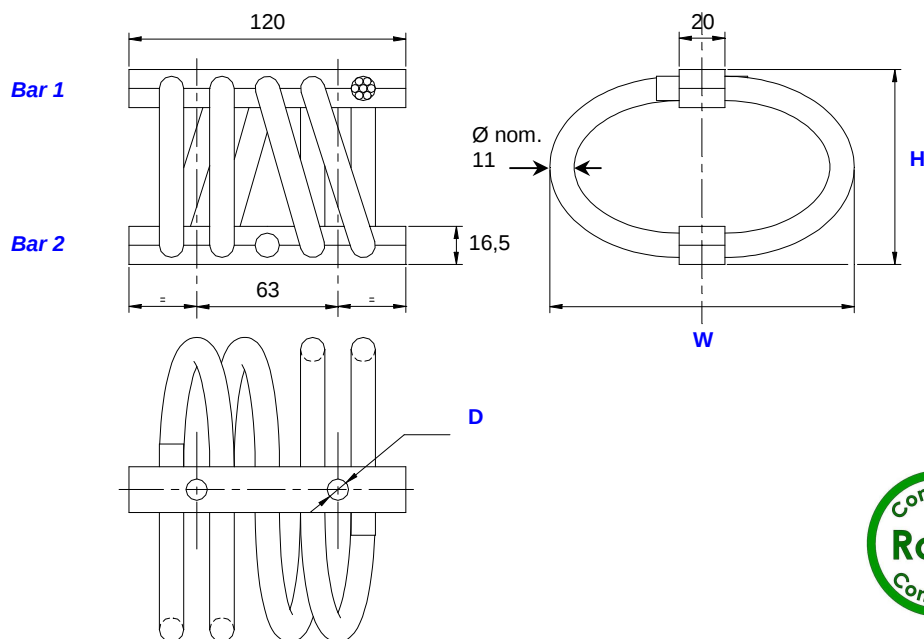


wire rope isolators

standard line "Half-Helical"

series
HH11

definition



Dimensions are in mm.

Dimensions for reference only.



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



Series

Materials and finishes

HH11
Cable :
stainless steel.
(galvanised **HHG11**)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS11**
Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-12	68	83	0,70
-15	71	87	0,75
-20	74	93	0,80
-30	77	107	0,85
-35	89	111	0,90
-40	105	124	1,00
-50	108	143	1,07
-60	124	146	1,14
-70	134	156	1,20

Interfaces

fixture holes
D

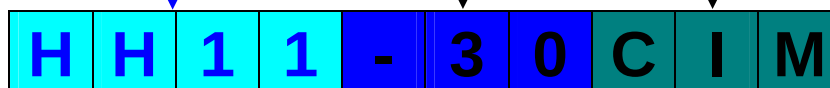
Bar 2

2 through holes
Ø 8,5 mm
2 through holes
Ø 8,5 mm
countersunk 90°

2 inserts M8

Bar 1	Bar 1	Bar 1	Bar 1
2 through holes Ø 8,5 mm	2 through holes Ø 8,5 mm countersunk 90°	2 inserts M8	
2 through holes Ø 8,5 mm	2 through holes Ø 8,5 mm countersunk 90°	2 inserts M8	
TM2	not standard	not standard	
TCM	CM2	not standard	
TIM	CIM	IM2	

Example :
HH11-30CIM



Prefix :
"Half Helical" mount
from the **HH11** series

Model : -30
height : 77 mm
width : 107 mm
mass : 0,85 kg
4 loops

(Model : -30-02)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 8,5 mm
countersunk 90° in bar 1,
2 inserts M8 in bar 2.

Note : Standard models of this series have 4 loops.

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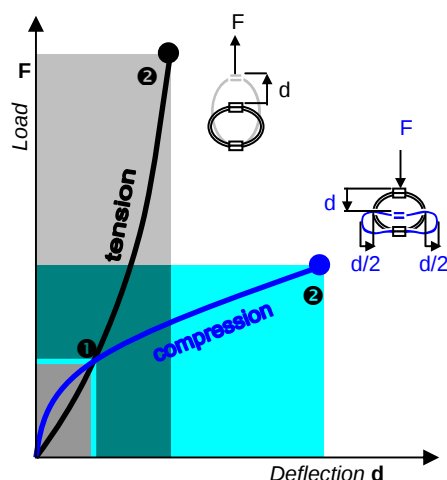
series

HH11

wire rope isolators

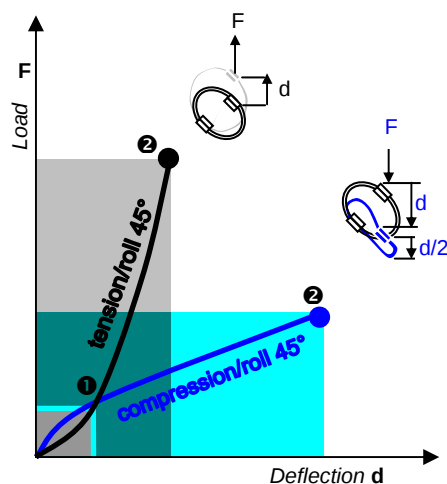
standard line "Half-Helical"

performances*



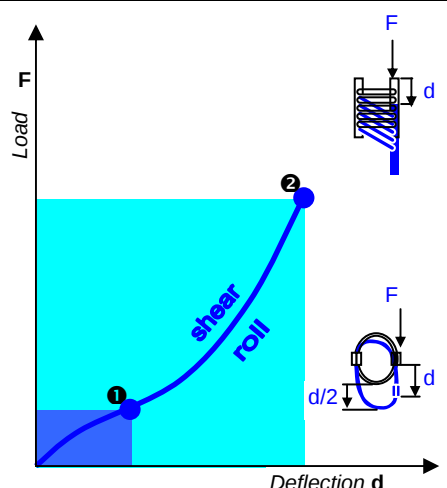
Compression and Tension

HH11 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	161	147	129	95,8	95,7	81,4	61,6	62,5	56,4
1	d mm	5,9	6,3	6,8	7,4	9,2	12,0	12,5	15,2	16,8
Max shock	F daN	482	442	387	287	287	244	185	188	170
2	d mm	32	34	37	40	50	65	68	82	91
Max vibration	2a mm	3,5	3,7	4,1	4,4	5,5	7,2	7,5	9,1	10,0
3	f Hz	6,6	6,4	6,3	6,3	5,4	4,5	4,8	4,1	3,9
Max static	F daN	161	147	129	95,8	95,7	81,4	61,6	62,5	56,4
1	d mm	4,3	4,7	5,4	6,9	7,2	8,5	10,8	10,8	11,8
Max shock	F daN	1379	1287	1178	1056	870	682	617	526	469
2	d mm	17	19	23	35	31	34	50	43	47
Max vibration	2a mm	1,9	2,1	2,5	3,8	3,4	3,7	5,5	4,7	5,1
3	f Hz	9,9	9,5	8,9	7,7	7,6	7,1	6,3	6,3	6,0



Compression/roll 45°-Tension/roll 45°

HH11 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	121	111	96,8	71,9	71,8	61,1	46,2	46,9	42,3
1	d mm	9,9	10,6	11,6	12,6	16,1	21,4	17,6	21,3	23,7
Max shock	F daN	292	269	237	182	176	147	116	113	102
2	d mm	48	51	56	60	75	98	102	123	137
Max vibration	2a mm	5,3	5,6	6,1	6,6	8,3	10,7	11,2	13,6	15,0
3	f Hz	5,5	5,4	5,2	5,3	4,5	3,8	4,1	3,5	3,3
Max static	F daN	121	111	96,8	71,9	71,8	61,1	46,2	46,9	42,3
1	d mm	6,7	7,3	8,3	10,7	11,2	13,3	16,8	16,8	18,4
Max shock	F daN	1007	941	865	788	639	497	457	383	341
2	d mm	23	26	30	46	41	45	67	57	62
Max vibration	2a mm	2,6	2,8	3,3	5,1	4,5	4,9	7,3	6,3	6,8
3	f Hz	8,8	8,4	7,8	6,8	6,7	6,2	5,5	5,6	5,4



Shear or roll

HH11 series	Model	-12	-15	-20	-30	-35	-40	-50	-60	-70
Max static	F daN	80,4	73,7	64,6	47,9	47,9	40,7	30,8	31,3	28,2
1	d mm	11,2	11,9	12,9	14,0	17,5	22,7	23,6	28,7	31,8
Max shock	F daN	437	408	370	333	267	202	186	153	135
2	d mm	31	33	38	49	51	61	76	77	84
Max vibration	2a mm	3,4	3,6	4,1	5,4	5,6	6,7	8,3	8,5	9,3
3	f Hz	7,1	6,9	6,5	5,9	5,6	5,0	4,7	4,5	4,3

