

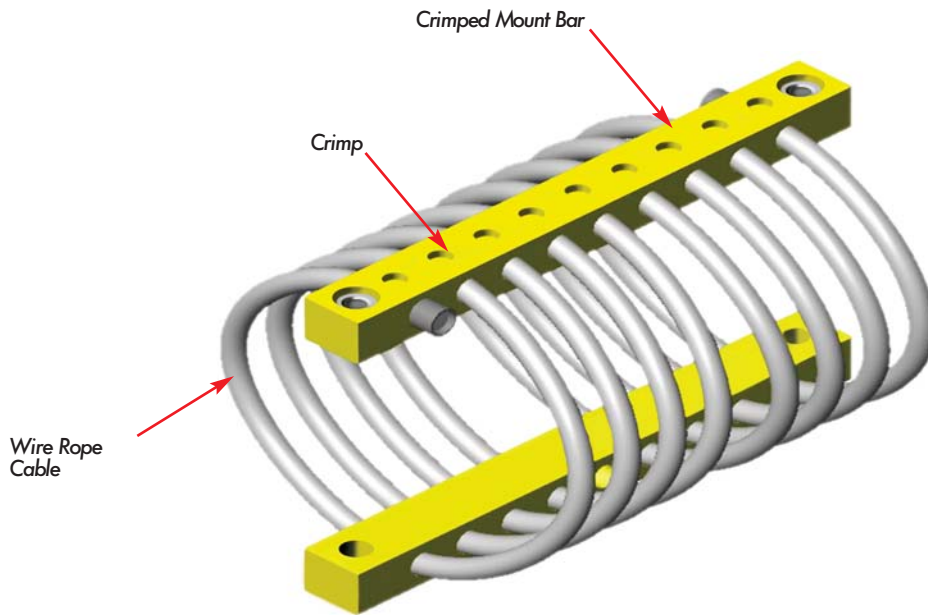


U.S. Patents 5,549,285

### Wire Rope Isolators

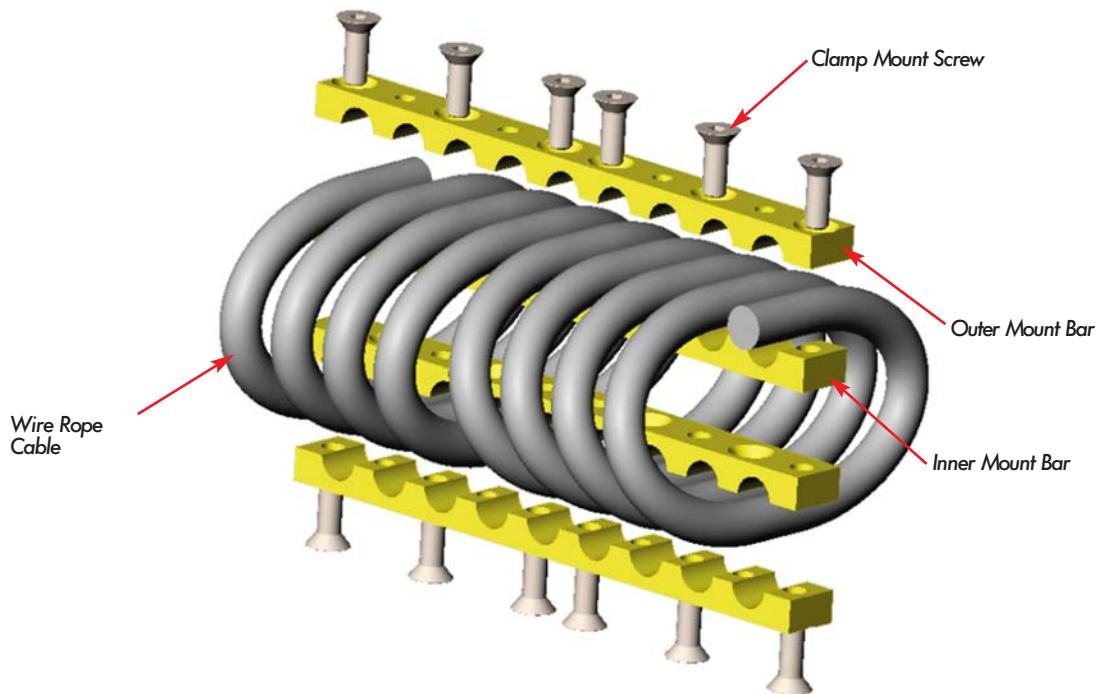
Standard Wire Rope Isolators are comprised of stainless steel stranded cable threaded through aluminum alloy retaining bars that are mounted for effective shock and vibration isolation. With their corrosion resistant, all-metal construction, Enidine Wire Rope Isolators are environmentally stable, high-performance 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 Sizing Information" on pages 117-118 to assist you in selecting a model for your application.



