

Shock Absorbers and Rate Controls



ENIDINE



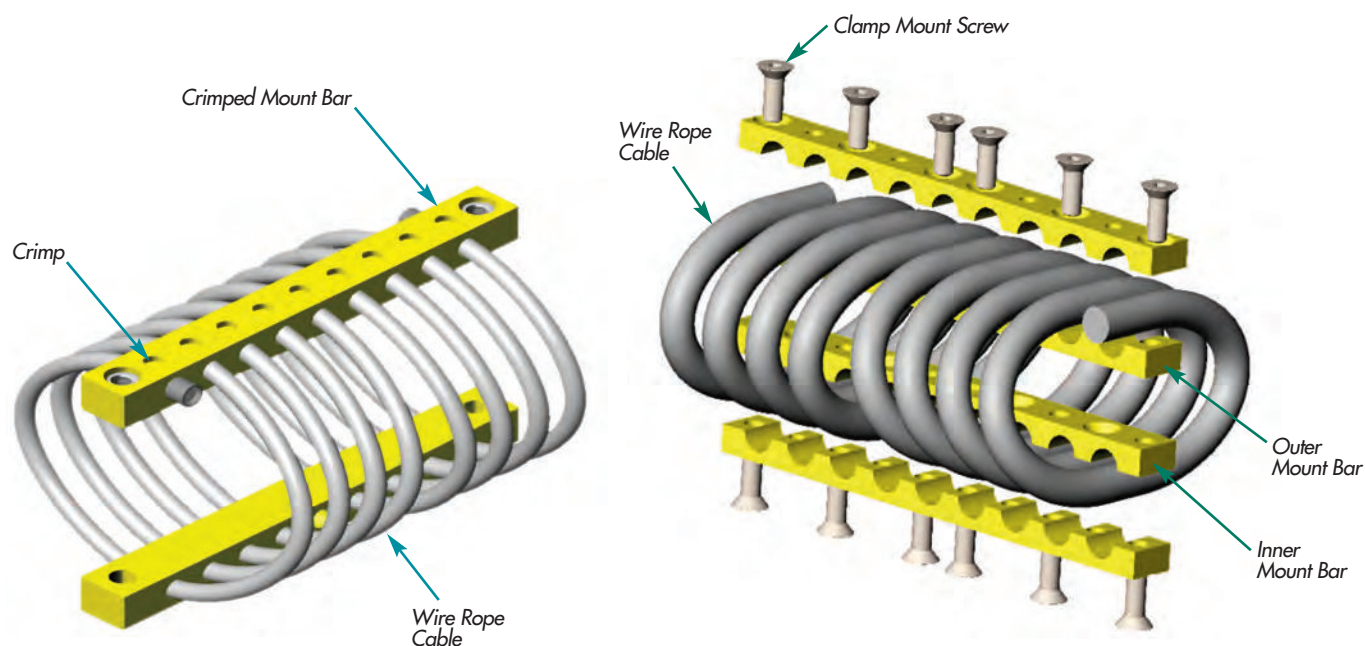


U.S. Patents 5,549,285

Wire Rope Isolators

Standard **Wire Rope Isolators** are comprised of stainless steel stranded cable threaded through aluminum alloy retaining bars that are mounted for effective shock and vibration isolation. With their corrosion resistant, all-metal construction, ITT Enidine Wire Rope Isolators are environmentally stable, high-performance shock and vibration isolators that are unaffected by temperature extremes, chemicals, oils, ozone and abrasives.

Featuring a patented crimping pattern, versatile mounting options and a variety of sizes, these helical isolator products can help ensure that your systems can effectively meet performance requirements in Commercial, Industrial, and Defense industries, including MIL-STD-810, MIL-STD-167, MIL-S-901D, MIL-E-5400, STANAG-042, BV43-44 and DEF-STND 0755. For more information, please refer to our "Wire Rope Isolator Overview and Application Worksheet" on pages 107-108 to assist you in selecting a model for your application.



Crimp Models (WR2 – WR8):

ITT Enidine's patented crimp design lowers cost by using fewer mount bars when compared to the clamp design, no assembly hardware, and reduced assembly time.

Clamp Models (WR12 – WR40):

ITT Enidine's clamp bar models are constructed by clamping the wire rope between two fastened mount bars.

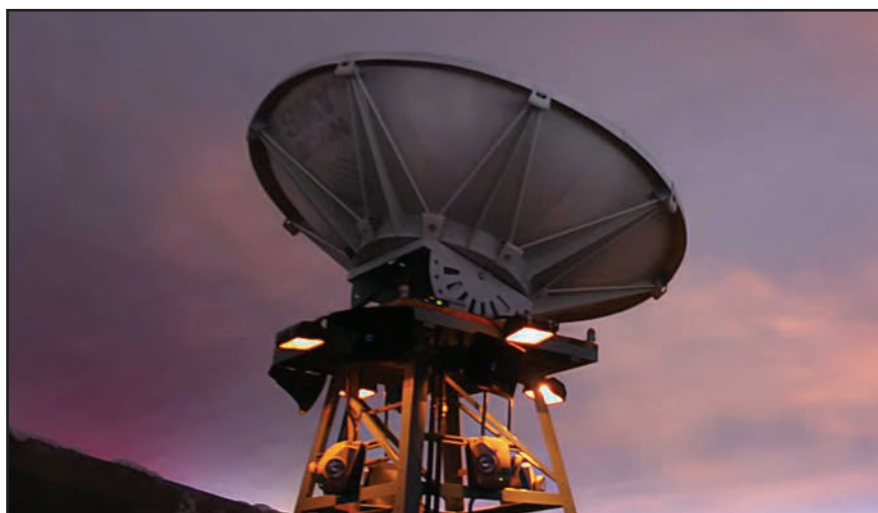
Typical Applications



Piping Systems



Cabinet Applications



Wire Rope Isolators

WR Series

Overview

Materials and Finishes:

Standard: Wire Rope: 302/304 Stainless Steel
Mount Bars: 6061-T6 Aluminum, Chemical Conversion Coated per MIL-C-5541, Class 1A (RoHS Compliant)
Hardware: Alloy Steel per ASTM F835, Zinc Plated (WR12–WR40 Series)
Thread: Stainless Self Clinching Insert (WR2–WR8 Series), Threaded bar (WR12–WR40 Series)

Optional: Wire Rope: Galvanized or Nylon Coated Stainless
Mount Bars: 6061-T6 Aluminum, Anodized per MIL-A-8625, Type II, Class 1 (RoHS Compliant)
302/304 Stainless Steel per ASTM A276, Passivated
Hardware: 302/304 Stainless Steel (when stainless steel bars are specified) (WR12 – WR40)
Threads: Stainless Steel Helical Inserts, Free Running or Self Locking (WR3 – WR40)
Threaded Aluminum (WR2 – WR8)

Special: Consult ITT Enidine

Isolator Options:

Mounting: ITT Enidine offers a full range of mounting combinations of thru-hole, countersunk, and threaded bars. All configurations are available in either Imperial or Metric styles. Add an “M” after the mounting option for Metric. Some models have reduced mounting options available due to limited fastener installation space. Consult ITT Enidine if a preferred mounting configuration is not listed.

Loops: ITT Enidine’s wire rope isolators can be purchased with the full number of loops, or as few as 2-Loops. The number of loops is indicated in the isolator part number. Performance is provided for full loop isolators. Performance for reduced loop isolators can be obtained by a simple ratio.

Bellmouth: ITT Enidine’s wire rope isolators are available with a “bellmouth” option. The bellmouth feature includes mount bars with radii manufactured into the wire rope hole edges. This option is recommended for high fatigue applications. Add an “R” to the end of the part number.

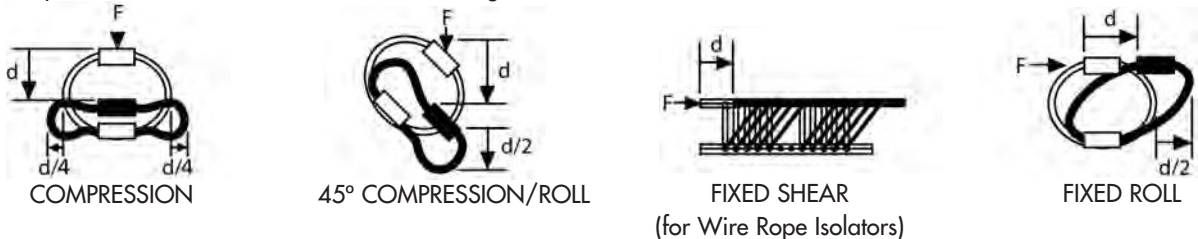
Performance:

Stiffness (Kv or Ks):

Wire rope isolators exhibit non-linear stiffness behavior. Small deflections, usually associated with vibration isolation, will have a different spring rate than larger shock deflections. ITT Enidine publishes typical vibration stiffness values (Kv), and average shock stiffness values (Ks) within the catalog. These values can be used with the provided equations listed on Page 108 to predict system performance. The stiffness values listed in the catalog are for full-loop versions. For reduced loop versions, ratio the stiffness by dividing the number of desired loops by the number of full loops.

Isolator Axes:

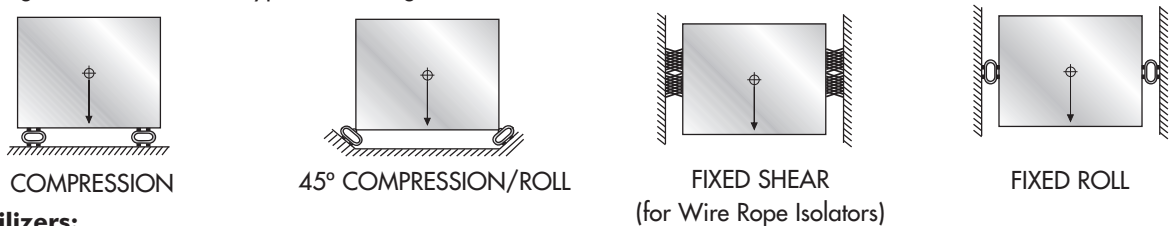
Wire rope isolators are multi-axis isolators. The diagram below includes load axis definitions and deflection considerations.



Damping: Typically 5-15%, depending on size and input level. For specific damping considerations, please consult ITT Enidine.

Mounting Orientation:

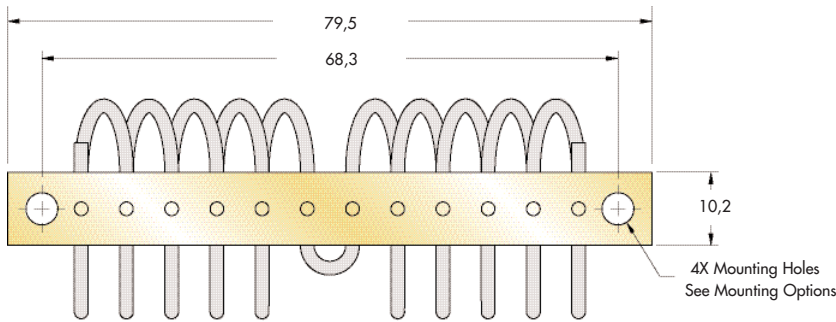
The diagrams below illustrate typical mounting orientations.



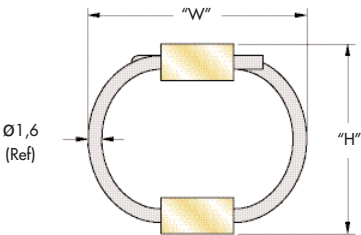
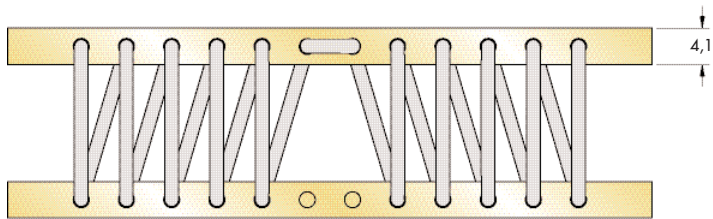
Stabilizers:

Stabilizers are used to control deflections of tall supported masses. Stabilizers are typically recommended when the height equals 2-times the width or depth dimension. In most applications, the quantity of stabilizers required are half as many as the base isolators, and selected one size softer than the base isolators.

APPLICATION WORKSHEET - INPUTS METRIC		METRIC
PART I: SYSTEM DATA:		
1. Total Supported Load (W _T):	$W_T = \text{_____ Kg} \times 9,81 = \text{_____ N}$	
2. Number of Isolators (n):	$n = \text{_____}$	
3. Static Load per Isolator (W):	$W = \frac{W_T}{n}$	W = _____ N*
* Assumes a central CG		
4. Load Axis: Compression Shear or Roll 45° Compression/Roll		Load Axis _____
PART II: VIBRATION SIZING:		
1. Input Excitation Frequency	$f_i = \text{_____ Hz} \left(= \frac{\text{rpm}}{60} \right)$	
2. System Response Natural Frequency for 80% isolation:	$f_n = \frac{f_i}{3,0} = \text{_____ Hz}$	
3. Maximum Isolator Vibration Stiffness: (K _v)	$K_v = \frac{W (2\pi f_n)^2}{g}$ $g = 9,81 \text{ m/s}^2$	K _v = _____ N/m
4. Select an isolator by comparing calculated values with technical data for the desired load axis provided in tables for each isolator. a.) Calculated "W" must be less than the isolator's max static load and b.) Isolator's vibration stiffness must be less than the calculated maximum K _v		
PART III: SHOCK SIZING:		
1. Maximum Allowable Transmitted Acceleration:	$A_T = \text{_____ G's}$	
2. Shock Input Velocity:	$V = \text{_____ m/s}$	
Free Fall Impact:	$V = \sqrt{2gh}$ $g = 9,81 \text{ m/s}^2$ $h = \text{Drop Height (m)}$	
3. Min. Isolator Response Deflection:	$D_{min} = \frac{V^2}{g(A_T)}$	D _{min} = _____ m
4. Maximum Isolator Shock Stiffness:	$K_s = \frac{W(V/D_{min})^2}{g}$	K _s = _____ N/m
5. Select an isolator by comparing calculated values with technical data for the desired load axis provided in tables for each isolator. a.) Calculated "W" must be less than the isolator's max static load and b.) Calculated D _{min} must be less than the isolator's max deflection Note: Metric deflections are calculated in meters (m) and technical data is in millimeters (mm). and c.) Isolator's shock stiffness must be less than calculated maximum "K _s "		
6. Check actual deflection using "K _s " from technical data to ensure that the isolator's max deflection is not exceeded.	$D_{actual} = \sqrt{\frac{V}{K_s(\text{Isolator})g}}$	D _{actual} = _____ m
7. If isolator's max deflection is exceeded, select another isolator and repeat steps 5 and 6.		