- 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.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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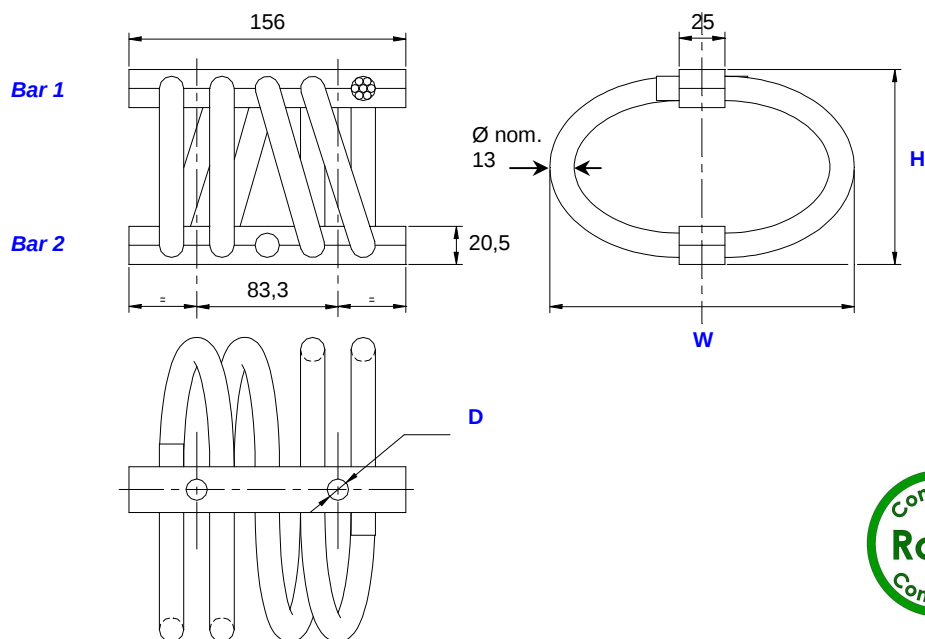


wire rope isolators

standard line "Half-Helical"

series
HH14

definition



Dimensions are in mm.

Dimensions for reference only.



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



Series

Materials and finishes

HH14
Cable :
stainless steel.
(galvanised **HHG14**)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS14**
Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-12	76	92	0,90
-15	83	102	1,00
-17	89	105	1,05
-20	95	121	1,10
-30	108	133	1,20
-40	124	143	1,35
-50	137	156	1,50
-60	155	180	1,75
-70	166	186	1,85

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 8,8 mm
2 through holes
Ø 8,8 mm
countersunk 90°

2 inserts M8

Bar 1

	2 through holes Ø 8,8 mm	2 through holes Ø 8,8 mm countersunk 90°	2 inserts M8
2 through holes Ø 8,8 mm	TM2	not standard	not standard
2 through holes Ø 8,8 mm countersunk 90°	TCM	CM2	not standard
2 inserts M8	TIM	CIM	IM2

Example :
HH14-30CIM

H H 1 4 - 3 0 C I M

Prefix :
"Half Helical" mount
from the **HH14** series

Model : -30
height : 108 mm
width : 133 mm
mass : 1,2 kg
4 loops

(**Model : -30-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 8,8 mm
countersunk 90° in bar 1,
2 inserts M8 in bar 2.

Note : Standard models of this series have 4 loops.

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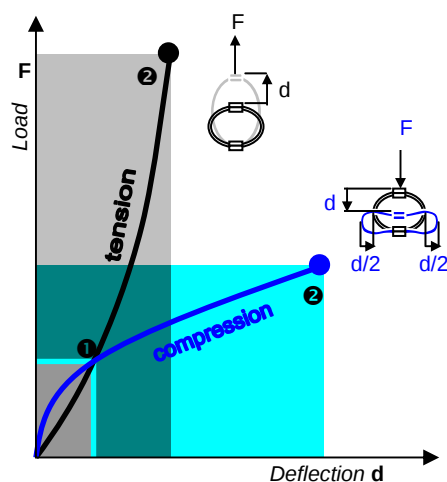
series

HH14

wire rope isolators

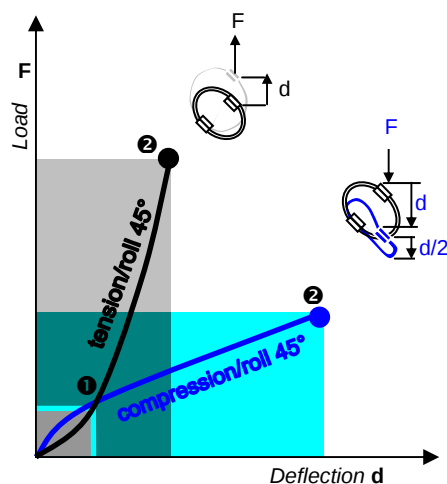
standard line "Half-Helical"

performances*



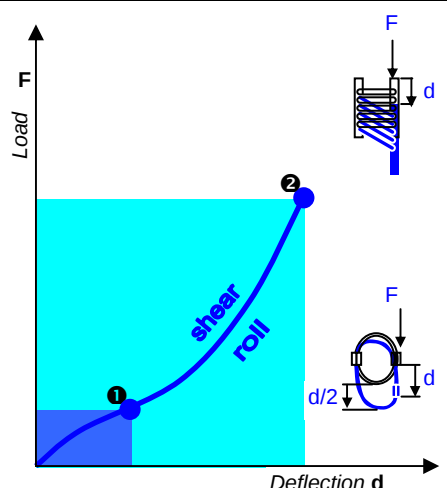
Compression and Tension

HH14 series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70
Max static	F daN	246	205	197	149	129	118	103	80,5	77,3
1	d mm	5,9	7,0	7,9	9,0	11,1	13,6	15,6	19,0	20,1
Max shock	F daN	737	616	590	448	388	353	307	242	232
2	d mm	32	38	43	49	60	75	87	103	113
Max vibration	2a mm	3,5	4,2	4,7	5,4	6,6	8,3	9,6	11,3	12,4
3	f Hz	6,6	6,1	5,5	5,5	4,9	4,2	3,9	3,6	3,4
Max static	F daN	246	205	197	149	129	118	103	80,5	77,3
1	d mm	4,3	5,3	5,5	7,4	8,6	9,4	10,7	13,3	13,7
Max shock	F daN	2107	1824	1626	1411	1164	953	822	668	613
2	d mm	17	22	22	32	36	36	41	52	52
Max vibration	2a mm	1,9	2,4	2,4	3,6	4,0	4,0	4,5	5,8	5,7
3	f Hz	9,9	8,9	8,8	7,5	7,0	6,7	6,3	5,7	5,7



Compression/roll 45°-Tension/roll 45°

HH14 series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70
Max static	F daN	184	154	148	112	97,0	88,3	76,8	60,4	58,0
1	d mm	9,9	12,0	13,7	15,8	19,6	24,7	22,5	26,7	29,3
Max shock	F daN	446	375	354	276	237	211	183	146	138
2	d mm	48	57	65	74	90	113	130	154	169
Max vibration	2a mm	5,3	6,3	7,1	8,1	9,9	12,4	14,3	17,0	18,6
3	f Hz	5,5	5,1	4,6	4,6	4,1	3,4	3,3	3,1	2,9
Max static	F daN	184	154	148	112	97,0	88,3	76,8	60,4	58,0
1	d mm	6,7	8,3	8,6	11,5	13,3	14,6	16,7	20,7	21,4
Max shock	F daN	1539	1336	1183	1039	853	692	596	486	444
2	d mm	23	30	29	43	48	48	55	70	69
Max vibration	2a mm	2,6	3,3	3,2	4,8	5,3	5,3	6,0	7,7	7,6
3	f Hz	8,8	7,9	7,7	6,7	6,2	5,9	5,6	5,0	5,0



Shear or roll

HH14 series	Model	-12	-15	-17	-20	-30	-40	-50	-60	-70
Max static	F daN	123	103	98,3	74,6	64,7	58,9	51,2	40,3	38,7
1	d mm	11,2	13,3	15,0	17,1	21,0	26,2	30,3	35,9	39,4
Max shock	F daN	695	588	509	444	361	280	239	194	175
2	d mm	31	38	40	52	60	68	78	95	100
Max vibration	2a mm	3,4	4,1	4,3	5,7	6,6	7,4	8,5	10,5	11,0
3	f Hz	7,2	6,5	6,2	5,6	5,1	4,7	4,4	4,0	3,9

- 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.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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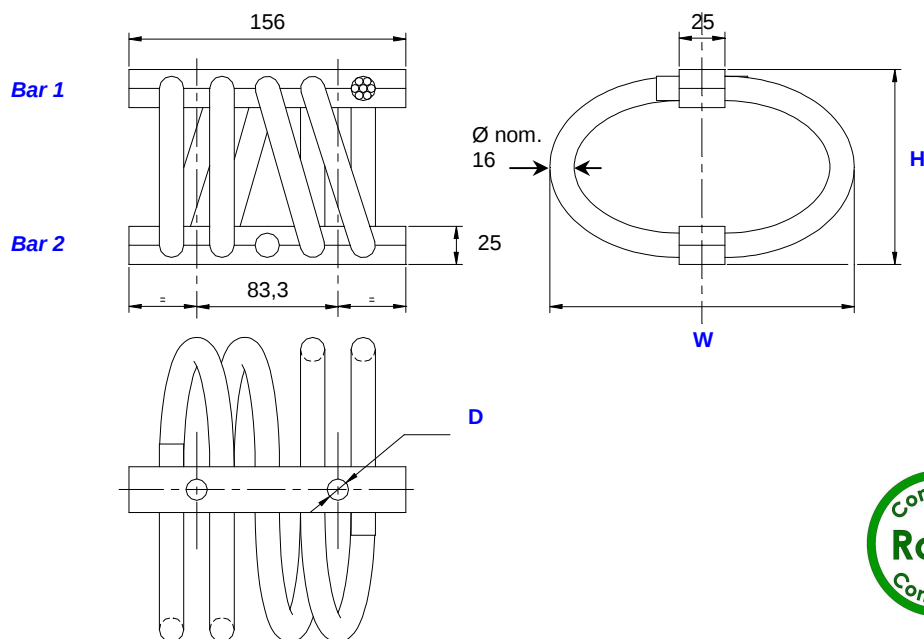


wire rope isolators

standard line "Half-Helical"

series
HH15

definition



Dimensions are in mm.