**Crimp Models (WR2 – WR8):**

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):**

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

### Materials and Finishes:

**Standard:** Wire Rope: 302/304 Stainless Steel  
 Mount Bars: 6061-T6 Aluminum, Chemical Conversion Coated per MIL-C-5541, Class 1A  
 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  
 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 Enidine

### Isolator Options:

**Mounting:** 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 Enidine if a preferred mounting configuration is not listed.

**Loops:** 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:** 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.

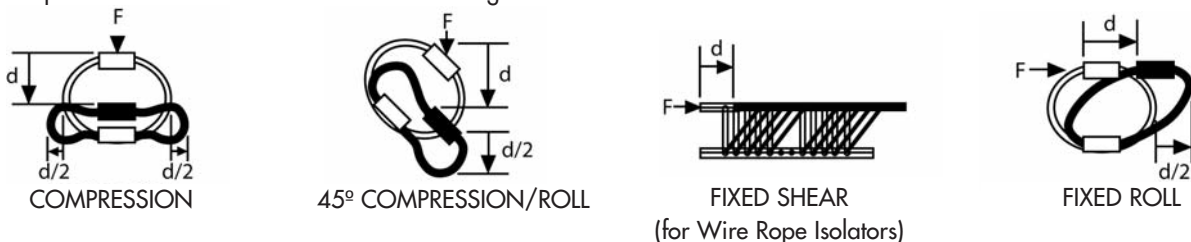
### Performance:

#### 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. 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 118 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:

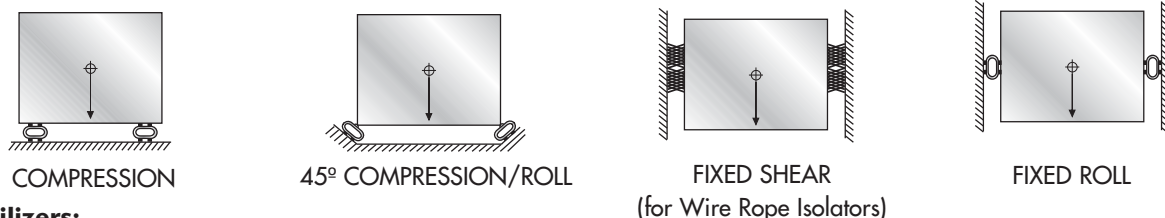
Wire rope isolators are multi-axis isolators. The diagram below includes load axis definitions and deflection considerations.



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

#### Mounting Orientation:

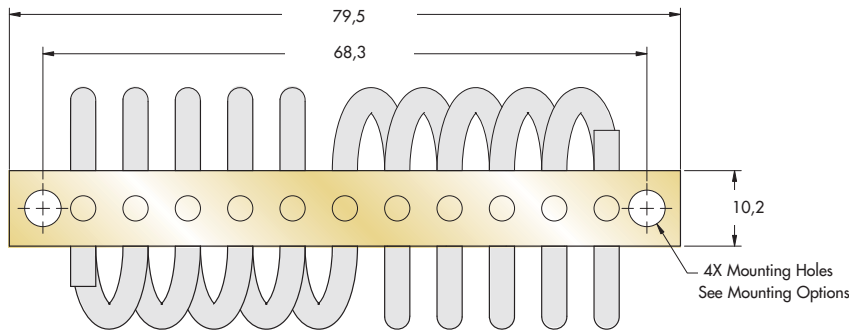
The diagrams below illustrate typical mounting orientations.