Note: Dimensions are in mm
Tolerances are $\pm 0,25\text{mm}$



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR2-100	18	± 1,52	25	0,02	B, D, E	Ø4,7 ± 0,13	M4 X 0,7	90°
WR2-200	20		28	0,02	A, B, C, D, E, S			
WR2-400	25		30	0,03				
WR2-600	28		33	0,03				
WR2-700	30		36	0,03				
WR2-800	33		38	0,03				

Model Number Ordering Code

WR2 - 400 - 10 D T M

Add "M" for Metric For C'sink and Threaded Options

Threaded Hole Options: [] - Flush Self Clinching Threaded Insert [T] - Tapped

Mounting Options: See Chart

Number of Loops: 10 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

Mounting Options

Thru

C'Sink

C'Sink

C'Sink

Thru

Thread

Thread

Thread

Thread

C'sink

Thru

Thru

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

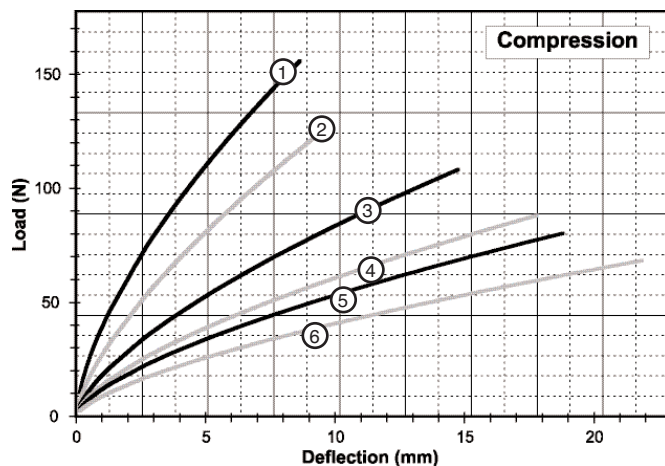
• Maximum recommended torque for standard threaded insert is 0,7 Nm

• Operating Temperature Range: -100°C to 260°C

• U.S. Patent 5,549,285

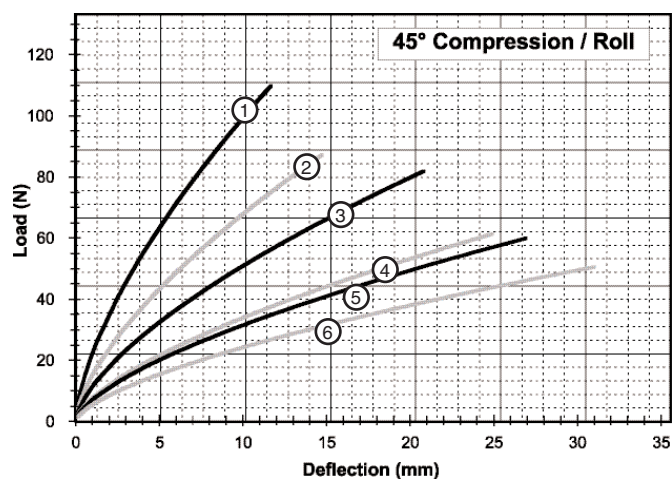
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Static Load vs. Deflection



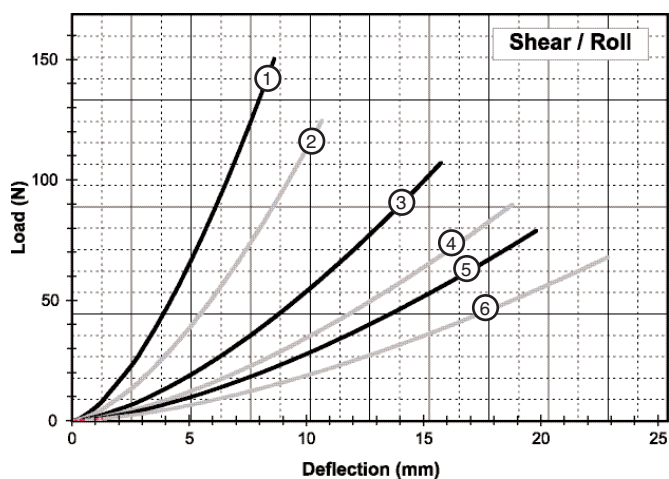
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR2-100-10	47	8,6	36	22
2	WR2-200-10	36	9,7	25	16
3	WR2-400-10	31	14,7	17	8,8
4	WR2-600-10	27	17,8	12	6,1
5	WR2-700-10	22	18,8	11	5,3
6	WR2-800-10	20	21,8	7,9	3,9



45° Compression/Roll

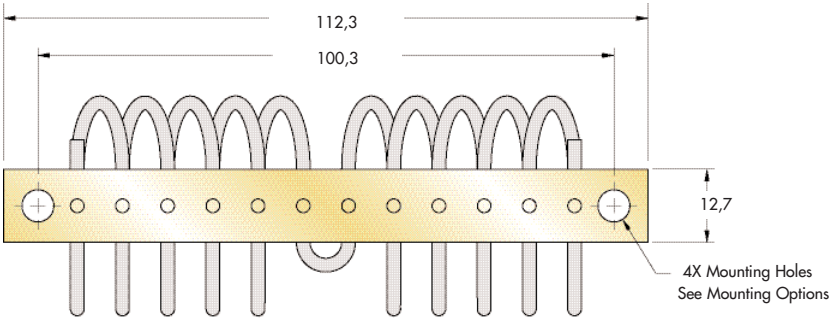
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR2-100-10	33	11,7	20	11,4
2	WR2-200-10	24	14,7	14	7,0
3	WR2-400-10	24	20,8	11	4,7
4	WR2-600-10	18	24,9	7,0	3,0
5	WR2-700-10	18	26,9	6,1	2,6
6	WR2-800-10	16	31,0	5,3	1,9



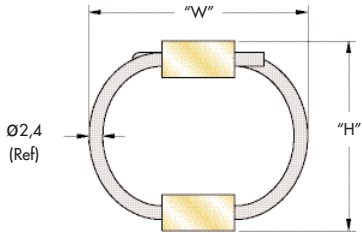
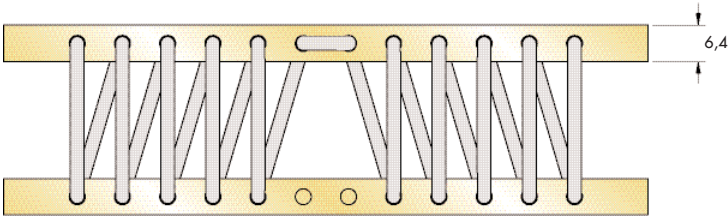
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) N/m	Ks (shock) kN/m
1	WR2-100-10	22	8,6	14	14
2	WR2-200-10	18	10,7	8,8	8,8
3	WR2-400-10	16	15,7	5,3	5,3
4	WR2-600-10	13	18,8	3,9	3,9
5	WR2-700-10	13	19,8	3,2	3,2
6	WR2-800-10	11	22,9	2,3	2,3

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR3-100	23	± 1,52	28	0,06	B, D, E	Ø5,3 ± 0,13	M5 X 0,8	90°
WR3-200	25		30	0,07	A, B, C, D, E, S			
WR3-400	28		33	0,07				
WR3-600	33		38	0,07				
WR3-700	36		41	0,07				
WR3-800	38		43	0,08				

Model Number Ordering Code

WR3 - 400 - 10 D T M

Add "M" for Metric For C'sink and Threaded Options

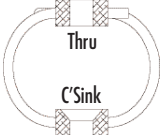
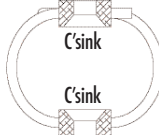
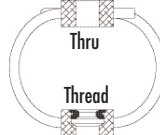
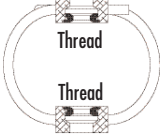
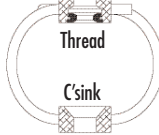
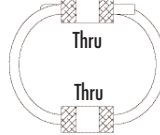
Threaded Hole Options: [] - Flush Self Clinching Threaded Insert
[T] - Tapped
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking

Mounting Options: See Chart

Number of Loops: 10 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

Mounting Options

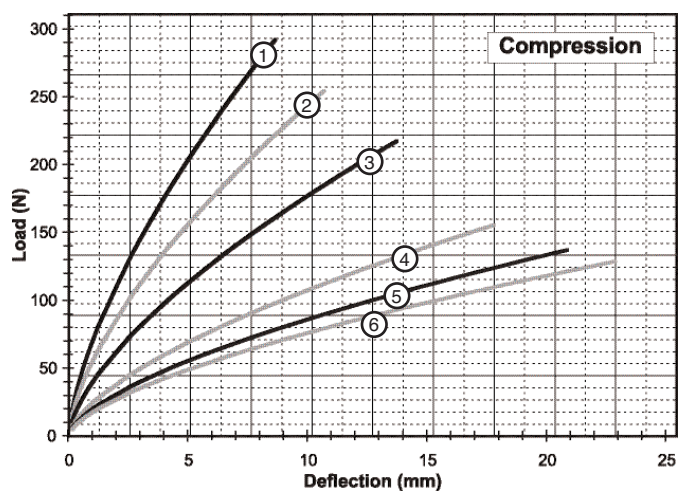
 Thru	 C'sink	 Thru
 Thread	 Thread	 Thru

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

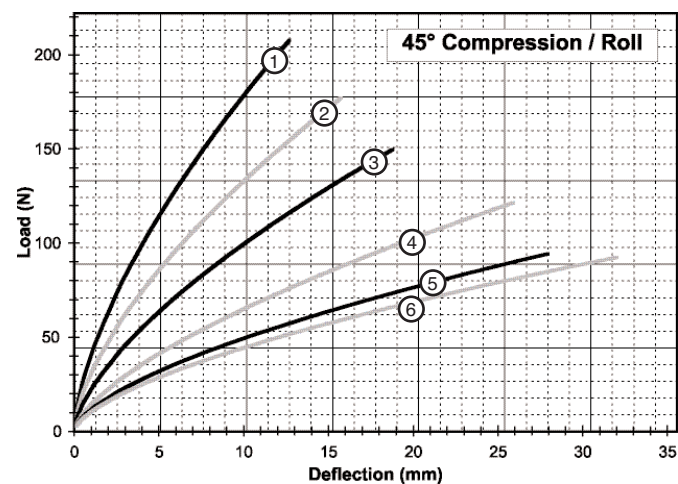
- Maximum recommended torque for standard threaded insert is 0,9 Nm
- Operating Temperature Range: -100°C to 260°C
- U.S. Patent 5,549,285

Static Load vs. Deflection



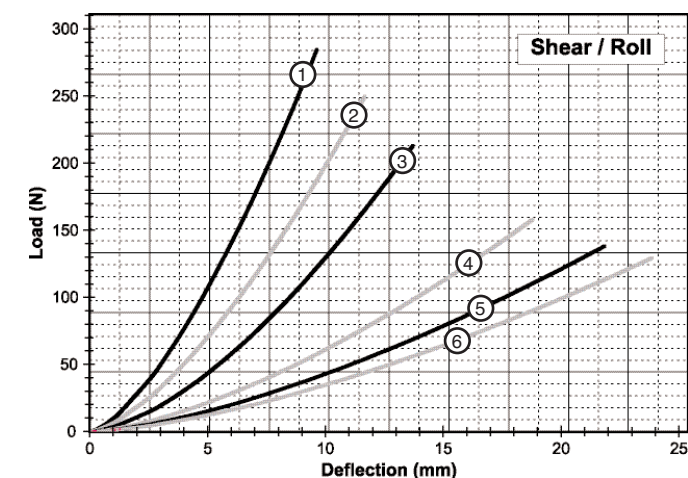
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR3-100-10	85	8,6	65	40
2	WR3-200-10	76	10,7	51	30
3	WR3-400-10	62	13,7	37	19
4	WR3-600-10	44	17,8	23	11
5	WR3-700-10	40	20,8	18	7,9
6	WR3-800-10	40	22,9	16	7,0



45° Compression/Roll

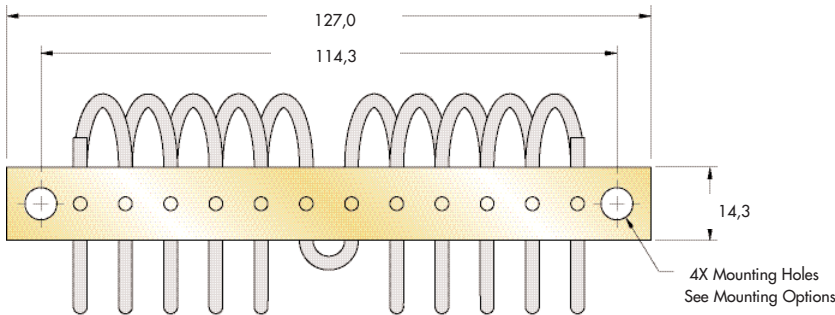
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR3-100-10	62	12,7	38	20
2	WR3-200-10	53	15,7	28	14
3	WR3-400-10	44	18,8	21	9,6
4	WR3-600-10	36	25,9	13	5,6
5	WR3-700-10	31	27,9	11	4,4
6	WR3-800-10	27	32,0	9,6	3,5