Dimensions for reference only.

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



Series

Materials and finishes

HH15

Cable :
stainless steel.
(*galvanised HHG15*)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(**Inserts :** stainless steel).
All stainless steel version HHSS15

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-12	87	102	1,50
-15	94	112	1,60
-17	98	120	1,70
-20	107	135	1,85
-30	117	152	2,00
-40	125	165	2,15
-50	135	178	2,30
-60	146	185	2,40

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 10,8 mm

2 through holes
Ø 10,8 mm
countersunk 90°

2 inserts M10

Bar 1			
2 through holes Ø 10,8 mm	2 through holes Ø 10,8 mm countersunk 90°	2 inserts M10	
2 through holes Ø 10,8 mm	TM2	not standard	not standard
2 through holes Ø 10,8 mm countersunk 90°	TCM	CM2	not standard
2 inserts M10	TIM	CIM	IM2

Example :
HH15-30CIM

H H 1 5 - 3 0 C I M

Prefix :
"Half Helical" mount
from the **HH15** series

Model : -30
height : 117 mm
width : 152 mm
mass : 2,0 kg
4 loops

(**Model : -30-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 10,8 mm
countersunk 90° in bar 1,
2 inserts M10 in bar 2.

Note : Standard models of this series have 4 loops.

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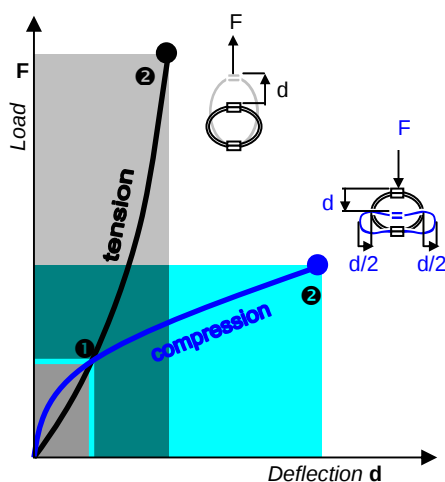
series

HH15

wire rope isolators

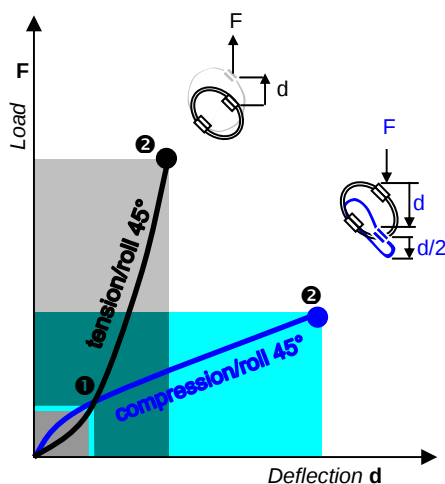
standard line "Half-Helical"

performances*



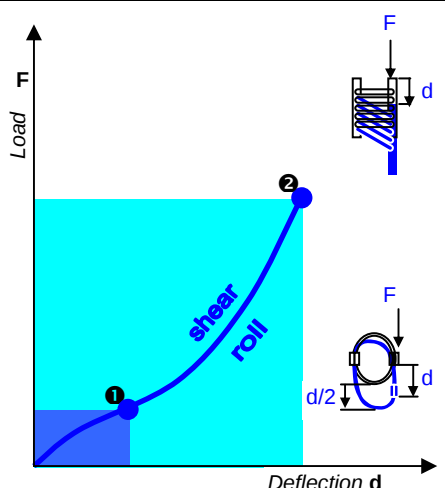
Compression and Tension

HH15 series	Model	-12	-15	-17	-20	-30	-40	-50	-60
Max static	F daN	436	356	305	237	185	157	136	128
①	d mm	6,0	7,1	7,8	9,3	11,0	12,3	14,0	15,8
Max shock	F daN	1309	1070	915	710	555	470	407	384
②	d mm	33	39	43	51	60	67	76	86
Max vibration	2a mm	3,6	4,3	4,7	5,6	6,6	7,3	8,3	9,4
③	f Hz	6,7	6,2	6,0	5,6	5,2	4,9	4,6	4,3
Max static	F daN	436	356	305	237	185	157	136	128
①	d mm	4,8	5,9	6,7	8,3	10,1	11,5	12,9	13,7
Max shock	F daN	4614	3838	3433	2778	2254	1944	1660	1452
②	d mm	22	27	32	41	52	60	67	66
Max vibration	2a mm	2,4	3,0	3,5	4,5	5,7	6,6	7,3	7,3
③	f Hz	9,3	8,4	7,8	7,0	6,3	5,9	5,6	5,5



Compression/roll 45°-Tension/roll 45°

HH15 series	Model	-12	-15	-17	-20	-30	-40	-50	-60
Max static	F daN	327	267	229	178	139	117	102	95,8
①	d mm	8,4	10,1	11,0	13,1	15,5	17,3	19,7	22,2
Max shock	F daN	805	660	569	446	350	298	257	239
②	d mm	49	58	63	76	89	100	113	128
Max vibration	2a mm	5,3	6,4	7,0	8,3	9,8	11,0	12,5	14,1
③	f Hz	5,7	5,3	5,1	4,7	4,4	4,2	3,9	3,6
Max static	F daN	327	267	229	178	139	117	102	95,8
①	d mm	7,5	9,1	10,4	12,8	15,5	17,3	19,7	21,2
Max shock	F daN	2243	1868	1677	1362	1108	957	817	710
②	d mm	25	31	37	47	59	69	76	75
Max vibration	2a mm	2,8	3,4	4,0	5,2	6,5	7,5	8,4	8,3
③	f Hz	8,4	7,6	7,1	6,4	5,8	5,4	5,1	5,0



Shear or roll

HH15 series	Model	-12	-15	-17	-20	-30	-40	-50	-60
Max static	F daN	218	178	152	118	92,4	78,3	67,8	63,9
①	d mm	11,3	13,5	14,8	17,6	20,8	23,3	26,4	29,9
Max shock	F daN	1272	1027	905	712	564	479	404	352
②	d mm	32	39	44	55	67	76	85	90
Max vibration	2a mm	3,5	4,2	4,8	6,0	7,3	8,4	9,4	9,9
③	f Hz	7,0	6,4	6,0	5,4	4,9	4,6	4,3	4,2

- 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.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

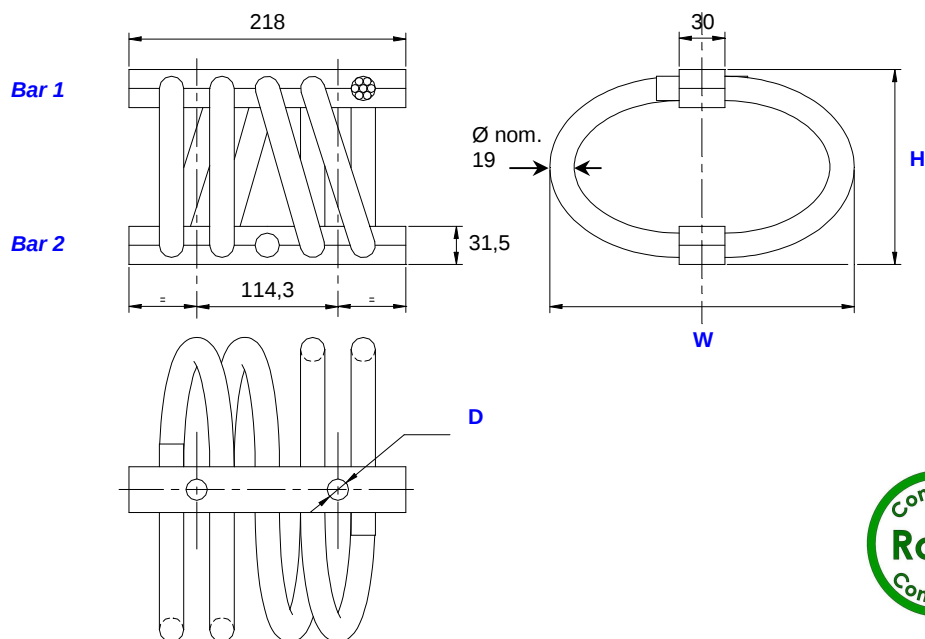
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series
HH16

definition



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



Series	Model				Interfaces	Bar 1		
Materials and finishes		height H (mm)	width W (mm)	mass (kg)	fixture holes D	2 through holes Ø 13,5 mm	2 through holes Ø 13,5 mm countersunk 90°	2 inserts M12
HH16 Cable : stainless steel. (<i>galvanised</i> HHG16) Retainer bars : Aluminium alloy/Surtec 650 Screws : alloy steel/zinc plate. (Inserts : stainless steel). <i>All stainless steel version</i> HHSS16	-15	98	115	2,55	Bar 2			
	-17	104	125	2,70	2 through holes Ø 13,5 mm	TM2	<i>not standard</i>	<i>not standard</i>
	-20	110	135	2,90	2 through holes Ø 13,5 mm countersunk 90°	TCM	CM2	<i>not standard</i>
	-25	117	145	3,10	2 inserts M12	TIM	CIM	IM2
	-30	125	160	3,30				
	-40	135	175	3,50				
	-50	145	185	3,65				
	-60	160	200	3,90				
<i>Other materials on request.</i>	-70	175	215	4,15				