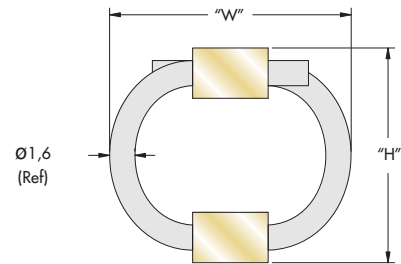
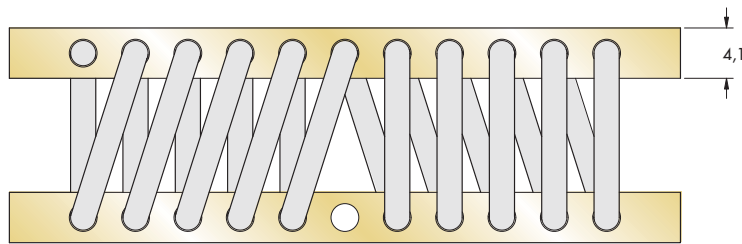
#### Stabilizers:

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
<b>PART I: SYSTEM DATA:</b>		
1. Total Supported Load ( W <sub>T</sub> ):	$W_T = \text{_____ Kg} \times 9,81 = \text{_____ N}$	
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 _____
<b>PART II: VIBRATION SIZING:</b>		
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 <sub>v</sub> )	$K_v = \frac{W (2\pi f_n)^2}{g}$ $g = 9,81 \text{ m/s}^2$	K <sub>v</sub> = _____ 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 <sub>v</sub>		
<b>PART III: SHOCK SIZING:</b>		
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 <sub>min</sub> = _____ m
4. Maximum Isolator Shock Stiffness:	$K_s = \frac{W(V/D_{\min})^2}{g}$	K <sub>s</sub> = _____ 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 <sub>min</sub> 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 <sub>s</sub> "		
6. Check actual deflection using "K <sub>s</sub> " from technical data to ensure that the isolator's max deflection is not exceeded.	$D_{\text{actual}} = \sqrt{\frac{K_s(\text{Isolator})g}{W}}$	D <sub>actual</sub> = _____ 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 ± .25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR2-100	18	25	0,02	B, D, E	Ø4,7 ± 0,13	M4 X 0,7 (#8-32 UNC)	90° (82°)
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 P N R**

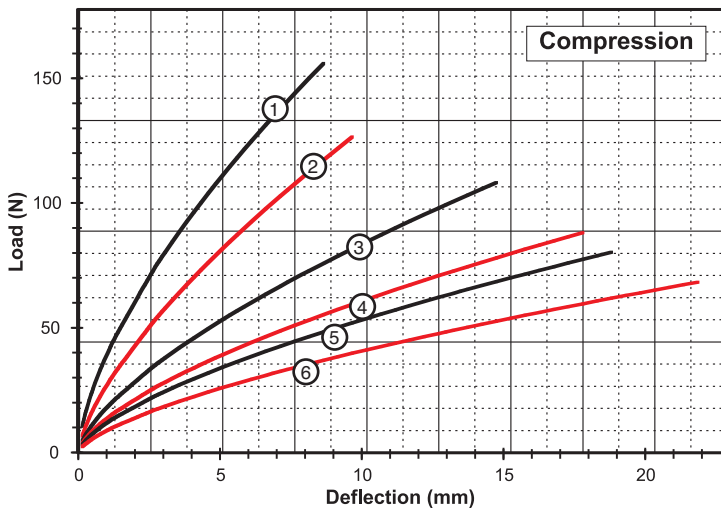
- Feature Options:**
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:**
  - [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:**
  - [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- 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