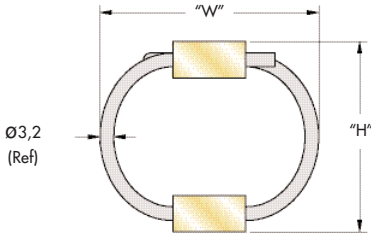
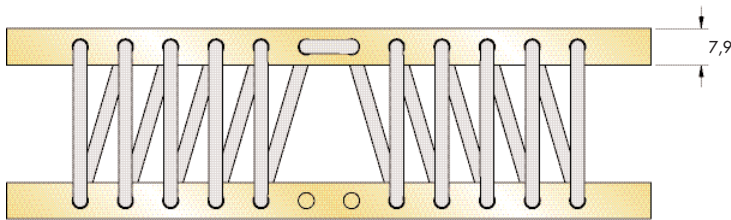
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR3-100-10	44	9,7	24	24
2	WR3-200-10	40	11,7	18	18
3	WR3-400-10	31	13,7	12	12
4	WR3-600-10	27	18,8	7,0	7,0
5	WR3-700-10	22	21,8	5,3	5,3
6	WR3-800-10	18	23,9	4,4	4,4

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are $\pm 0,25$ mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR4-100	28	± 1,52	36	B, D, E	Ø6,9 ± 0,13	M6 X 1,0	90°
WR4-200	30		38				
WR4-400	33		41	A, B, C, D, E, S			
WR4-500	36		43				
WR4-600	38		46				
WR4-700	41		48				
WR4-800	43		51				

Model Number Ordering Code

WR4 - 400 - 10 D T M

Add "M" for Metric

For C'sink and Threaded Options

Threaded Hole Options:

- [] - Flush Self Clinching Threaded Insert
- [T] - Tapped
- [H] - Helical Insert, Free Running
- [L] - Helical Insert, Self Locking

Mounting Options: See Chart

Number of Loops: 10 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

Mounting Options

Thru

C'sink

C'sink

C'sink

Thru

Thread

Thread

Thread

Thread

C'sink

Thru

Thru

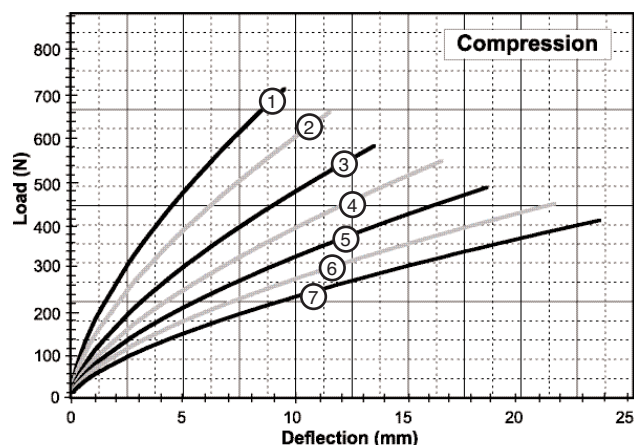
Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

- Maximum recommended torque for standard threaded insert is 3,7 Nm
- Operating Temperature Range: -100°C to 260°C
- U.S. Patent 5,549,285

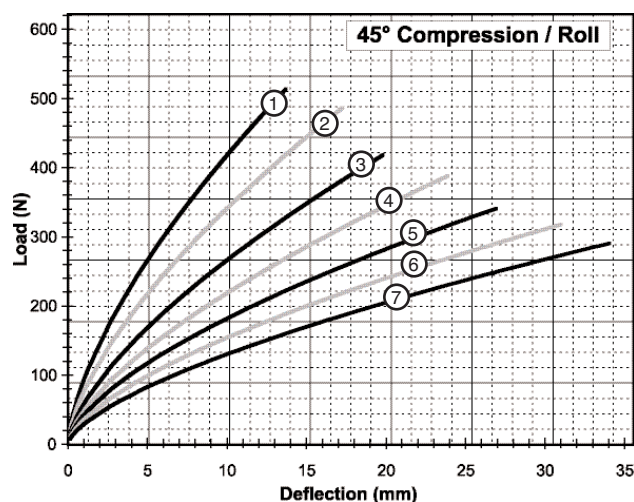
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Static Load vs. Deflection



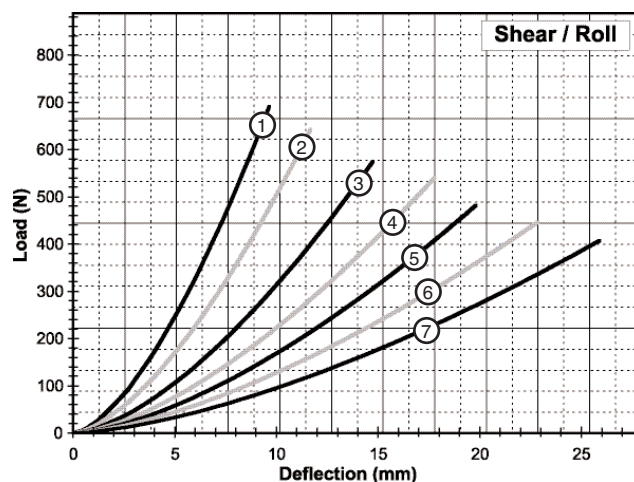
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR4-100-10	213	9,7	154	91
2	WR4-200-10	194	11,7	124	68
3	WR4-400-10	166	13,7	95	51
4	WR4-500-10	156	16,8	78	39
5	WR4-600-10	142	18,8	67	32
6	WR4-700-10	133	21,8	57	25
7	WR4-800-10	117	23,9	46	21



45° Compression/Roll

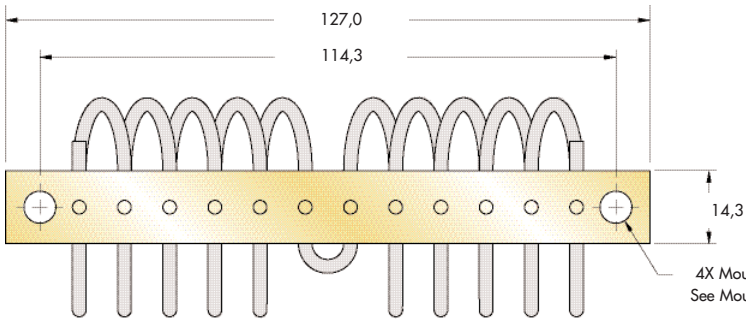
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR4-100-10	149	13,7	86	46
2	WR4-200-10	138	17,3	70	35
3	WR4-400-10	118	19,8	53	25
4	WR4-500-10	111	23,9	44	20
5	WR4-600-10	102	26,9	39	16
6	WR4-700-10	94	31,0	32	12
7	WR4-800-10	84	34,0	26	11



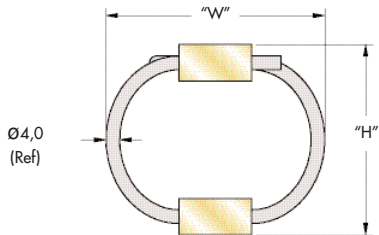
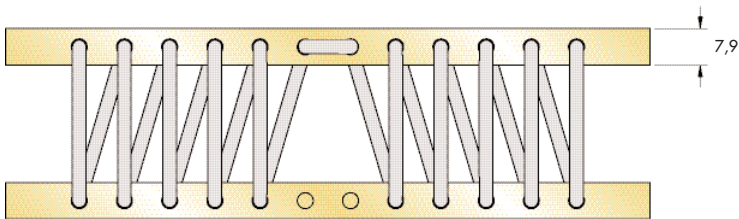
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR4-100-10	111	9,7	56	56
2	WR4-200-10	98	11,7	43	43
3	WR4-400-10	93	14,7	31	31
4	WR4-500-10	85	17,8	25	25
5	WR4-600-10	80	19,8	19	19
6	WR4-700-10	71	22,9	16	16
7	WR4-800-10	62	25,9	12	12

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm		Width Ref "W" mm	Unit Weight. Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR5-200	30	± 1,52	41	0,15	B, D, E	Ø6,9 ± 0,13	M6 X 1,0	90°
WR5-400	33		43	0,15	A, B, C, D, E, S			
WR5-600	38		48	0,16				
WR5-800	46	± 3,30	53	0,17				
WR5-900	53		64	0,18				

Model Number Ordering Code

WR5 - 400 - 10 D T M

Add "M" for Metric

For C'sink and Threaded Options

Threaded Hole Options:

[] - Flush Self Clinching Threaded Insert

[T] - Tapped

[H] - Helical Insert, Free Running

[L] - Helical Insert, Self Locking

Mounting Options:

See Chart

Number of Loops:

10 (Reduced Number of Loops Available)

Isolator Size:

See Sizing Table

Mounting Options

Thru

C'sink

C'sink

C'sink

Thru

Thread

Thread

Thread

Thread

C'sink

Thru

Thru

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

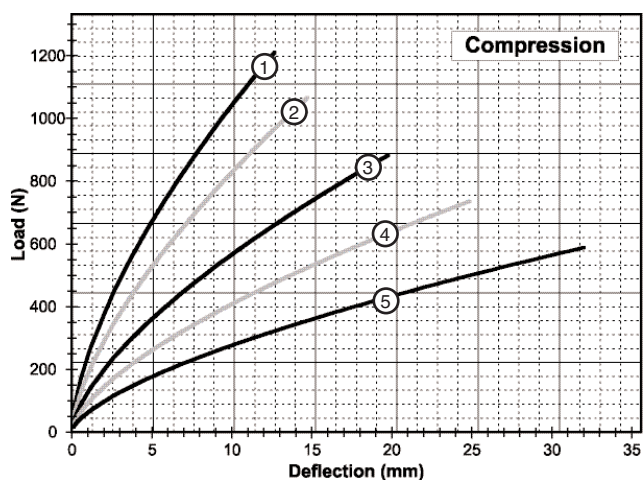
• Maximum recommended torque for standard threaded insert is 4,3 Nm

• Operating Temperature Range: -100°C to 260°C

• U.S. Patent 5,549,285

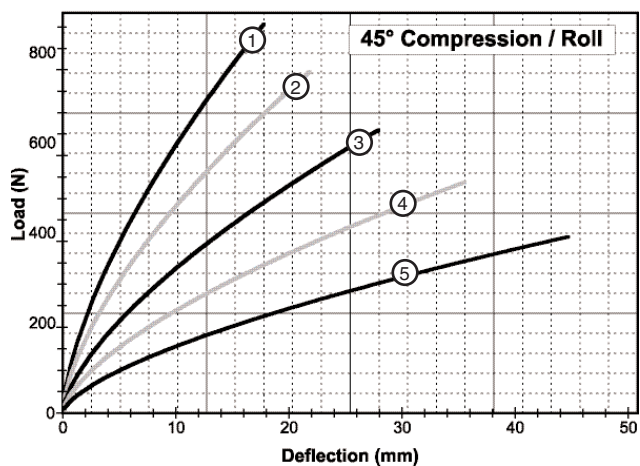
T. +32 2 266 13 13 - www.LDA.be - LDA@LDA.be

Static Load vs. Deflection



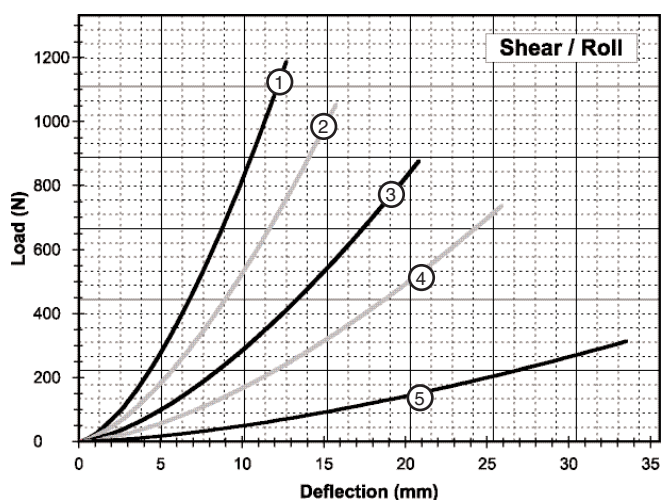
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR5-200-10	364	12,7	222	117
2	WR5-400-10	309	14,7	170	88
3	WR5-600-10	257	19,8	116	54
4	WR5-800-10	216	24,9	84	37
5	WR5-900-10	172	32,0	58	23



45° Compression/Roll

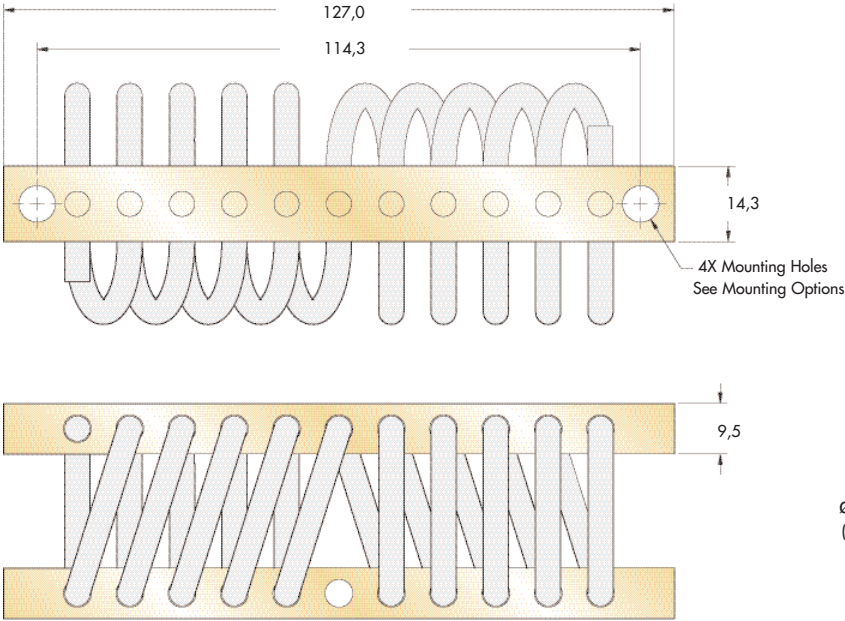
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR5-200-10	254	17,8	123	60
2	WR5-400-10	218	21,8	96	42
3	WR5-600-10	182	27,9	66	28
4	WR5-800-10	151	35,6	48	18
5	WR5-900-10	115	44,7	31	11