Example :
HH16-30CIM

Prefix :
"Half Helical" mount
from the **HH16** series

Model : -30
height : 125 mm
width : 160 mm
mass : 3,3 kg
4 loops

(**Model : -30-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes $\varnothing 13,5$ mm
countersunk 90° in bar 1,
2 inserts M12 in bar 2.

Note : Standard models of this series have 4 loops.

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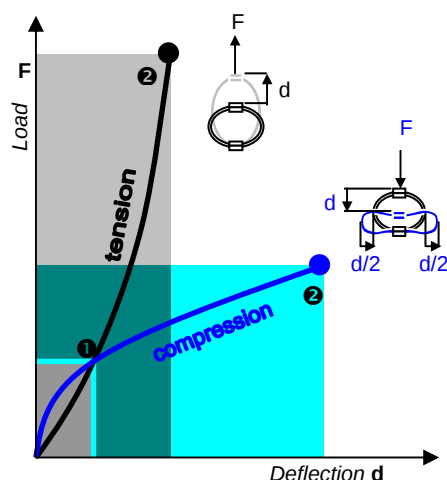
series

HH16

wire rope isolators

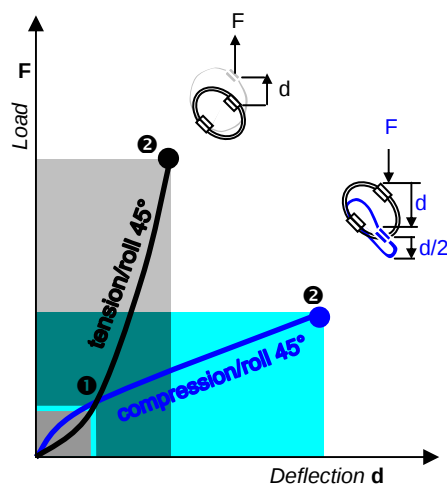
standard line "Half-Helical"

performances*



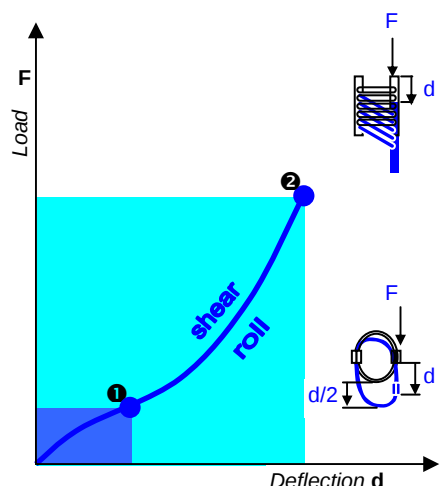
Compression and Tension

HH16 series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
Max static	F daN	564	487	424	376	315	272	253	227	205
①	d mm	5,9	6,8	7,7	9,0	10,3	12,0	13,7	16,2	18,6
Max shock	F daN	1691	1460	1271	1128	944	815	757	679	613
②	d mm	32	37	42	49	56	65	74	88	101
Max vibration	2a mm	3,5	4,1	4,6	5,4	6,2	7,2	8,2	9,7	11,1
③	f Hz	6,9	6,4	6,1	5,6	5,3	4,9	4,7	4,2	3,9
Max static	F daN	564	487	424	376	315	272	253	227	205
①	d mm	5,0	6,0	6,9	8,0	9,6	11,2	12,3	13,9	15,5
Max shock	F daN	5468	4912	4402	3866	3414	2973	2644	2258	1962
②	D mm	22	28	33	38	47	56	59	64	69
Max vibration	2a mm	2,4	3,0	3,6	4,2	5,2	6,1	6,5	7,1	7,6
③	f Hz	9,2	8,4	7,7	7,2	6,6	6,1	5,9	5,5	5,3



Compression/roll 45°-Tension/roll 45°

HH16 series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
Max static	F daN	423	365	318	282	236	204	190	170	154
①	d mm	9,9	11,6	13,3	15,8	18,2	21,4	19,2	22,8	26,3
Max shock	F daN	1048	912	798	707	597	517	476	424	379
②	d mm	48	56	63	74	84	98	111	131	152
Max vibration	2a mm	5,3	6,1	6,9	8,1	9,2	10,7	12,2	14,5	16,7
③	f Hz	5,7	5,4	5,1	4,7	4,4	4,1	4,0	3,6	3,3
Max static	F daN	423	365	318	282	236	204	190	170	154
①	d mm	7,7	9,2	10,7	12,4	14,8	17,3	19,1	21,6	24,1
Max shock	F daN	4036	3638	3268	2867	2543	2215	1964	1671	1448
②	d mm	30	37	44	50	63	74	79	86	92
Max vibration	2a mm	3,3	4,0	4,8	5,5	7,0	8,2	8,7	9,4	10,1
③	f Hz	8,1	7,4	6,8	6,4	5,8	5,3	5,2	4,9	4,7



Shear or roll

HH16 series	Model	-15	-17	-20	-25	-30	-40	-50	-60	-70
Max static	F daN	282	243	212	188	157	136	127	114	103
①	d mm	11,2	12,9	14,7	17,1	19,6	22,7	25,9	30,6	35,3
Max shock	F daN	1974	1742	1531	1290	1132	957	842	706	603
②	d mm	35	42	49	56	68	79	86	97	108
Max vibration	2a mm	3,8	4,6	5,3	6,2	7,4	8,7	9,5	10,7	11,9
③	f Hz	6,9	6,3	5,9	5,4	5,0	4,6	4,4	4,1	3,9

- 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.
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 Contact us.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
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 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.

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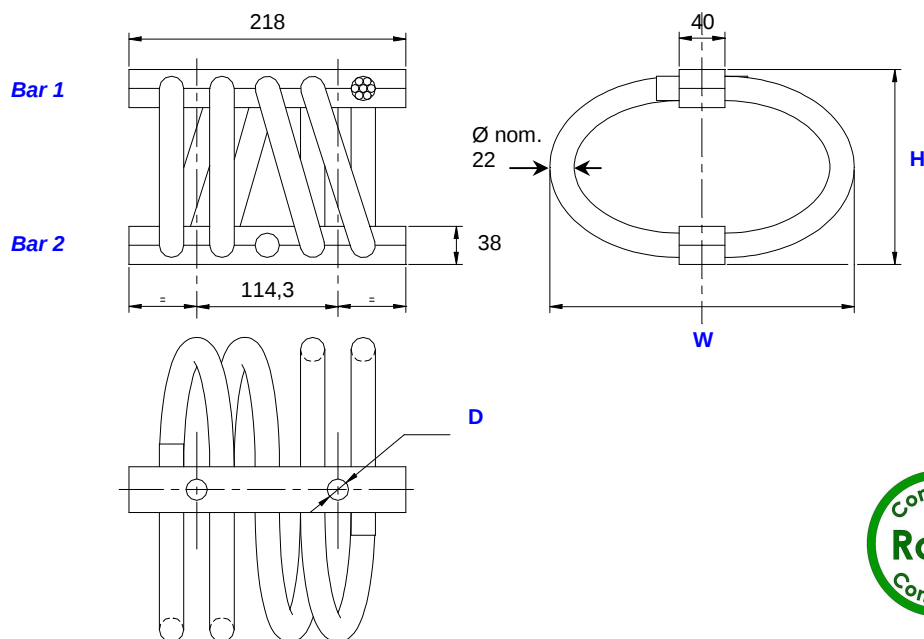


wire rope isolators

standard line "Half-Helical"

series
HH17

definition



Dimensions are in mm.

Dimensions for reference only.