- 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

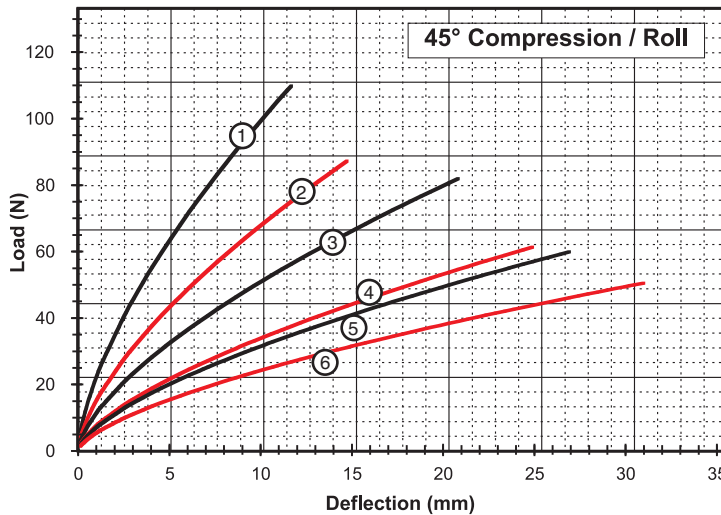
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ◇ Nylon coated wire rope models have different stiffness values compared to the standard models.  
 Please contact Enidine for proper sizing.

### Static Load vs. Deflection



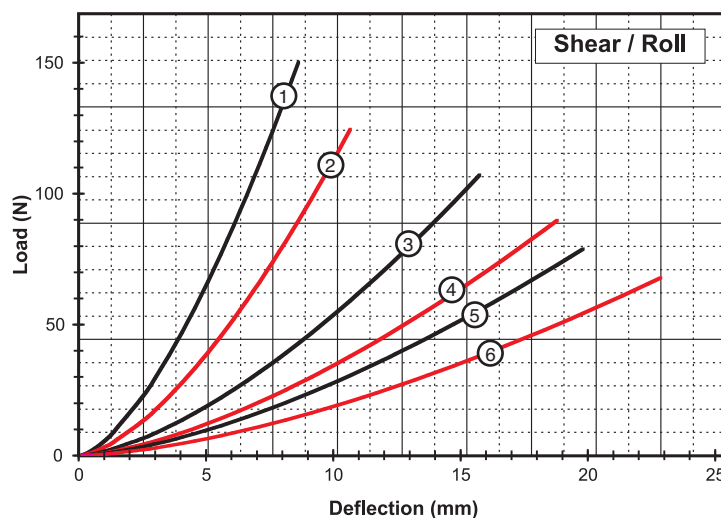
### Compression

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

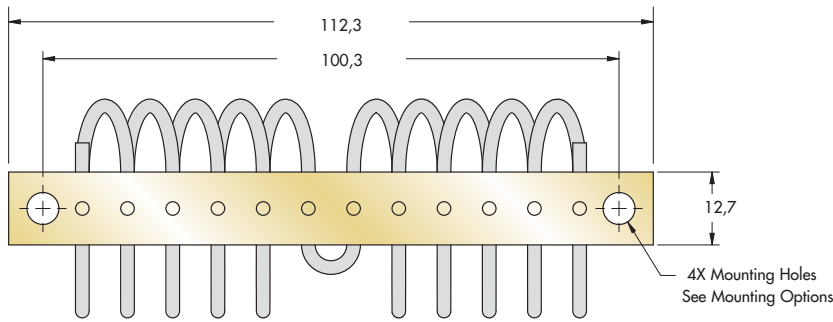
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR2-100-10	33	11,7	20	11,4
2	WR2-200-10	24	14,7	14	7,0
3	WR2-400-10	24	20,8	11	4,7
4	WR2-600-10	18	24,9	7,0	3,0
5	WR2-700-10	18	26,9	6,1	2,6
6	WR2-800-10	16	31,0	5,3	1,9



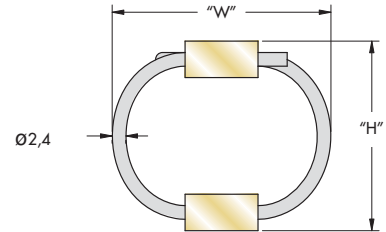
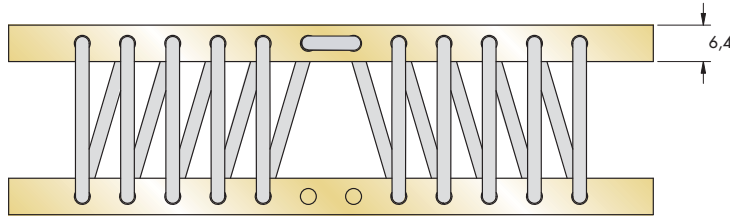
### Shear/Roll