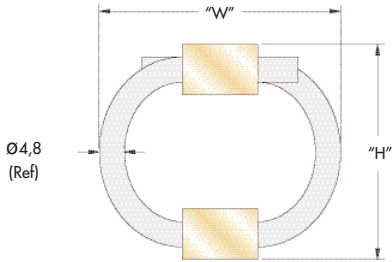
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR5-200-10	178	12,7	73	73
2	WR5-400-10	156	15,7	53	53
3	WR5-600-10	133	20,8	33	33
4	WR5-800-10	111	25,9	23	23
5	WR5-900-10	40	33,5	7,9	7,9

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are $\pm 0,25\text{mm}$



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR6-200	30	± 1,52	36	0,19	D	Ø6,9 ± 0,13	M6 X 1,0	90°
WR6-300	33		38	0,20	B, D, E			
WR6-400	36		41	0,21				
WR6-500	38		43	0,21	A, B, C, D, E, S			
WR6-600	41		46	0,22				
WR6-700	43		48	0,25				
WR6-800	51		58	0,26				
WR6-850	54	± 3,30	75	0,27				
WR6-900	62		88	0,28				
WR6-950	81		107	0,29				

Model Number Ordering Code

WR6 - 400 - 10 D T M

- WR6: Wire Rope Isolator
- 400: Isolator Size
- 10: Number of Loops
- D: Mounting Options
- T: Threaded Hole Options
- M: Add "M" for Metric For C'sink and Threaded Options

Threaded Hole Options:

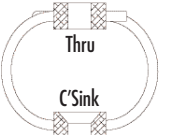
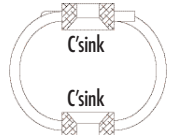
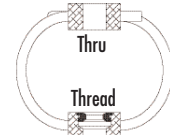
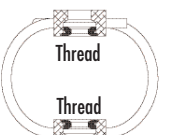
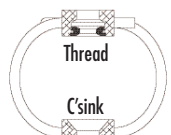
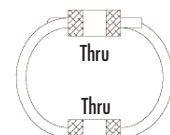
- [] - Flush Self Clinching Threaded Insert
- [T] - Tapped
- [H] - Helical Insert, Free Running
- [L] - Helical Insert, Self Locking

Mounting Options: See Chart

Number of Loops: 10 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

Mounting Options

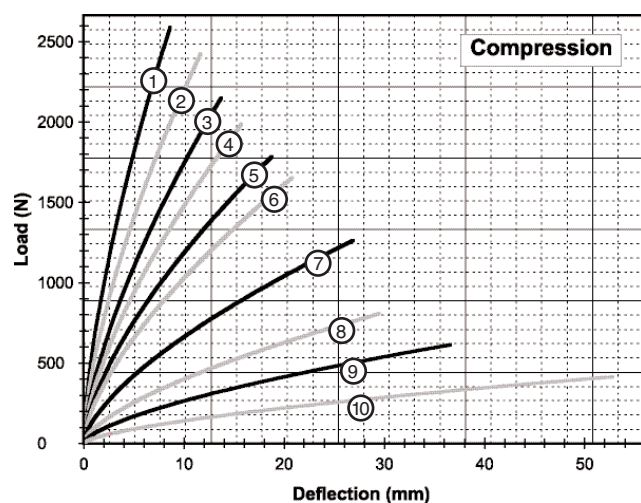
		
		

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

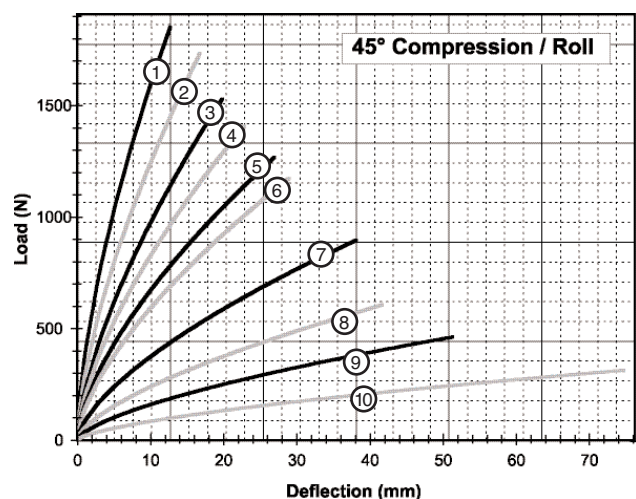
- Maximum recommended torque for standard threaded insert is 4,3 Nm
- Operating Temperature Range: -100°C to 260°C
- U.S. Patent 5,549,285

Static Load vs. Deflection



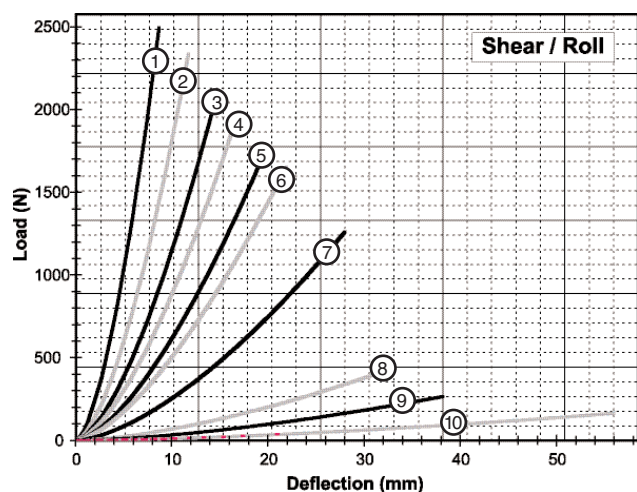
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR6-200-10	734	8,6	578	363
2	WR6-300-10	712	11,7	455	252
3	WR6-400-10	601	13,7	347	189
4	WR6-500-10	578	15,7	301	152
5	WR6-600-10	512	18,8	244	117
6	WR6-700-10	489	20,8	212	96
7	WR6-800-10	365	26,9	136	58
8	WR6-850-10	236	29,5	82	33
9	WR6-900-10	178	36,6	54	21
10	WR6-950-10	120	52,8	29	10



45° Compression/Roll

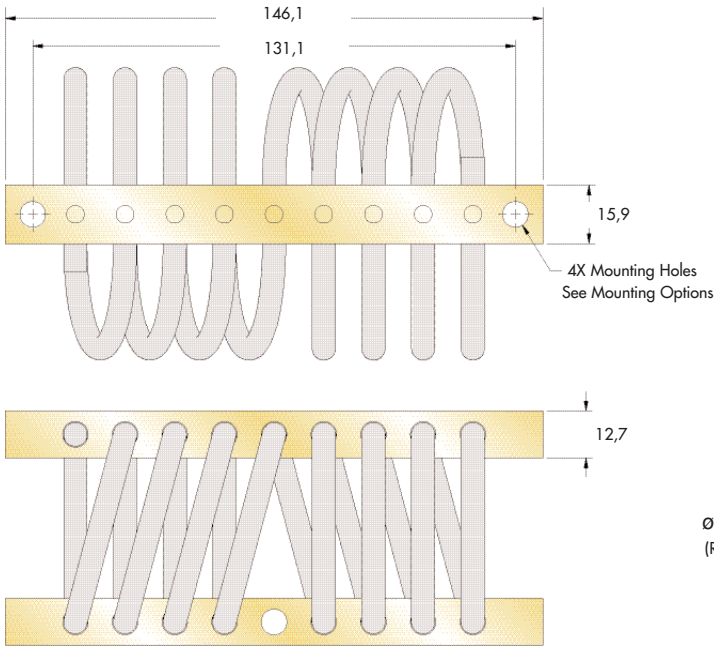
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR6-200-10	534	12,7	341	179
2	WR6-300-10	512	16,8	258	126
3	WR6-400-10	432	19,8	197	93
4	WR6-500-10	409	22,9	172	75
5	WR6-600-10	373	26,9	141	58
6	WR6-700-10	350	29,0	123	49
7	WR6-800-10	260	38,1	77	28
8	WR6-850-10	177	41,7	49	18
9	WR6-900-10	136	51,3	33	11
10	WR6-950-10	91	74,7	18	5,3



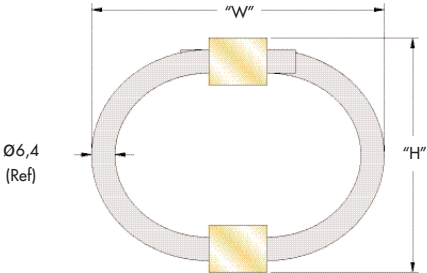
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR6-200-10	356	8,6	224	224
2	WR6-300-10	356	11,7	156	156
3	WR6-400-10	334	14,7	112	112
4	WR6-500-10	311	16,8	93	93
5	WR6-600-10	289	19,8	70	70
6	WR6-700-10	267	21,8	60	60
7	WR6-800-10	200	27,9	35	35
8	WR6-850-10	58	31,0	11	11
9	WR6-900-10	40	38,1	5,3	5,3
10	WR6-950-10	22	55,9	2,3	2,3

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are $\pm 0,25$ mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR8-200	48	56	0,38	A, B, C, D, E, S	$\varnothing 6,9 \pm 0,13$	M6 X 1,0	90°
WR8-400	54	64	0,41				
WR8-500	59	71	0,43				
WR8-600	64	80	0,47				
WR8-700	64	89	0,52				
WR8-800	67	95	0,54				
WR8-850	67	100	0,57				
WR8-900	83	108	0,59				

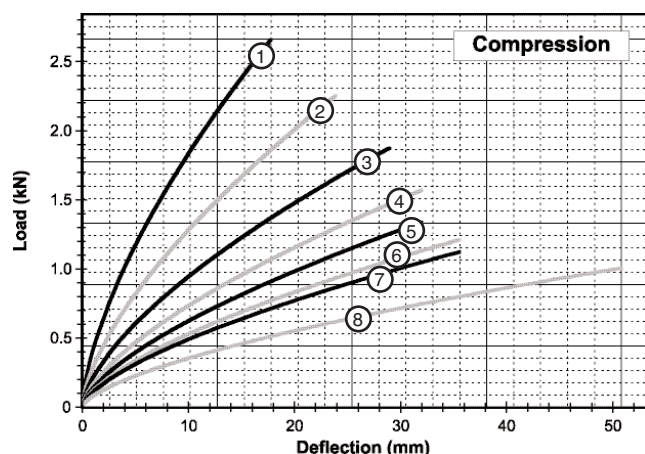
Model Number Ordering Code	
WR8 - 400 - 08 D T M	
WR8	Isolator Size: See Sizing Table
400	Number of Loops: 08 (Reduced Number of Loops Available)
08	Mounting Options: See Chart
D	Threaded Hole Options:
T	[] - Flush Self Clinching Threaded Insert
M	[T] - Tapped
	[H] - Helical Insert, Free Running
	[L] - Helical Insert, Self Locking
	Add "M" for Metric For C'sink and Threaded Options

Mounting Options		

Wire Rope Special Options
Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

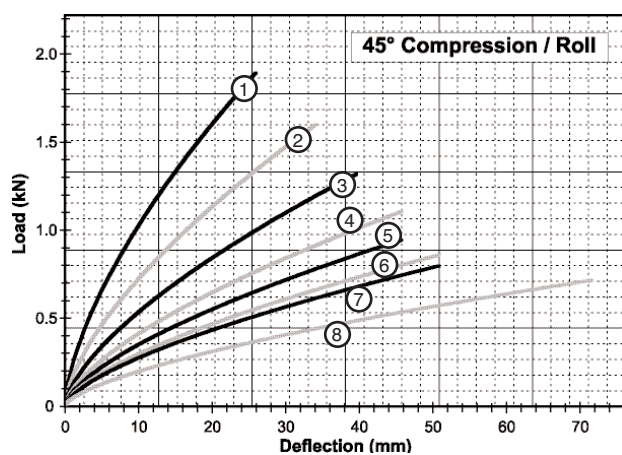
• Maximum recommended torque for standard threaded insert is 4,3 Nm • Operating Temperature Range: -100°C to 260°C • U.S. Patent 5,549,285
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Static Load vs. Deflection



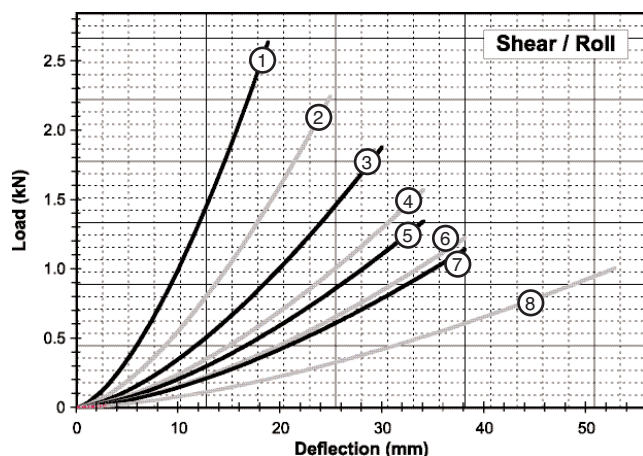
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR8-200-08	778	17,8	382	182
2	WR8-400-08	667	23,9	266	116
3	WR8-500-08	556	29,0	196	79
4	WR8-600-08	445	32,0	151	60
5	WR8-700-08	386	32,0	127	51
6	WR8-800-08	351	35,6	109	42
7	WR8-850-08	325	35,6	100	39
8	WR8-900-08	297	50,8	74	25



45° Compression/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR8-200-08	556	25,9	215	89
2	WR8-400-08	467	34,0	151	58
3	WR8-500-08	390	39,6	109	40
4	WR8-600-08	321	45,7	86	30
5	WR8-700-08	273	45,7	72	25
6	WR8-800-08	248	50,8	61	21
7	WR8-850-08	229	50,8	56	19
8	WR8-900-08	209	71,6	41	12