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



Series

Materials and finishes

HH17
Cable : stainless steel.
(galvanised **HHG17**)
Retainer bars : Aluminium alloy/Surtec 650
Screws : alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS17**

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-15	133	140	4,2
-17	152	165	4,8
-20	159	178	5,0
-25	175	195	5,4
-30	190	210	5,8
-40	216	235	6,4

Interfaces

fixture holes
D

Bar 2

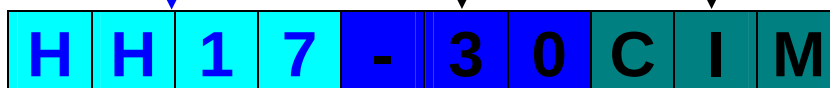
2 through holes
Ø 13,5 mm
2 through holes
Ø 13,5 mm
countersunk 90°

2 inserts M12

Bar 1

	2 through holes Ø 13,5 mm	2 through holes Ø 13,5 mm countersunk 90°	2 inserts M12
2 through holes Ø 13,5 mm	TM2	not standard	not standard
2 through holes Ø 13,5 mm countersunk 90°	TCM	CM2	not standard
2 inserts M12	TIM	CIM	IM2

Example :
HH17-30CIM



Prefix :
"Half Helical" mount
from the **HH17** series

Model : -30
height : 190 mm
width : 210 mm
mass : 5,8 kg
4 loops

(**Model : -30-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 13,5 mm
countersunk 90° in bar 1,
2 inserts M12 in bar 2.

Note : Standard models of this series have 4 loops.

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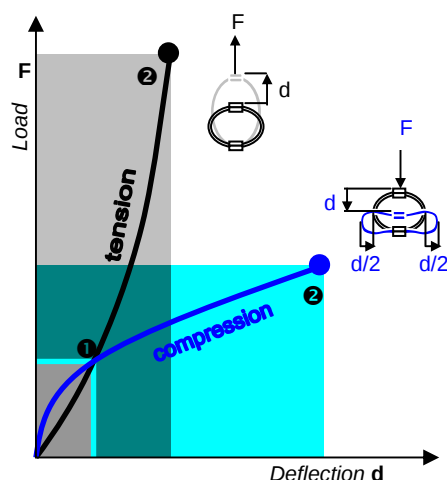
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HH17

wire rope isolators

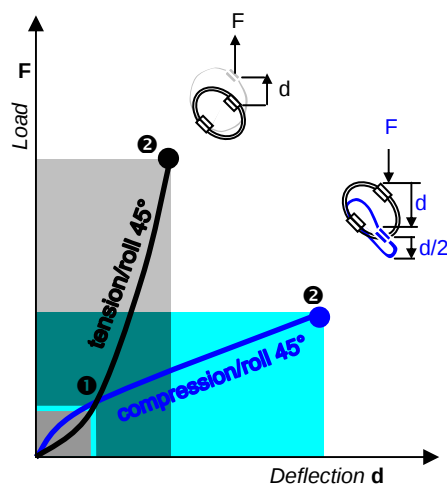
standard line "Half-Helical"

performances*



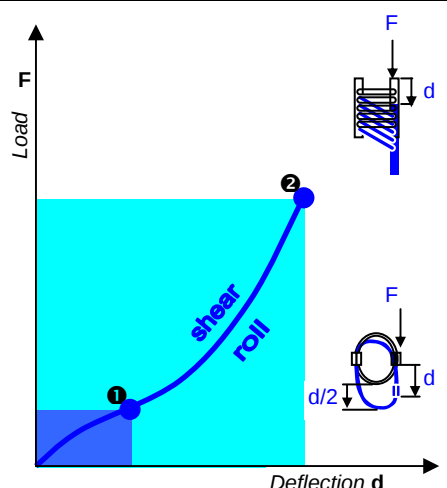
Compression and Tension

HH17 series	Model	-15	-17	-20	-25	-30	-40			
Max static	F daN	706	576	510	441	392	328			
1	d mm	11,0	13,9	15,8	18,3	20,5	24,2			
Max shock	F daN	2119	1727	1529	1322	1175	983			
2	d mm	63	76	86	101	114	138			
Max vibration	2a mm	6,9	8,4	9,5	11,1	12,5	15,2			
3	f Hz	4,4	4,1	3,9	3,6	3,3	3,0			
Max static	F daN	706	576	510	441	392	328			
1	d mm	7,4	9,6	10,9	12,5	14,0	16,4			
Max shock	F daN	5500	4703	4160	3554	3139	2564			
2	d mm	28	37	42	48	53	61			
Max vibration	2a mm	3,0	4,1	4,6	5,3	5,9	6,7			
3	f Hz	7,5	6,6	6,2	5,8	5,5	5,1			



Compression/roll 45°-Tension/roll 45°

HH17 series	Model	-15	-17	-20	-25	-30	-40			
Max static	F daN	530	432	382	331	294	246			
1	d mm	20,1	25,2	28,4	33,1	37,2	44,1			
Max shock	F daN	1255	1034	915	789	700	583			
2	d mm	95	114	129	152	171	207			
Max vibration	2a mm	10,4	12,5	14,2	16,7	18,8	22,8			
3	f Hz	3,7	3,4	3,2	2,9	2,8	2,5			
Max static	F daN	530	432	382	331	294	246			
1	d mm	11,6	15,0	17,0	19,6	21,9	25,6			
Max shock	F daN	3976	3417	3022	2579	2276	1855			
2	d mm	37	50	56	64	71	82			
Max vibration	2a mm	4,0	5,5	6,2	7,0	7,8	9,0			
3	f Hz	6,7	5,9	5,5	5,1	4,9	4,5			



Shear or roll

HH17 series	Model	-15	-17	-20	-25	-30	-40			
Max static	F daN	353	288	255	220	196	164			
1	d mm	22,0	26,6	30,1	35,3	39,9	48,2			
Max shock	F daN	1702	1451	1269	1058	927	734			
2	d mm	55	69	78	91	102	120			
Max vibration	2a mm	6,0	7,6	8,6	10,0	11,2	13,2			
3	f Hz	5,2	4,7	4,4	4,1	3,8	3,5			

- 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)

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 Contact us.

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Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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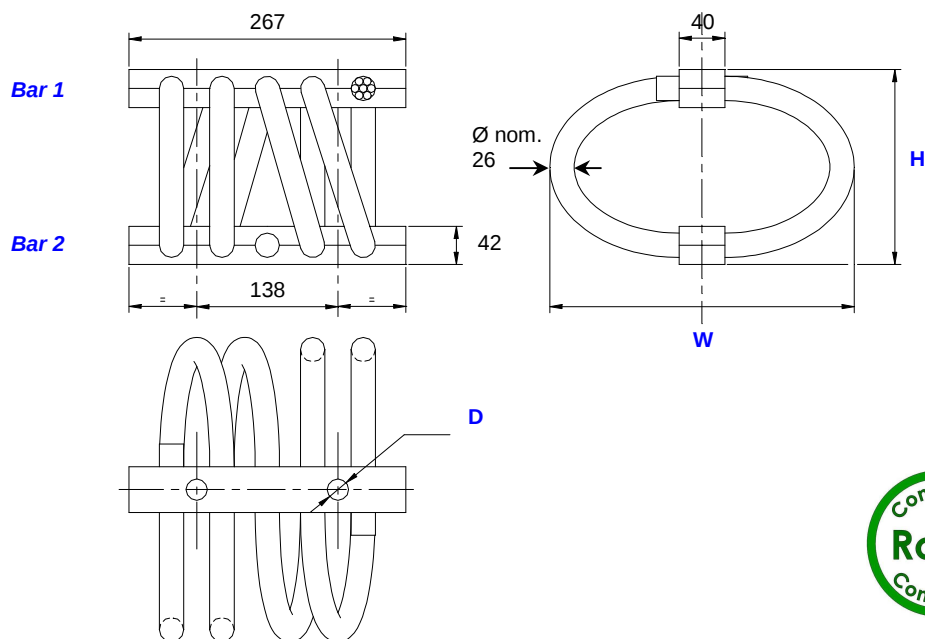


wire rope isolators

standard line "Half-Helical"

series
HH18

definition



Dimensions are in mm.

Dimensions for reference only.

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



Series

Materials and finishes

HH18
Cable :
stainless steel.
(galvanised **HHG18**)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS18**

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-12	133	172	5,4
-15	147	187	5,9
-17	163	205	6,5
-20	182	225	7,1
-30	203	249	7,9
-40	228	276	8,7
-50	256	308	9,8

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 17,5 mm

2 through holes
Ø 17,5 mm
countersunk 90°

2 inserts M16

Bar 1

	2 through holes Ø 17,5 mm	2 through holes Ø 17,5 mm countersunk 90°	2 inserts M16
2 through holes Ø 17,5 mm	TM2	not standard	not standard
2 through holes Ø 17,5 mm countersunk 90°	TCM	CM2	not standard
2 inserts M16	TIM	CIM	IM2

Example :
HH18-15CIM

H H 1 8 - 1 5 C I M

Prefix :
"Half Helical" mount
from the **HH18** series

Model : -15
height : 147 mm
width : 187 mm
mass : 5,9 kg
4 loops

(**Model : -15-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 17,5 mm
countersunk 90° in bar 1,
2 inserts M16 in bar 2.

Note : Standard models of this series have 4 loops.