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

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



Note: Dimensions are in mm  
Tolerances are ± .25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR3-100	23	28	0,06	B, D, E	Ø5,3 ± 0,13	M5 X 0,8 (#10-32 UNF)	90° (82°)
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 P N R**

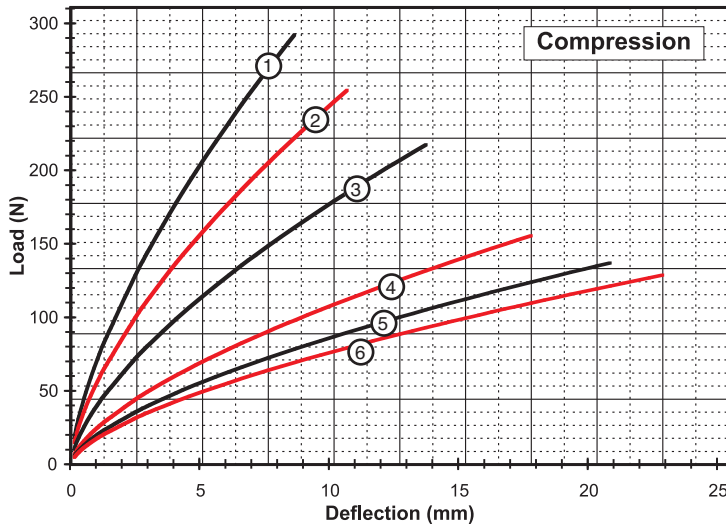
- Feature Options:
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:
  - \* [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - ◇ [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:
  - \* [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- Add "M" for Metric For C'sink and Threaded Options
- Threaded Hole Options:
  - \* [ ] - Flush Self Clinching Threaded Insert
  - [ H ] - Helical Insert, Free Running
  - [ L ] - Helical Insert, Self Locking
  - [ T ] - Tapped
- Mounting Options: See Chart
- Number of Loops: 10 (Reduced Number of Loops Available)
- Isolator Size: See Sizing Table

**Mounting Options**

- 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

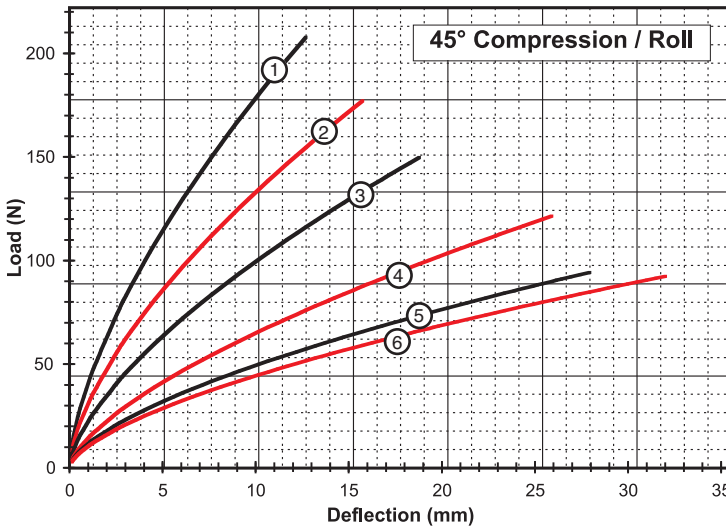
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ◇ Nylon coated wire rope models have different stiffness values compared to the standard models.  
 Please contact Enidine for proper sizing.