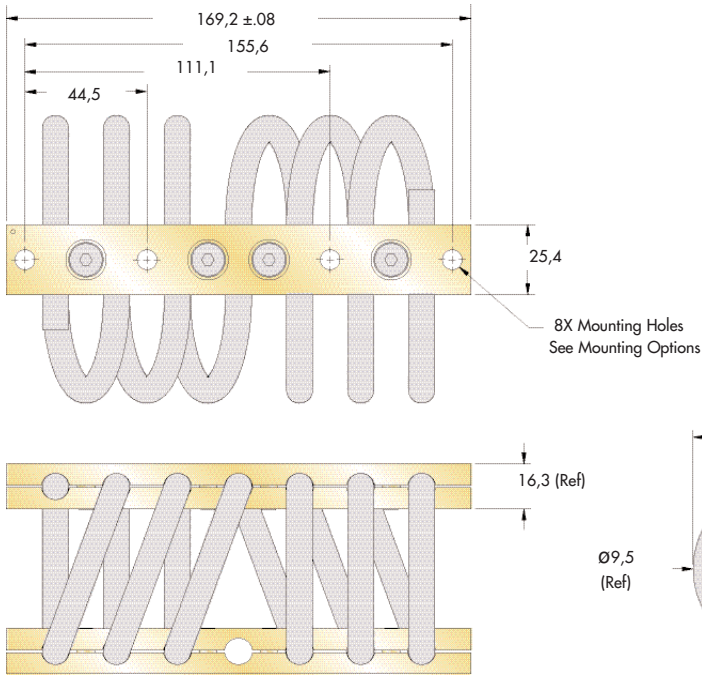
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR8-200-08	423	18,8	110	110
2	WR8-400-08	356	24,9	72	72
3	WR8-500-08	311	30,0	49	49
4	WR8-600-08	245	34,0	37	37
5	WR8-700-08	222	34,0	32	32
6	WR8-800-08	200	38,1	25	25
7	WR8-850-08	178	38,1	23	23
8	WR8-900-08	156	52,8	16	16

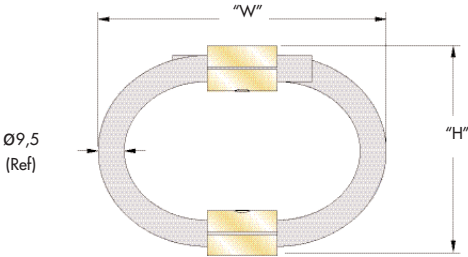
Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Wire Rope Isolators
WR12 Series 6-Loop

Technical Data



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR12-206	71	84	0,83	A, B, C, D, E, S	$\varnothing 7,1 \begin{smallmatrix} + 0,13 \\ - 0,38 \end{smallmatrix}$	M6 X 1,0	90°
WR12-306	74	89	0,85				
WR12-406	76	105	0,90				
WR12-506	83	108	0,95				
WR12-606	89	108	0,98				
WR12-706	105	121	1,07				
WR12-806	108	140	1,12				

Model Number Ordering Code

WR12 - 406 - 06

D

H

M

Add "M" for Metric

For C'sink and Threaded Options

Threaded Hole Options:

[] - Tapped

[H] - Helical Insert, Free Running

[L] - Helical Insert, Self Locking

Mounting Options:

See Chart

Number of Loops:

06 (Reduced Number of Loops Available)

Isolator Size:

See Sizing Table

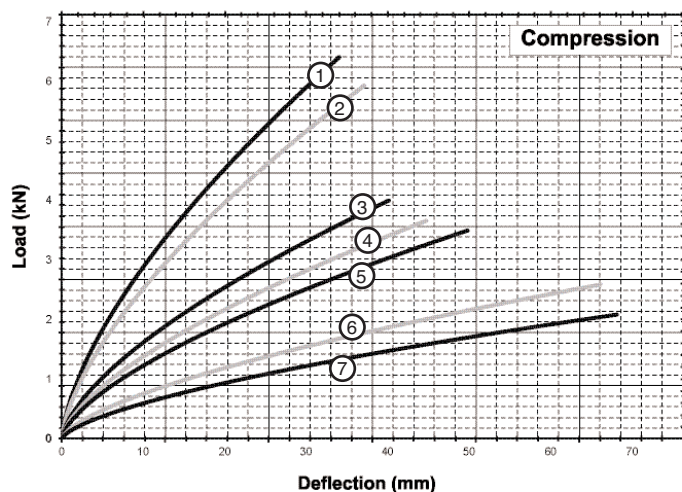
Mounting Options		

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

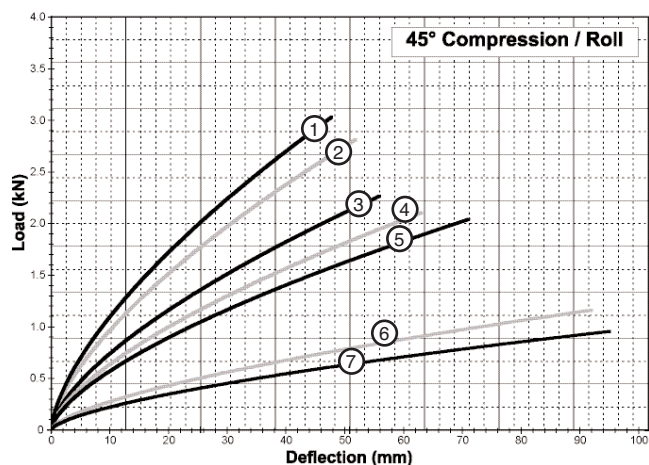
- Maximum recommended torque for threaded bar 10 Nm
- Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



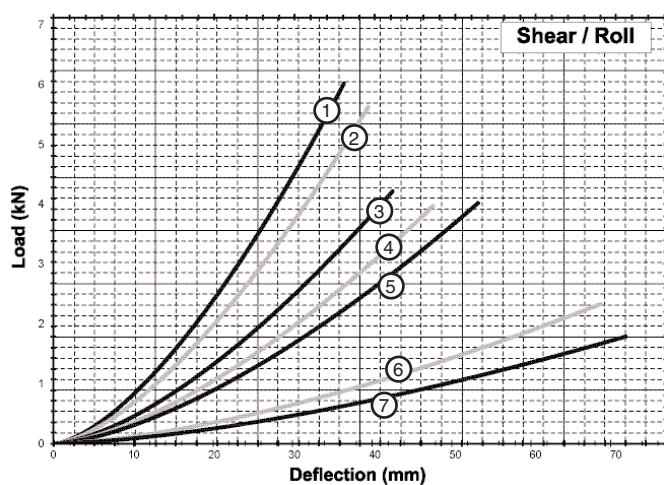
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-206-06	1 090	34,0	275	135
2	WR12-306-06	1 023	37,1	240	114
3	WR12-406-06	801	40,1	180	84
4	WR12-506-06	734	44,7	154	68
5	WR12-606-06	712	49,8	137	60
6	WR12-706-06	396	66,0	65	25
7	WR12-806-06	320	68,1	51	19



45° Compression/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-206-06	890	47,8	177	77
2	WR12-306-06	823	51,8	156	67
3	WR12-406-06	667	55,9	120	49
4	WR12-506-06	623	63,0	103	40
5	WR12-606-06	601	71,1	92	35
6	WR12-706-06	341	91,9	44	16
7	WR12-806-06	280	95,0	36	12



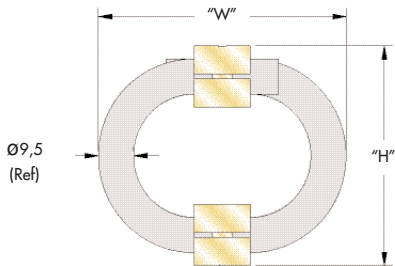
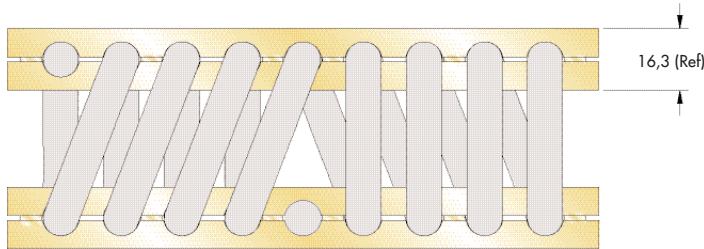
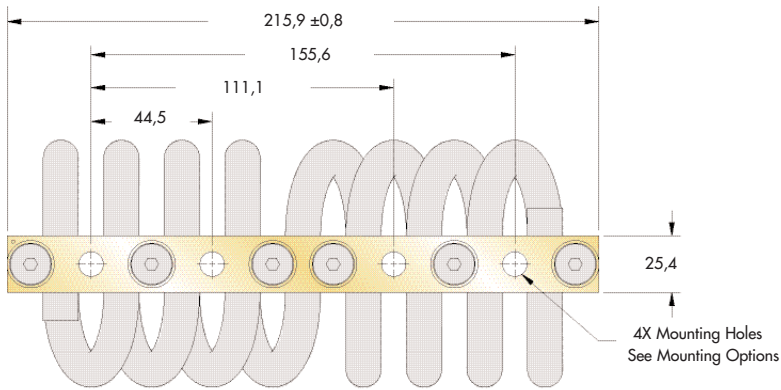
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-206-06	689	36,1	98	132
2	WR12-306-06	645	39,1	84	113
3	WR12-406-06	489	42,2	58	78
4	WR12-506-06	467	47,2	49	66
5	WR12-606-06	445	52,8	44	59
6	WR12-706-06	200	68,1	20	27
7	WR12-806-06	156	71,1	15	20

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Wire Rope Isolators
WR12 Series

Technical Data



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR12-200	71	84	1,10	A, B, C, D, E, S	$\varnothing 9,0 \begin{smallmatrix} +0,13 \\ -0,38 \end{smallmatrix}$	*M8 X 1,25	90°
WR12-300	74	89	1,13				
WR12-400	76	105	1,20				
WR12-500	83	108	1,26				
WR12-600	89	108	1,30				
WR12-700	105	121	1,43				
WR12-800	108	140	1,50				

* Tapped M8 x 1.25, Inserts M6 x 1.0

WR12 - 400 - 08

D

H

M

Add "M" for Metric

Threaded Hole Options: [] - Tapped
[H] - Helical Insert, Free Running
[L] - Helical Insert, Self Locking

Mounting Options: See Chart

Number of Loops: 08 (Reduced Number of Loops Available)

Isolator Size: See Sizing Table

All Mounting Options

Thru

C'Sink

Thru

C'Sink

Thru

Thread

Thread

Thread

Thread

Thru

Thru

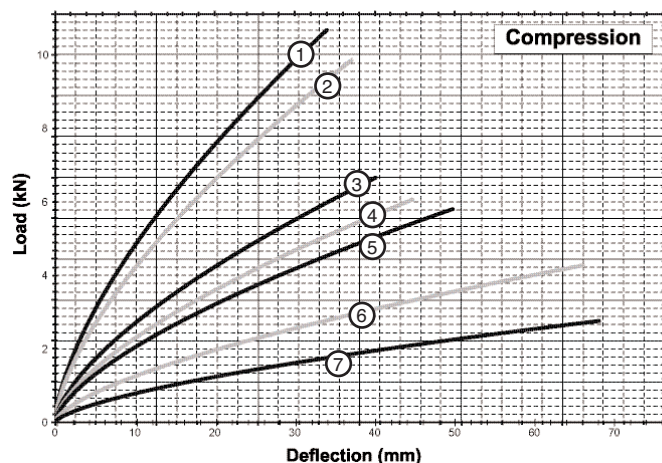
Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

• Maximum recommended torque for threaded bar is 20 Nm

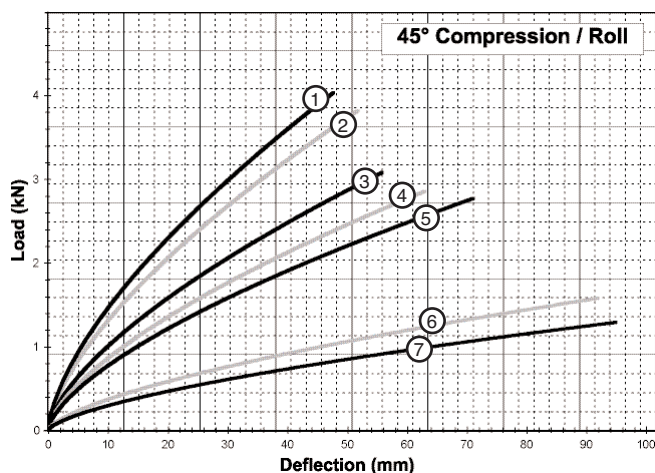
• Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



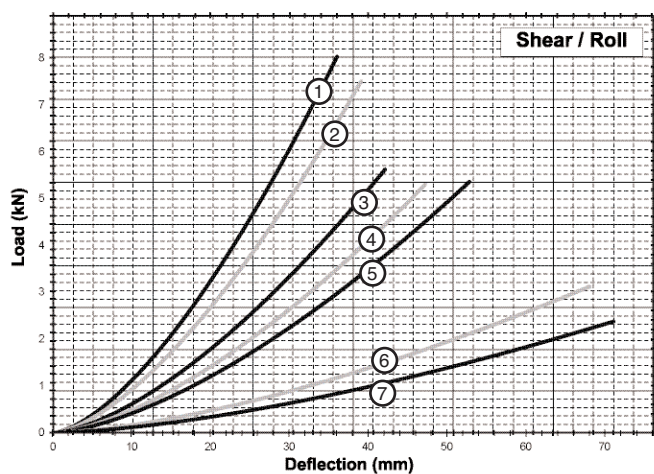
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-200-08	1 468	34,0	366	179
2	WR12-300-08	1 357	37,1	320	152
3	WR12-400-08	1 068	40,1	242	110
4	WR12-500-08	979	44,7	205	91
5	WR12-600-08	934	49,8	182	79
6	WR12-700-08	534	66,0	86	33
7	WR12-800-08	423	68,1	67	26



45° Compression/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-200-08	1 179	47,8	236	103
2	WR12-300-08	1 090	51,8	208	88
3	WR12-400-08	890	55,9	159	65
4	WR12-500-08	823	63,0	137	54
5	WR12-600-08	778	71,1	123	47
6	WR12-700-08	467	91,9	60	21
7	WR12-800-08	373	95,0	47	16