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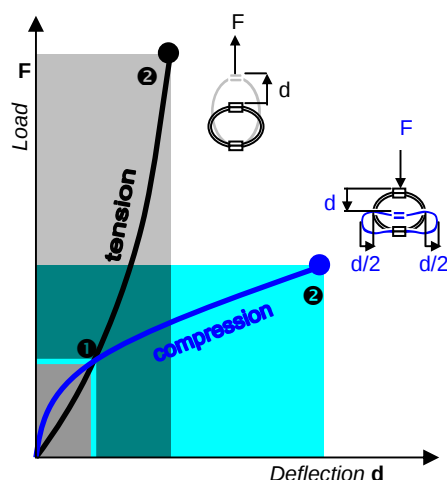
series

HH18

wire rope isolators

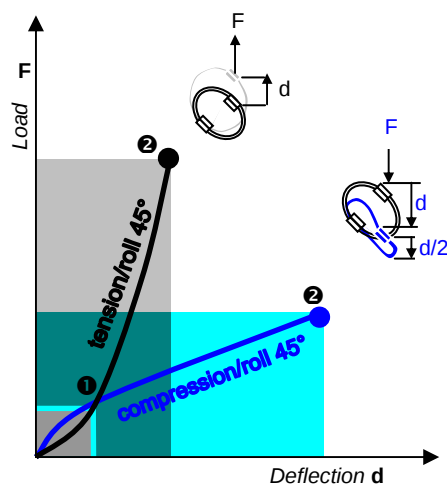
standard line "Half-Helical"

performances*



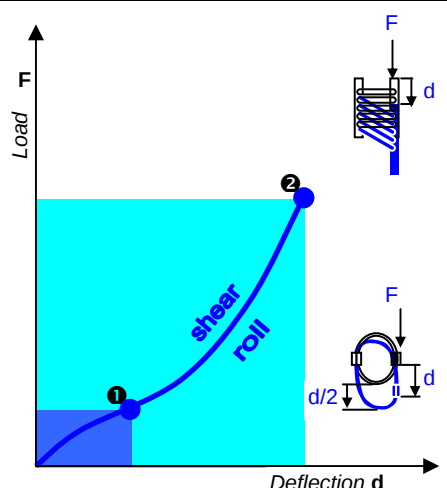
Compression and Tension

HH18 series	Model	-12	-15	-17	-20	-30	-40	-50		
Max static	F daN	983	849	714	599	492	404	328		
1	d mm	8.1	10.5	13.1	16.3	19.8	23.9	28.6		
Max shock	F daN	2949	2546	2141	1796	1476	1213	983		
2	d mm	44	57	71	88	107	130	155		
Max vibration	$2a$ mm	4.9	6.2	7.8	9.7	11.8	14.3	17.0		
3	f Hz	6.1	5.3	4.7	4.2	3.8	3.4	3.1		
Max static	F daN	983	849	714	599	492	404	328		
1	d mm	8.1	10.0	11.9	14.1	16.6	19.5	22.8		
Max shock	F daN	6497	5169	4118	3273	2613	2078	1655		
2	d mm	34	38	43	49	56	64	74		
Max vibration	$2a$ mm	3.7	4.2	4.8	5.4	6.2	7.0	8.1		
3	f Hz	7.5	6.8	6.3	5.8	5.3	4.9	4.6		



Compression/roll 45°-Tension/roll 45°

HH18 series	Model	-12	-15	-17	-20	-30	-40	-50		
Max static	F daN	737	637	535	449	369	303	246		
1	d mm	11.5	14.7	18.5	22.9	27.9	33.7	40.3		
Max shock	F daN	1899	1618	1348	1121	916	748	604		
2	d mm	66	85	107	132	161	194	232		
Max vibration	$2a$ mm	7.3	9.4	11.7	14.6	17.7	21.4	25.5		
3	f Hz	5.2	4.5	4.0	3.5	3.2	2.9	2.6		
Max static	F daN	737	637	535	449	369	303	246		
1	d mm	11.5	14.7	18.5	21.9	25.8	30.2	35.5		
Max shock	F daN	6704	5304	4209	3331	2653	2103	1673		
2	d mm	54	60	69	78	90	102	118		
Max vibration	$2a$ mm	5.9	6.7	7.6	8.6	9.9	11.2	13.0		
3	f Hz	6.3	5.8	5.3	4.9	4.5	4.2	3.9		



Shear or roll

HH18 series	Model	-12	-15	-17	-20	-30	-40	-50		
Max static	F daN	492	424	357	299	246	202	164		
1	d mm	15.4	19.8	24.9	30.8	37.4	45.3	54.1		
Max shock	F daN	3775	2902	2242	1737	1356	1058	829		
2	d mm	56	66	79	93	110	129	151		
Max vibration	$2a$ mm	6.1	7.3	8.7	10.2	12.1	14.2	16.6		
3	f Hz	5.6	5.0	4.5	4.1	3.8	3.5	3.2		

- 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.

01/07/2013

Typical shock/vibration specifications :

Ground Forces GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
 Air AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
 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.

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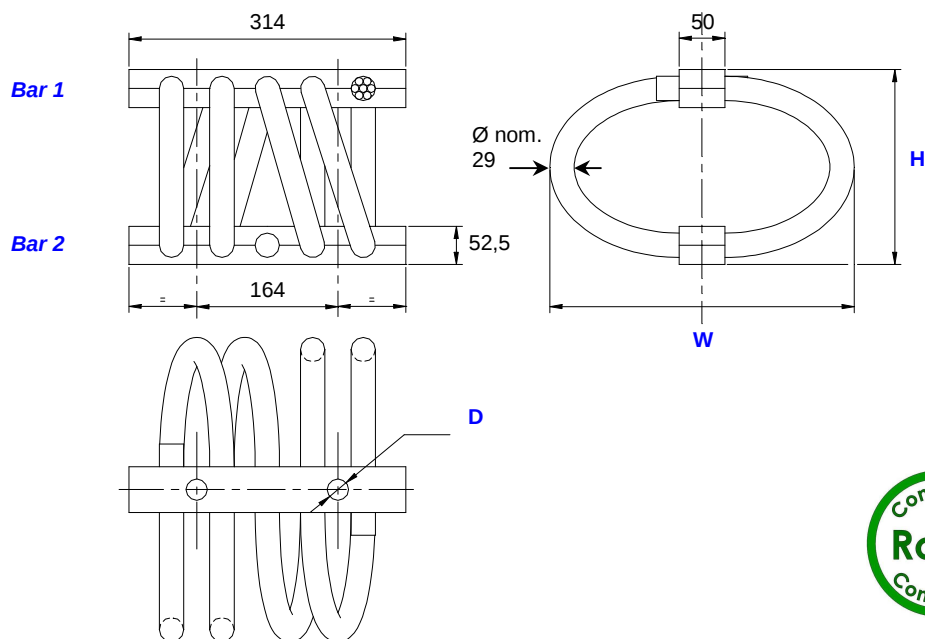


wire rope isolators

standard line "Half-Helical"

series
HH19

definition



Dimensions are in mm.

Dimensions for reference only.



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



Series

Materials and finishes

HH19
Cable :
stainless steel.
(galvanised **HHG19**)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS19**

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-10	182	216	10,5
-12	216	245	12,0
-15	235	264	12,5

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 20 mm
2 through holes
Ø 20 mm
countersunk 90°

2 inserts M18

Bar 1

2 through holes
Ø 20 mm

2 through holes
Ø 20 mm
countersunk 90°

2 inserts M18

TM2

not
standard

not
standard

TCM

CM2

not
standard

TIM

CIM

IM2

Example :
HH19-12CIM

H H 1 9 - 1 2 C I M

Prefix :
"Half Helical" mount
from the **HH19** series

Model : -12
height : 216 mm
width : 245 mm
mass : 12,0 kg
4 loops

(**Model : -12-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 20 mm
countersunk 90° in bar 1,
2 inserts M18 in bar 2.

Note : Standard models of this series have 4 loops.

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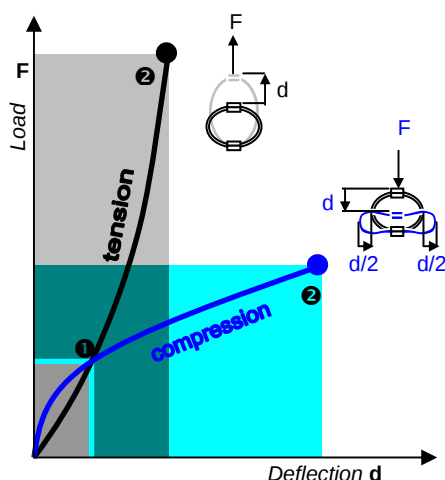


HH19

wire rope isolators

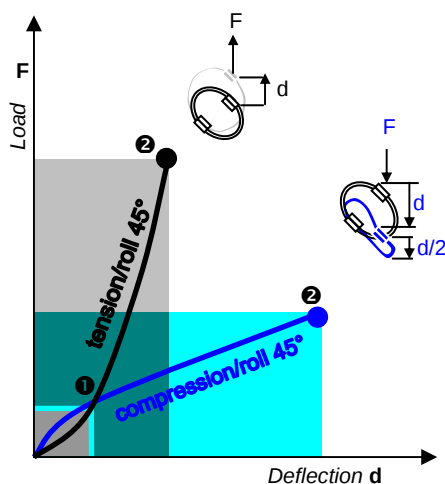
standard line "Half-Helical"

*performances**



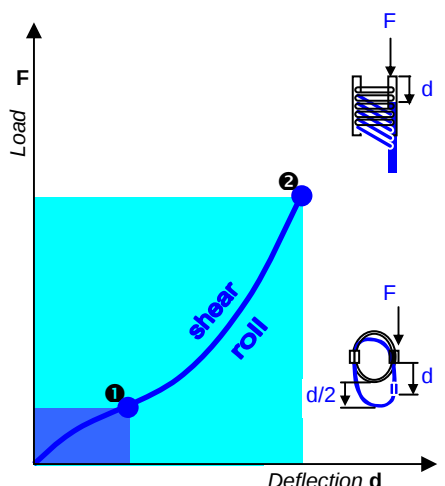
Compression and Tension

HH19 series	Model	-10	-12	-15						
Max static	F daN	920	779	694						
①	d mm	12,7	18,4	21,6						
Max shock	F daN	2760	2336	2081						
②	d mm	69	100	117						
Max vibration	2a mm	7,6	11,0	12,9						
③	f Hz	4,7	3,8	3,4						
Max static	F daN	920	779	694						
①	d mm	11,0	14,0	15,9						
Max shock	F daN	9181	6866	5977						
②	d mm	50	58	64						
Max vibration	2a mm	5,5	6,3	7,1						
③	f Hz	6,2	5,5	5,2						



Compression/roll 45°-Tension/roll 45°

HH19 series		Model	-10	-12	-15						
Max static ①	F daN	690	584	520							
	d mm	22,8	34,1	40,2							
Max shock ②	F daN	1721	1421	1260							
	d mm	104	150	176							
Max vibration ③	2a mm	11,4	16,5	19,3							
	f Hz	3,9	3,1	2,8							
Max static ①	F daN	690	584	520							
	d mm	17	22	25							
Max shock ②	F daN	6793	5026	4365							
	d mm	67	77	86							
Max vibration ③	2a mm	7,4	8,4	9,4							
	f Hz	5,4	4,9	4,6							



Shear or roll

HH19 series		Model	-10	-12	-15						
➊	Max static	F daN	460	389	347						
		d mm	24,1	35,0	40,9						
➋	Max shock	F daN	3193	2220	1884						
		d mm	77	98	112						
➌	Max vibration	2a mm	8,4	10,8	12,3						
		f Hz	4,6	4,0	3,7						

- ➊ Max static load (**F**) with corresponding deflection (**d**)
- ➋ Max shock load (**F**) with corresponding deflection (**d**)
- ➌ Uncoupled resonant frequency (**f**) under max static loading ➊ 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.

01/07/2013

Typical shock/vibration specifications :

Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
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.

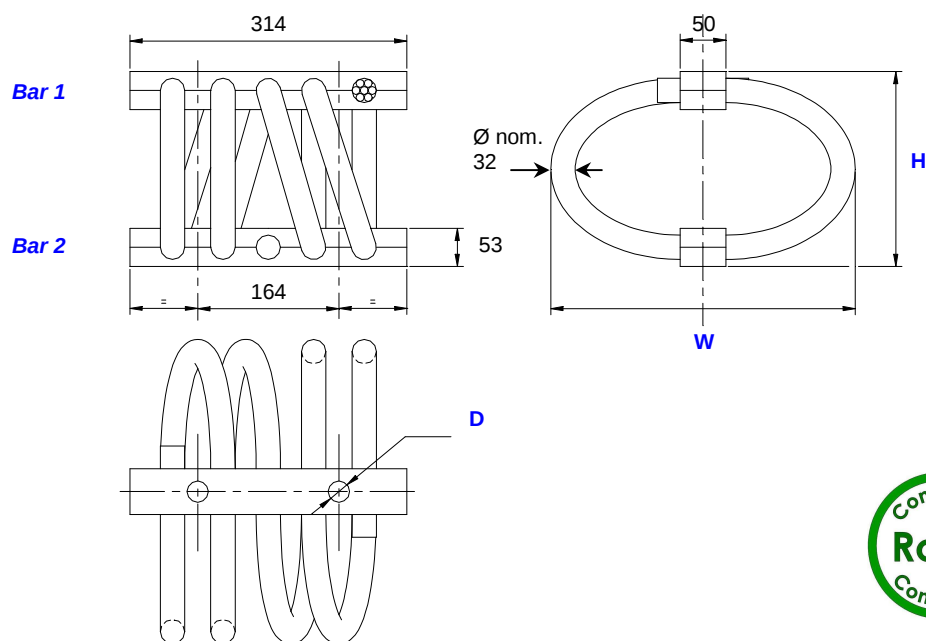
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series
HH20

definition



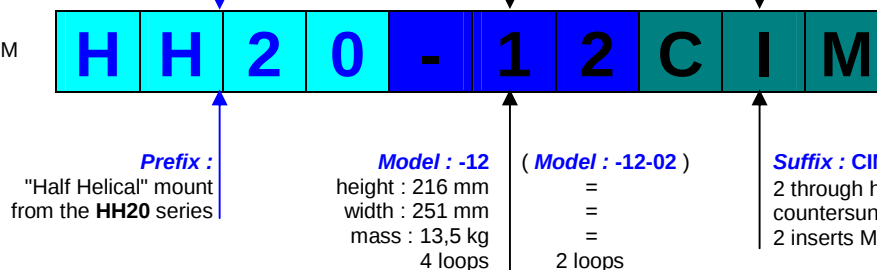
Dimensions are in mm.

Dimensions for reference only.

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



Series	Model				Interfaces	Bar 1		
Materials and finishes		height H (mm)	width W (mm)	mass (kg)	fixture holes D	2 through holes Ø 20 mm	2 through holes Ø 20 mm countersunk 90°	2 inserts M18
HH20	-10	182	210	12,0				
Cable : stainless steel. (<i>galvanised HHG20</i>)	-12	216	251	13,5				
Retainer bars : Aluminium alloy/Surtec 650	-15	235	270	14,3	Bar 2	2 through holes Ø 20 mm	2 through holes Ø 20 mm countersunk 90°	2 inserts M18
Screws : alloy steel/zinc plate. (Inserts : stainless steel).					2 through holes Ø 20 mm countersunk 90°	TM2	<i>not standard</i>	<i>not standard</i>
<i>All stainless steel version HHSS20</i>						TCM	CM2	<i>not standard</i>
<i>Other materials on request.</i>					2 inserts M18	TIM	CIM	IM2



Note : Standard models of this series have 4 loops.

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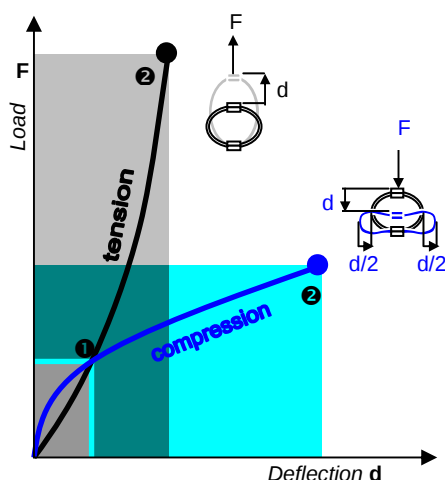
series

HH20

wire rope isolators

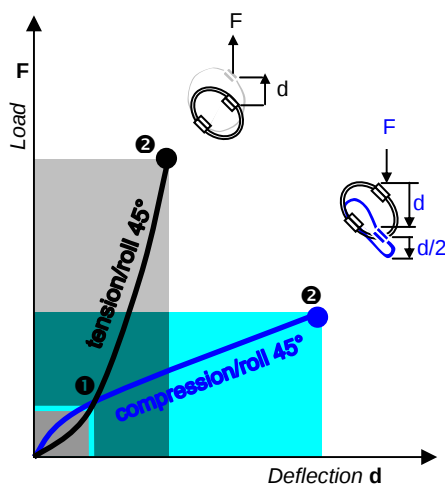
standard line "Half-Helical"

performances*



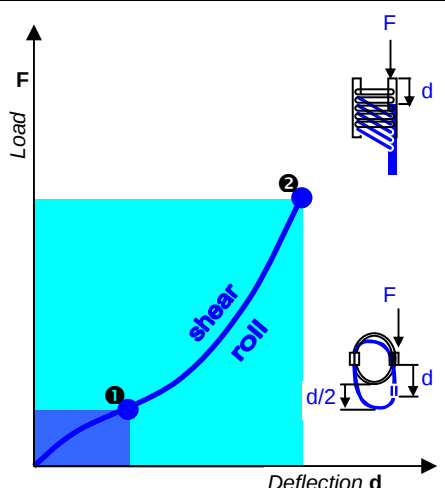
Compression and Tension

HH20 series	Model	-10	-12	-15										
Max static	F daN	1409	1145	1001										
①	d mm	12,7	18,1	21,6										
Max shock	F daN	4228	3434	3002										
②	d mm	69	98	117										
Max vibration	$2a$ mm	7,6	10,8	12,9										
③	f Hz	4,7	3,8	3,5										
Max static	F daN	1409	1145	1001										
①	d mm	10,6	13,9	16,2										
Max shock	F daN	13603	10249	8745										
②	d mm	47	58	67										
Max vibration	$2a$ mm	5,2	6,4	7,3										
③	f Hz	6,3	5,5	5,2										