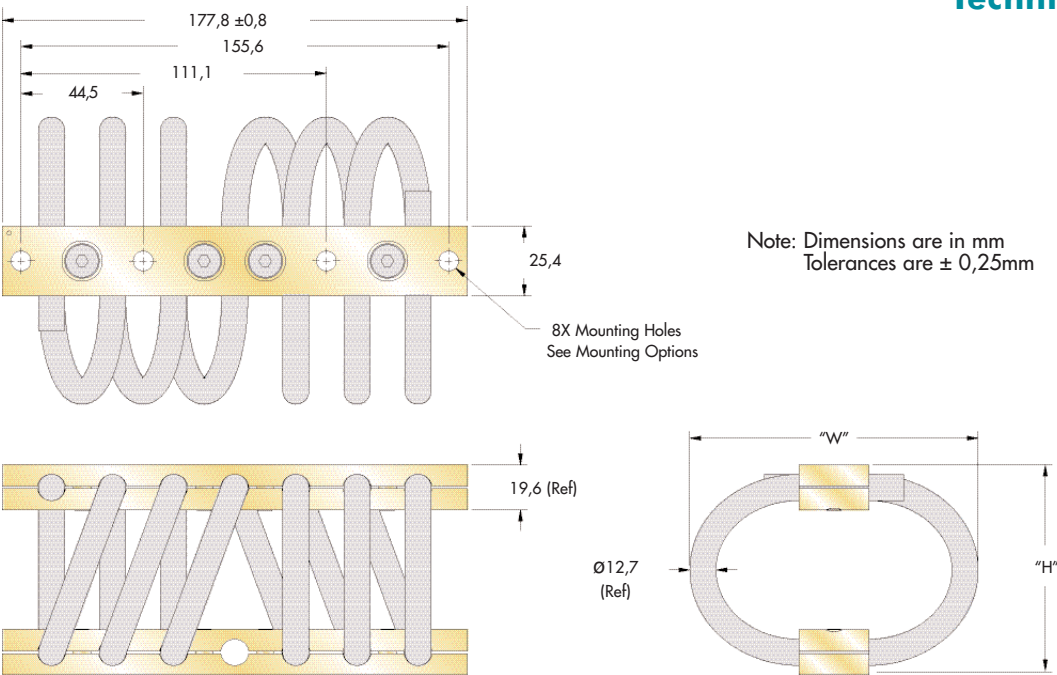
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-200-08	912	36,1	130	130
2	WR12-300-08	867	39,1	112	112
3	WR12-400-08	667	42,2	77	77
4	WR12-500-08	623	47,2	65	65
5	WR12-600-08	601	52,8	60	60
6	WR12-700-08	267	68,1	27	27
7	WR12-800-08	200	71,1	19	19

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Wire Rope Isolators
WR16 Series 6-Loop

Technical Data



Note: Dimensions are in mm
Tolerances are ± 0,25mm

Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR16-206	76	92	1,36	A, B, C, D, E, S	Ø9,0 ^{+0.13} _{-0.38}	* M8 X 1,25	90°
WR16-306	83	102	1,43				
WR16-406	89	105	1,50				
WR16-606	95	121	1,67				
WR16-706	108	133	1,81				
WR16-806	124	144	2,02				
WR16-856	137	156	2,18				
WR16-906	155	180	2,31				

* Tapped M8 x 1.25, Inserts M7 x 1.0

Model Number Ordering Code			
WR16	-406	-06	D H M
			— Add "M" for Metric For C'sink and Threaded Options
			— Threaded Hole Options: [] - Tapped [H] - Helical Insert, Free Running [L] - Helical Insert, Self Locking
			— Mounting Options: See Chart
			— Number of Loops: 06 (Reduced Number of Loops Available)
			— Isolator Size: See Sizing Table

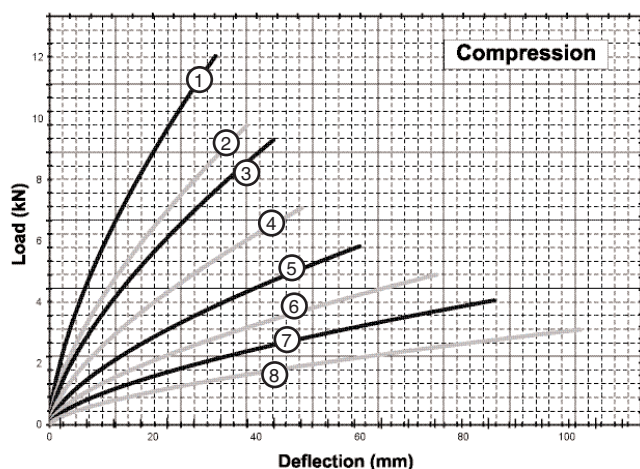
Mounting Options		

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

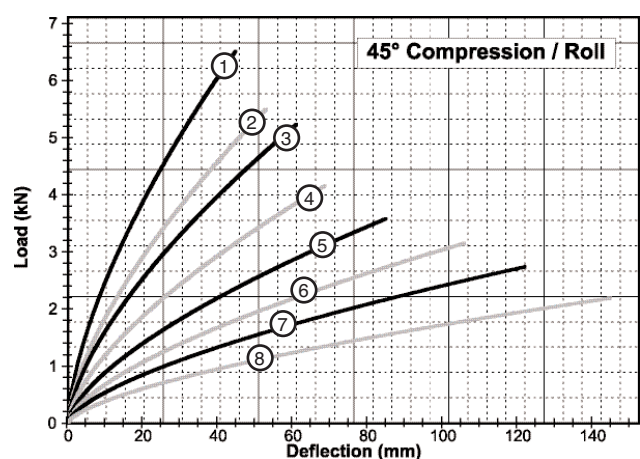
- Maximum recommended torque for threaded bar is 20 Nm
- Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



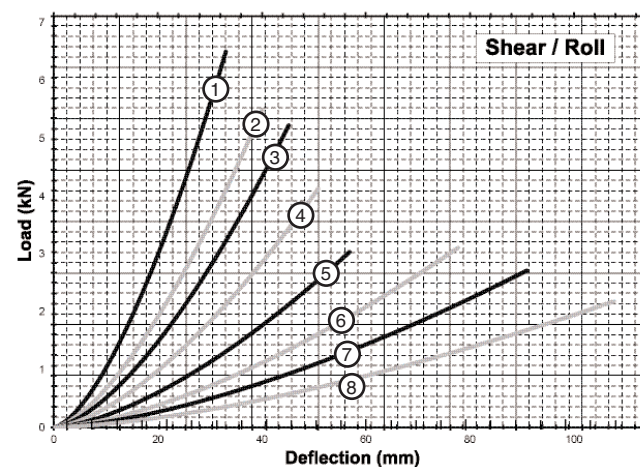
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-206-06	3 556	32,0	931	458
2	WR16-306-06	2 864	38,1	663	311
3	WR16-406-06	2 697	43,2	576	261
4	WR16-606-06	2 082	48,8	412	177
5	WR16-706-06	1 688	59,9	294	119
6	WR16-806-06	1 419	74,7	216	79
7	WR16-856-06	1 191	85,9	162	57
8	WR16-906-06	912	102,6	111	37



45° Compression/Roll

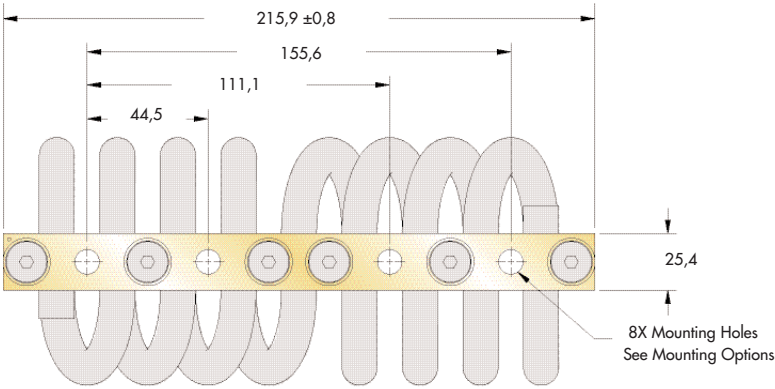
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-206-06	1 935	44,7	405	177
2	WR16-306-06	1 624	52,8	298	126
3	WR16-406-06	1 535	61,0	263	105
4	WR16-606-06	1 223	68,6	194	74
5	WR16-706-06	1 045	84,8	144	51
6	WR16-806-06	912	105,7	110	37
7	WR16-856-06	801	121,9	88	28
8	WR16-906-06	623	144,8	62	19



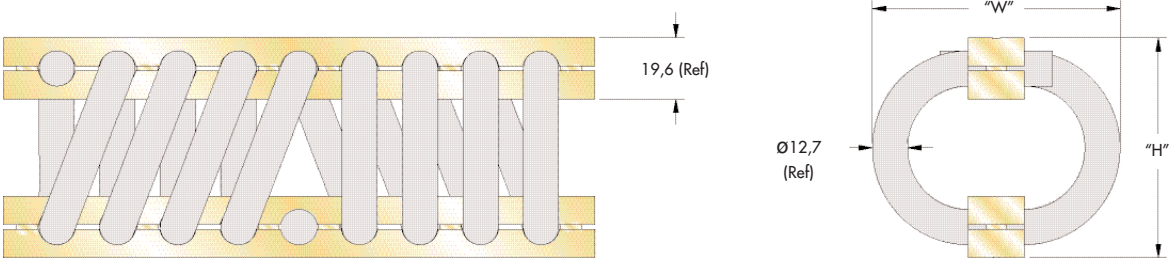
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-206-06	1 043	33,0	154	154
2	WR16-306-06	856	40,1	109	109
3	WR16-406-06	794	45,2	91	91
4	WR16-606-06	638	50,8	64	64
5	WR16-706-06	420	56,9	42	42
6	WR16-806-06	311	77,7	32	32
7	WR16-856-06	234	90,9	23	23
8	WR16-906-06	156	107,7	16	16

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR16-200	76	92	1,81	A, B, C, D, E, S	Ø9.0 ^{+0.13} _{- 0.38}	*M8 X 1,25	90°
WR16-300	83	102	1,91				
WR16-400	89	105	2,00				
WR16-600	95	121	2,22				
WR16-700	108	133	2,40				
WR16-800	124	144	2,70				
WR16-850	137	156	2,90				
WR16-900	155	180	3,09				

* Tapped M8 x 1.25, Inserts M7 x 1.0

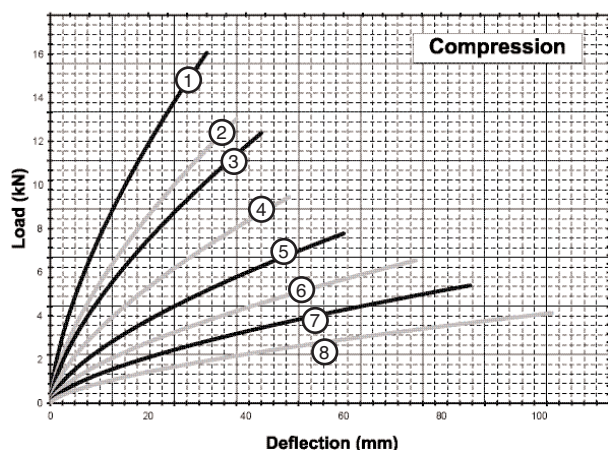
Model Number Ordering Code			
WR16 - 400 - 08	D	H	M
			Add "M" for Metric For C'sink and Threaded Options
			Threaded Hole Options: [] - Tapped [T] - Tapped [H] - Helical Insert, Free Running [L] - Helical Insert, Self Locking
			Mounting Options: See Chart
			Number of Loops: 08 (Reduced Number of Loops Available)
			Isolator Size: See Sizing Table

Mounting Options		

Wire Rope Special Options
Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

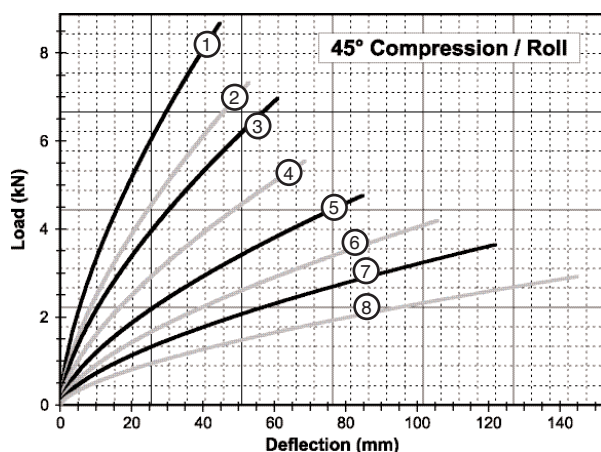
• Maximum recommended torque for threaded bar is 20 Nm
• Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



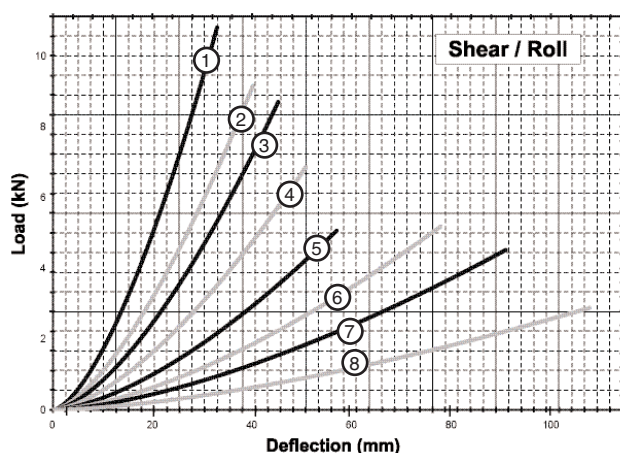
Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-200-08	4 742	32,0	1 241	612
2	WR16-300-08	3 809	38,1	884	416
3	WR16-400-08	3 586	43,2	766	348
4	WR16-600-08	2 776	48,8	548	235
5	WR16-700-08	2 251	59,9	391	157
6	WR16-800-08	1 908	74,7	287	106
7	WR16-850-08	1 588	85,9	217	77
8	WR16-900-08	1 201	102,6	148	49



45° Compression/Roll

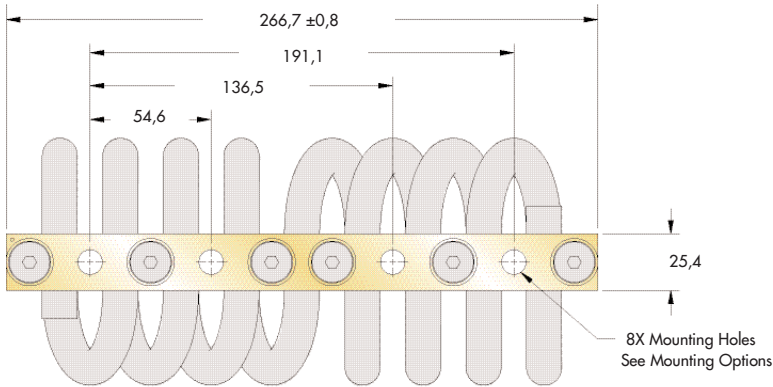
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-200-08	2 580	44,7	539	236
2	WR16-300-08	2 157	52,8	398	168
3	WR16-400-08	2 046	61,0	349	138
4	WR16-600-08	1 624	68,6	259	98
5	WR16-700-08	1 401	84,8	193	68
6	WR16-800-08	1 223	105,7	147	49
7	WR16-850-08	1 068	121,9	117	37
8	WR16-900-08	823	144,8	83	25



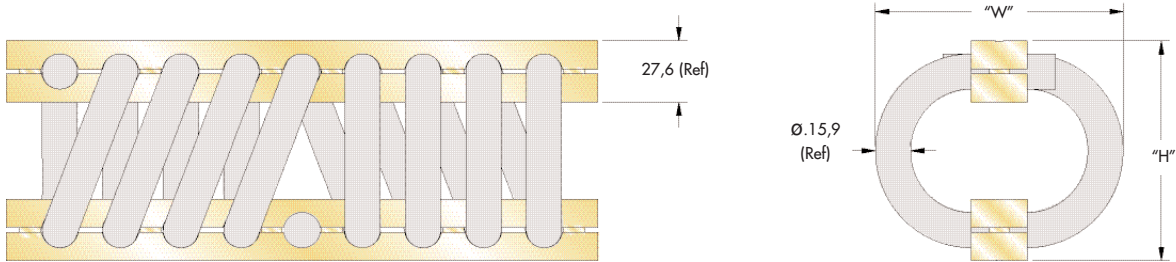
Shear/Roll

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-200-08	2 055	33,0	206	206
2	WR16-300-08	1 199	40,1	145	145
3	WR16-400-08	1 090	45,2	121	121
4	WR16-600-08	841	50,8	85	85
5	WR16-700-08	560	56,9	56	56
6	WR16-800-08	420	77,7	42	42
7	WR16-850-08	311	90,9	32	32
8	WR16-900-08	202	107,7	21	21

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR20-200	89	± 3,30	102	3,00	C, D	Ø11,0 + 0,13 - 0,38	M10 X 1,5	90°
WR20-300	99		112	3,20	A, B, C, D, E, S			
WR20-400	102		121	3,40				
WR20-600	109		135	3,70				
WR20-700	119		152	4,00				
WR20-800	127		165	4,31				
WR20-900	135		178	4,63				

Model Number Ordering Code

WR20 - 400 - 08

D

H

M

Add "M" for Metric

For C'sink and Threaded Options

Threaded Hole Options:

[] - Tapped

[H] - Helical Insert, Free Running

[L] - Helical Insert, Self Locking

Mounting Options:

See Chart

Number of Loops:

08 (Reduced Number of Loops Available)

Isolator Size:

See Sizing Table

Mounting Options

Thru

C'Sink

C'Sink

C'Sink

Thru

Thread

Thread

Thread

Thread

C'Sink

Thru

Thru

Wire Rope Special Options

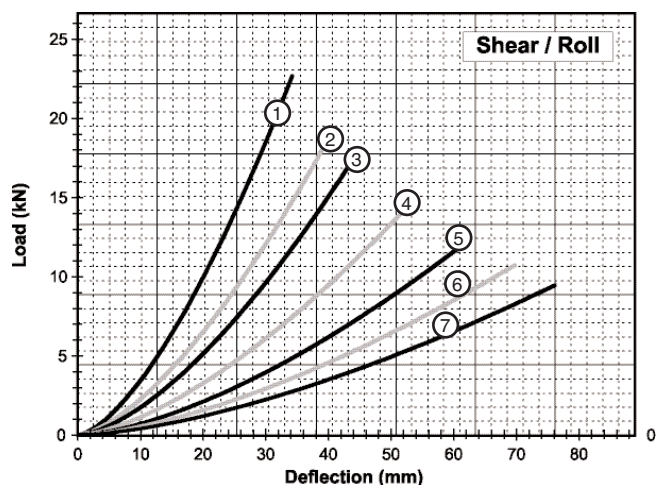
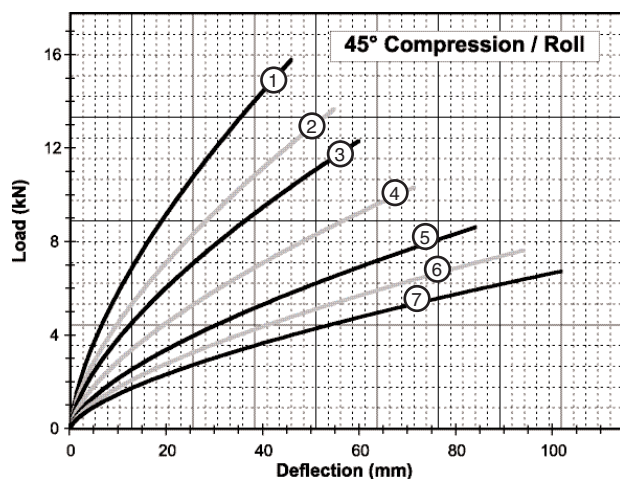
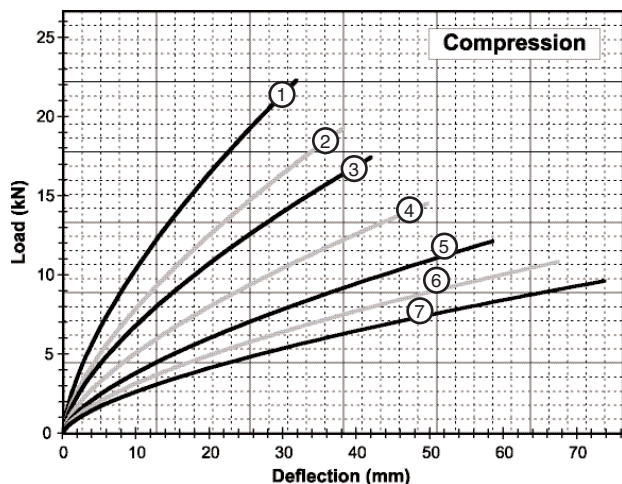
Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

• Maximum recommended torque for threaded bar is 50 Nm

• Operating Temperature Range: -100°C to 260°C

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Static Load vs. Deflection



Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Compression

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR20-200-08	6 450	31,8	1 676	849
2	WR20-300-08	5 471	38,1	1 259	609
3	WR20-400-08	5 071	41,9	1 105	504
4	WR20-600-08	4 204	49,5	821	356
5	WR20-700-08	3 514	58,4	616	252
6	WR20-800-08	3 180	67,3	511	196
7	WR20-900-08	2 802	73,7	427	159

45° Compression/Roll

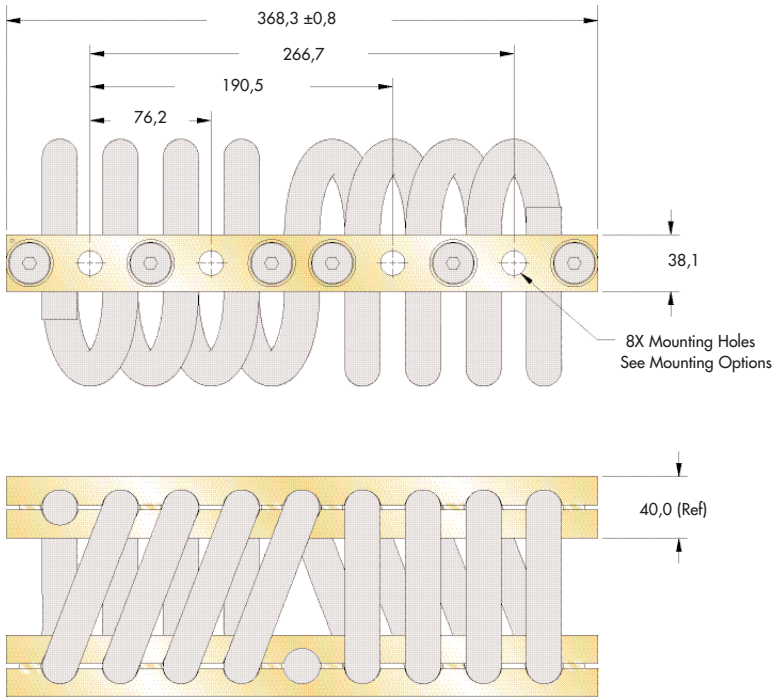
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR20-200-08	4 537	45,7	951	419
2	WR20-300-08	3 981	54,6	741	305
3	WR20-400-08	3 581	59,7	627	250
4	WR20-600-08	2 980	71,1	468	177
5	WR20-700-08	2 491	83,8	350	124
6	WR20-800-08	2 246	94,0	285	98
7	WR20-900-08	1 979	101,6	238	81

Shear/Roll

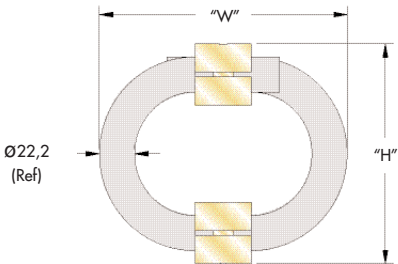
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR20-200-08	3 514	34,3	524	524
2	WR20-300-08	3 025	40,6	375	375
3	WR20-400-08	2 624	43,2	308	308
4	WR20-600-08	2 135	52,1	215	215
5	WR20-700-08	1 512	61,0	152	152
6	WR20-800-08	1 223	69,9	123	123
7	WR20-900-08	979	76,2	98	98

Wire Rope Isolators
WR28 Series

Technical Data



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" in. mm		Width Ref "W" in. mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR28-200	133	± 6,35	140	8,40	C, D	Ø13,5 + ^{0,13} - _{0,38}	M12 X 1,75	90°
WR28-400	152		165	9,53	A, B, C, D, E, S			
WR28-600	159		178	9,90				
WR28-800	191		210	11,50				
WR28-900	216		235	12,70				
WR28-950	216		286	13,90				

Model Number Ordering Code

WR28 - 400 - 08

D H M

Add "M" for Metric

For C'sink and Threaded Options

Threaded Hole Options:

[] - Tapped

[H] - Helical Insert, Free Running

[L] - Helical Insert, Self Locking

Mounting Options:

See Chart

Number of Loops:

08 (Reduced Number of Loops Available)

Isolator Size:

See Sizing Table

Mounting Options

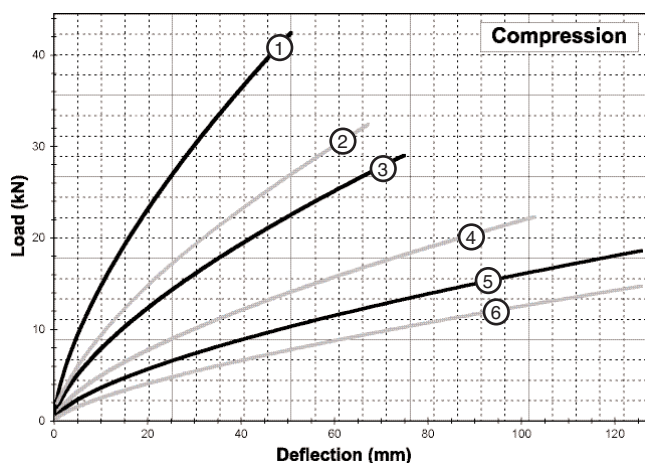
 Thru C'sink	 C'sink C'sink	 Thru Thread
 Thread Thread	 Thread C'sink	 Thru Thru

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

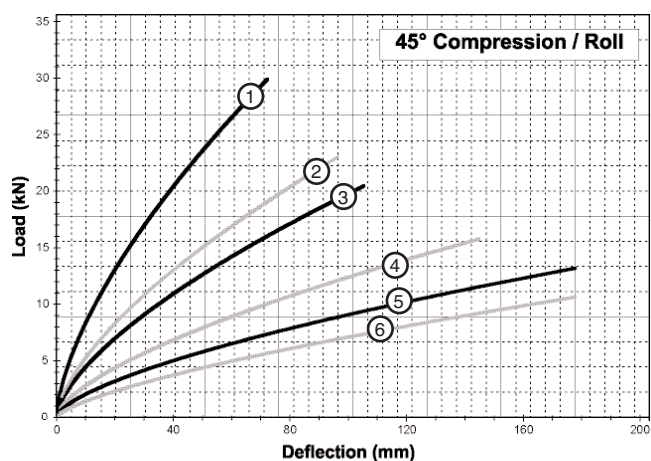
- Maximum recommended torque for threaded bar 100 Nm
- Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