Compression/roll 45°-Tension/roll 45°

HH20 series	Model	-10	-12	-15										
Max static	F daN	1057	859	751										
①	d mm	22,8	33,4	30,5										
Max shock	F daN	2619	2096	1824										
②	d mm	104	147	176										
Max vibration	$2a$ mm	11,4	16,2	19,4										
③	f Hz	3,9	3,2	3,0										
Max static	F daN	1057	859	751										
①	d mm	16,5	21,7	25,2										
Max shock	F daN	10037	7512	6396										
②	d mm	63	78	89										
Max vibration	$2a$ mm	7,0	8,5	9,7										
③	f Hz	5,5	4,9	4,6										



Shear or roll

HH20 series	Model	-10	-12	-15										
Max static	F daN	705	572	501										
①	d mm	24,1	34,3	41,0										
Max shock	F daN	4696	3331	2762										
②	d mm	74	98	114										
Max vibration	$2a$ mm	8,1	10,7	12,5										
③	f Hz	4,7	4,0	3,7										

- 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.

01/07/2013

Typical shock/vibration specifications :

Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
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.

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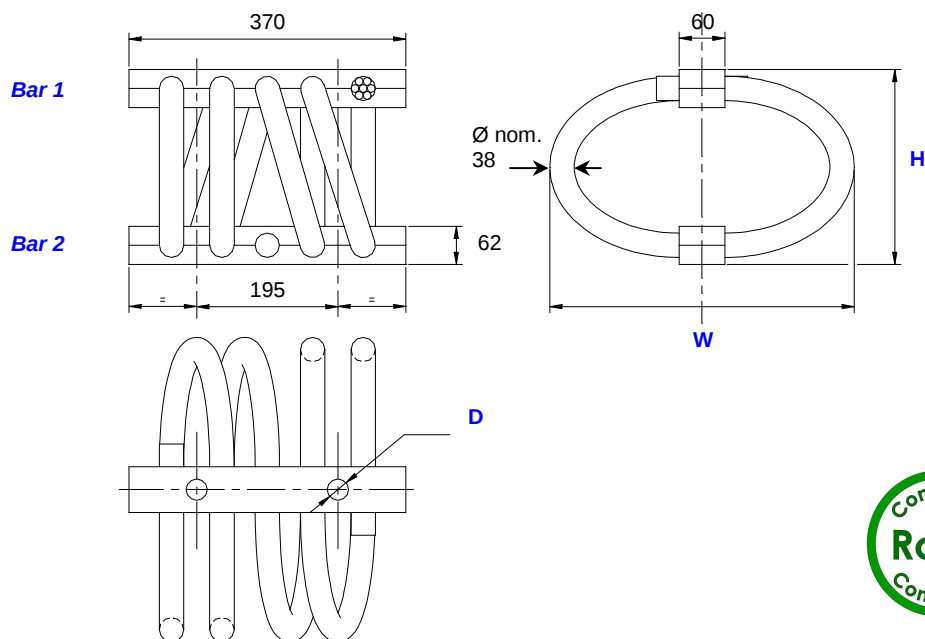


wire rope isolators

standard line "Half-Helical"

series
HH21

definition



Dimensions are in mm.

Dimensions for reference only.

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



Series

Materials and finishes

HH21
Cable :
stainless steel.
(galvanised **HHG21**)
Retainer bars :
Aluminium alloy/Surtec 650
Screws :
alloy steel/zinc plate.
(Inserts : stainless steel).
All stainless steel version **HHSS21**

Other materials on request.

Model

	height H (mm)	width W (mm)	mass (kg)
-10	195	250	16.0
-12	230	280	17.5

Interfaces

fixture holes
D

Bar 2

2 through holes
Ø 21 mm

2 through holes
Ø 21 mm
countersunk 90°

2 inserts M20

Bar 1

2 through holes Ø 21 mm	2 through holes Ø 21 mm countersunk 90°	2 inserts M20
TM2	not standard	not standard
TCM	CM2	not standard
TIM	CIM	IM2

Example :
HH21-10CIM

H H 2 1 - 1 0 C I M

Prefix :
"Half Helical" mount
from the **HH21** series

Model : -10
height : 195 mm
width : 250 mm
mass : kg
4 loops

(**Model : -10-02**)
=
=
=
2 loops

Suffix : CIM
2 through holes Ø 21 mm
countersunk 90° in bar 1,
2 inserts M20 in bar 2.

Note : Standard models of this series have 4 loops.

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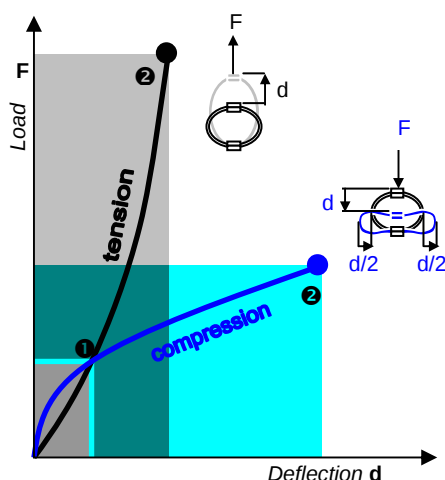


HH21

wire rope isolators

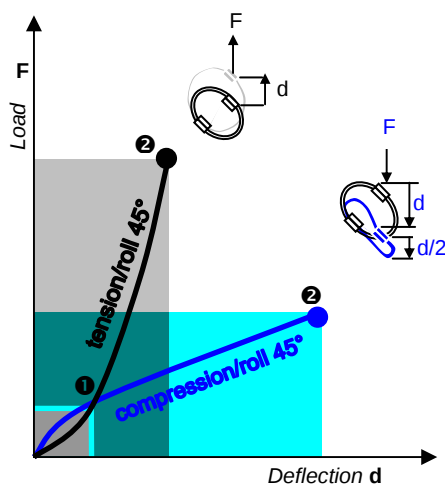
standard line "Half-Helical"

*performances**



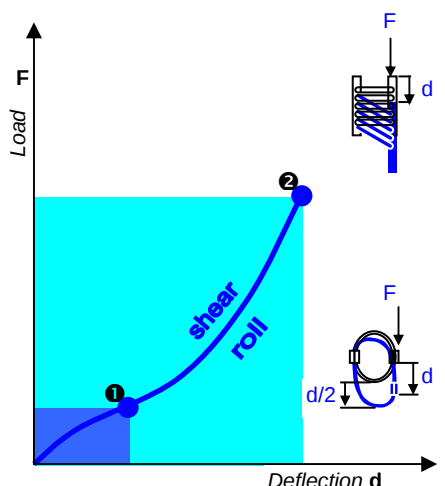
Compression and Tension

HH21 series		Model	-10	-12							
Max static ①	F	daN	1759	1468							
	d	mm	11.8	17.6							
Max shock ②	F	daN	5278	4403							
	d	mm	64	95							
Max vibration ③	2a	mm	7.0	10.5							
	f	Hz	5.1	4.0							
Max static ①	F	daN	1759	1468							
	d	mm	11.8	15.4							
Max shock ②	F	daN	11574	8105							
	d	mm	48	54							
Max vibration ③	2a	mm	5.3	5.9							
	f	Hz	6.2	5.5							



Compression/roll 45°-Tension/roll 45°

HH21 series		Model	-10	-12							
Max static ①	F	daN	1320	1101							
	d	mm	16.6	24.8							
Max shock ②	F	daN	3396	2752							
	d	mm	96	143							
Max vibration ③	2a	mm	10.5	15.7							
	f	Hz	4.3	3.4							
Max static ①	F	daN	1320	1101							
	d	mm	16.6	23.9							
Max shock ②	F	daN	11940	8255							
	d	mm	77	86							
Max vibration ③	2a	mm	8.5	9.4							
	f	Hz	5.2	4.7							



Shear or roll

HH21 series	Model	-10	-12							
Max static	F daN	880	734							
❶	d mm	22.2	33.4							
Max shock	F daN	6755	4495							
❷	d mm	80	101							
Max vibration	2a mm	8.8	11.2							
❸	f Hz	4.6	4.0							

- ➊ Max static load (**F**) with corresponding deflection (**d**)
- ➋ Max shock load (**F**) with corresponding deflection (**d**)
- ➌ Uncoupled resonant frequency (**f**) under max static loading ➊ 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.

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Typical shock/vibration specifications :

Ground Forces	GAM EG13A, SEFT 001, MIL-STD-810, VG 95332.
Air	AIR 7306, MIL-E-5400, MIL-C-172, MIL-STD-810.
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.

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