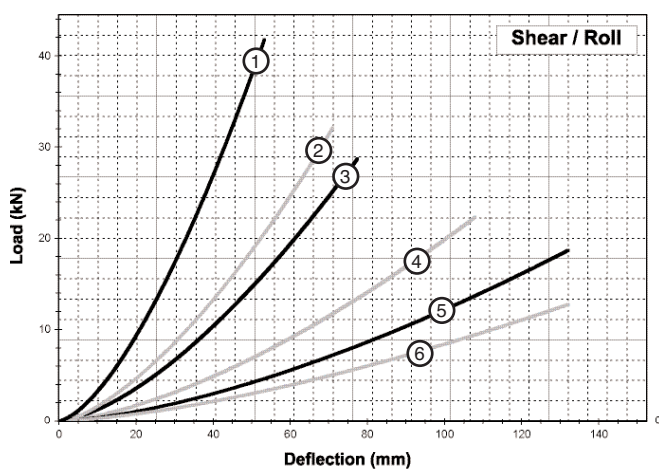
Compression

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR28-200-08	12,28	50,8	2 362	1 010
2	WR28-400-08	9,43	67,3	1 513	585
3	WR28-600-08	8,45	74,9	1 270	469
4	WR28-800-08	6,54	102,9	800	263
5	WR28-900-08	5,43	125,7	585	180
6	WR28-950-08	3,74	125,7	377	138



45° Compression/Roll

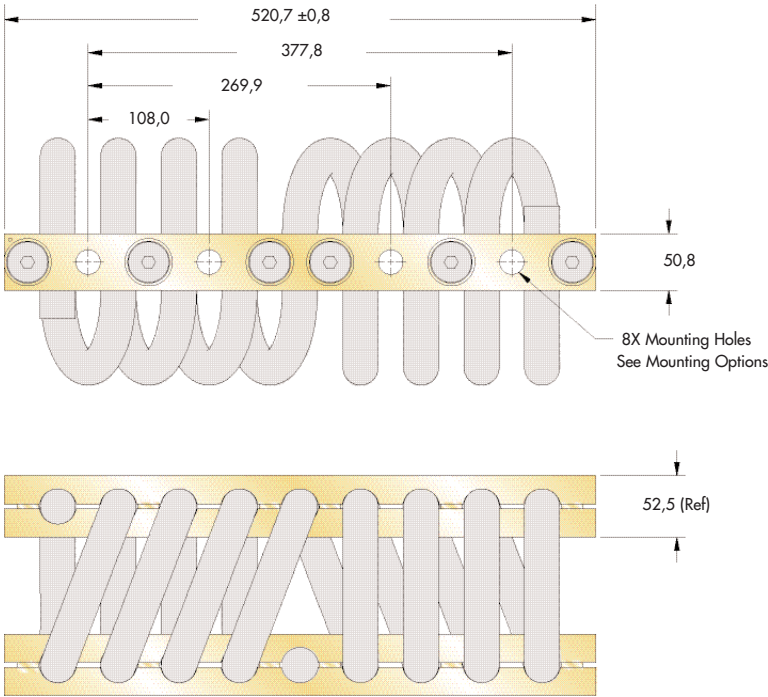
Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR28-200-08	8,72	72,4	1 348	503
2	WR28-400-08	6,67	96,5	860	289
3	WR28-600-08	6,01	105,4	718	235
4	WR28-800-08	4,45	144,8	448	131
5	WR28-900-08	3,25	177,8	327	89
6	WR28-950-08	2,11	177,8	212	70



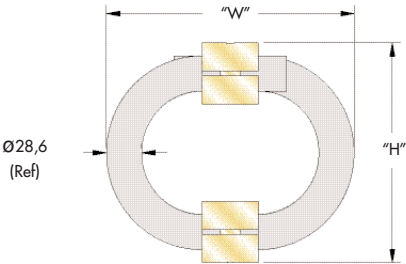
Shear/Roll

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR28-200-08	6,14	53,3	618	618
2	WR28-400-08	3,54	71,1	356	356
3	WR28-600-08	2,89	77,5	291	291
4	WR28-800-08	1,62	108,0	163	163
5	WR28-900-08	1,11	132,1	112	112
6	WR28-950-08	0,76	132,1	77	77

Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR36-200	178	± 6,35	216	20,9	A, B, C, D, E, S	Ø19,8 + 0,13 - 0,38	M18 X 2,5	90°
WR36-400	216		241	24,0				
WR36-600	235		260	25,0				

Model Number Ordering Code				
WR36	-400	-08	D H M	
				Add "M" for Metric For C'sink and Threaded Options
				Threaded Hole Options: [] - Tapped [H] - Helical Insert, Free Running [L] - Helical Insert, Self Locking
				Mounting Options: See Chart
				Number of Loops: 08 (Reduced Number of Loops Available)
				Isolator Size: See Sizing Table

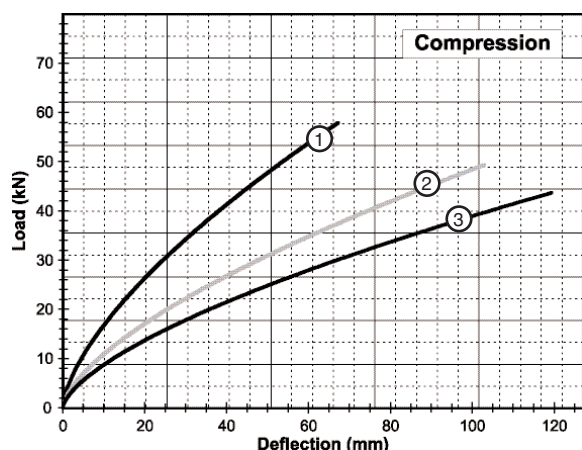
Mounting Options		

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

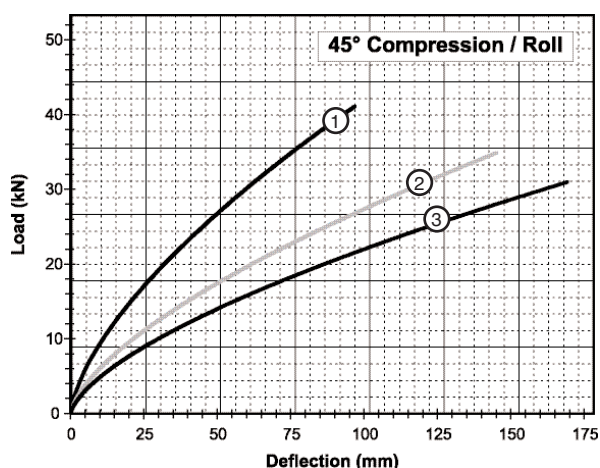
- Maximum recommended torque for threaded bar is 300 Nm
- Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



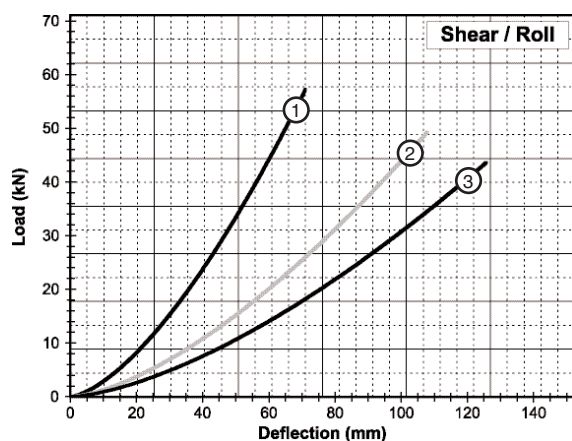
Compression

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR36-200-08	16,86	67,3	2 706	1 044
2	WR36-400-08	14,50	102,9	1 774	583
3	WR36-600-08	12,77	119,4	1 415	445



45° Compression/Roll

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR36-200-08	11,97	96,5	1 541	518
2	WR36-400-08	9,88	144,8	993	292
3	WR36-600-08	7,96	168,9	799	222



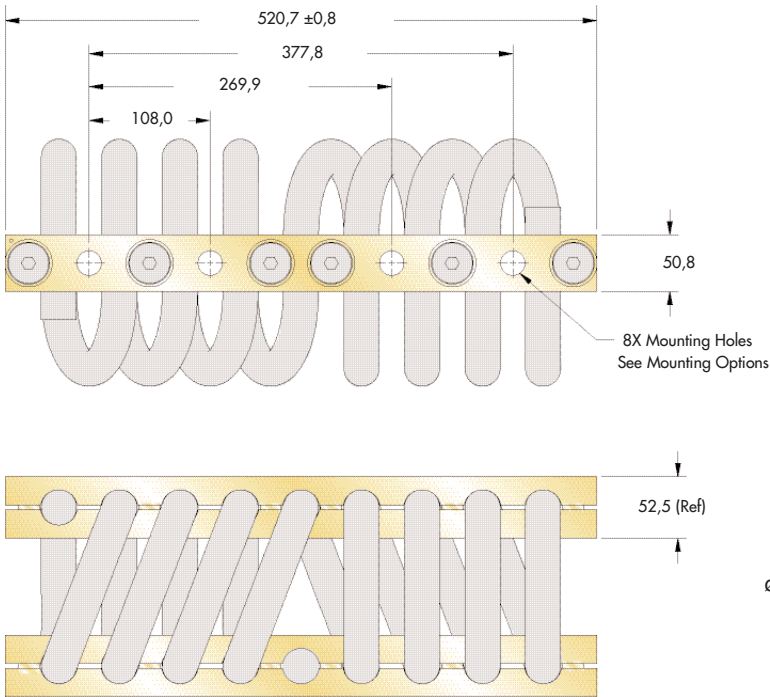
Shear/Roll

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR36-200-08	6,32	71,1	636	636
2	WR36-400-08	3,60	108,0	361	361
3	WR36-600-08	2,74	125,7	275	275

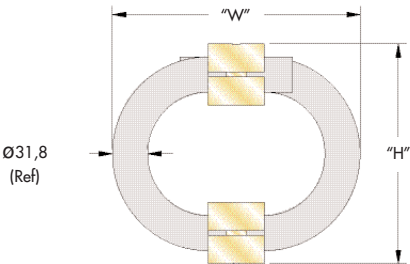
Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Wire Rope Isolators
WR40 Series

Technical Data



Note: Dimensions are in mm
Tolerances are ± 0,25mm



Size	Height "H" mm		Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm	C'sink
WR40-200	178	± 6,35	210	24,0	A, B, C, D, E, S	Ø19,8 +0,13 -0,38	M18 X 2,5	90°
WR40-400	216		248	27,2				

Model Number Ordering Code			
WR40 - 400 - 08	D	H	M
			Add "M" for Metric For C'sink and Threaded Options
			Threaded Hole Options: [] - Tapped [H] - Helical Insert, Free Running [L] - Helical Insert, Self Locking
			Mounting Options: See Chart
			Number of Loops: 08 (Reduced Number of Loops Available)
			Isolator Size: See Sizing Table

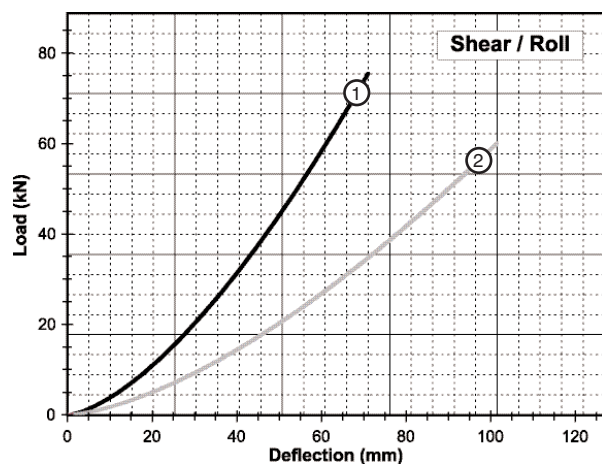
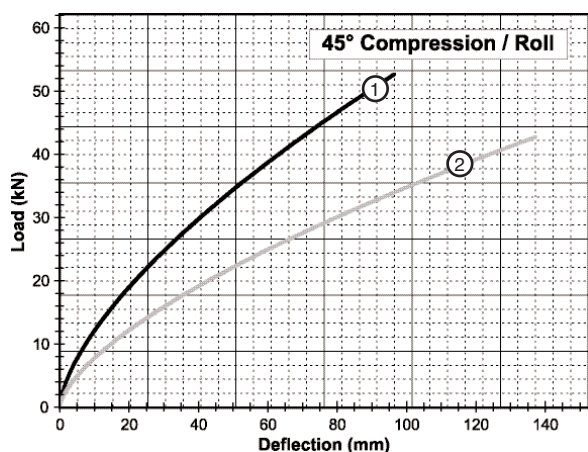
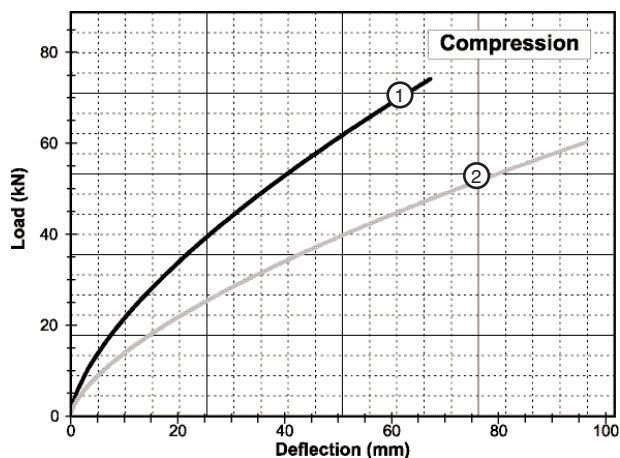
Mounting Options		

Wire Rope Special Options

Optional materials for the wire rope and mount bars are available upon request. Possibilities include galvanized rope, bell mouth mount bars or stainless steel rope and mount bars. Please contact ITT Enidine to discuss in more detail. Minimum purchase quantities may apply. See page 107.

- Maximum recommended torque for threaded bar is 300 Nm
- Operating Temperature Range: -100°C to 260°C

Static Load vs. Deflection



Notes: Performance provided for full loop models with standard (302/304) stainless steel cable.
Consult ITT Enidine for other options. Do not extrapolate curves.

Compression

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR40-200-08	21,62	67,3	3 468	1 338
2	WR40-400-08	17,61	96,5	2 236	758

45° Compression/Roll

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR40-200-08	15,30	96,5	1 968	664
2	WR40-400-08	12,41	137,2	1 256	378

Shear/Roll

Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR40-200-08	8,32	71,1	839	839
2	WR40-400-08	4,64	101,6	468	468



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