### Static Load vs. Deflection



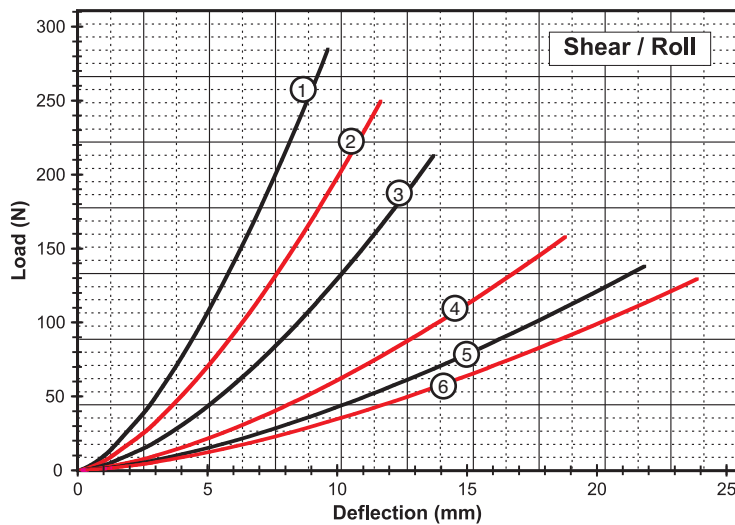
### Compression

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

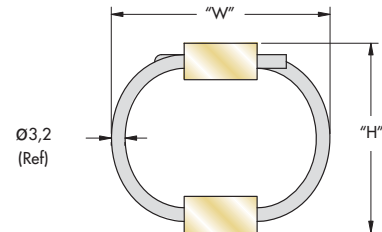
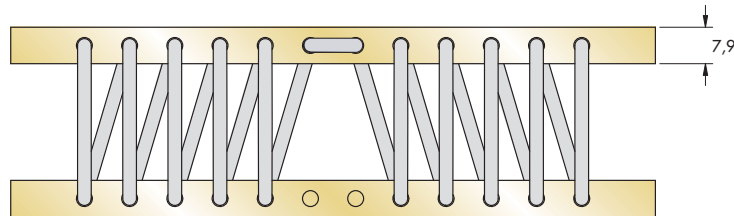
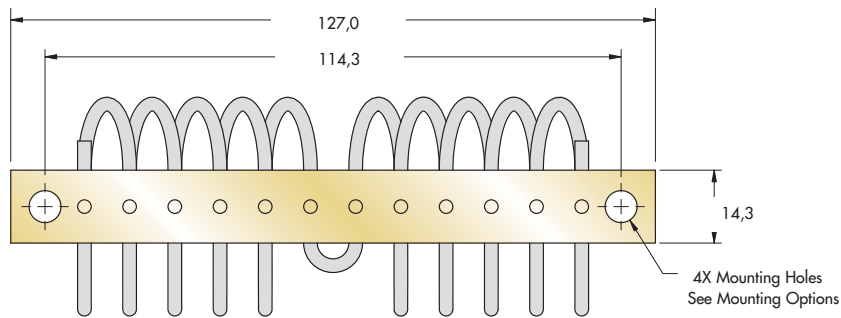


### Shear/Roll

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

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



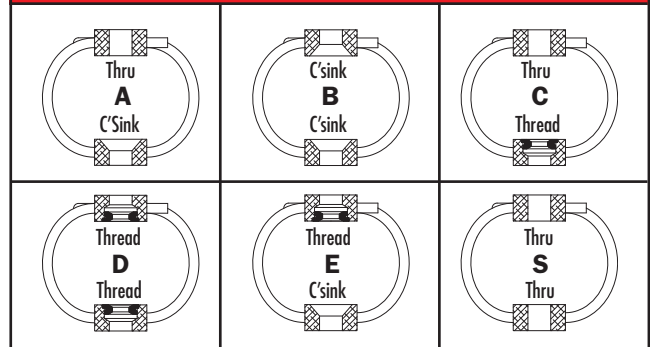


Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR4-100	28	36	0,12	B, D, E	$\varnothing 6,9 \pm 0,13$	M6 X 1,0 (1/4-20 UNC)	90° (82°)
WR4-200	30	38	0,12				
WR4-400	33	41	0,13				
WR4-500	36	43	0,13	A, B, C, D, E, S			
WR4-600	38	46	0,13				
WR4-700	41	48	0,14				
WR4-800	43	51	0,14				

### Model Number Ordering Code

<b>WR4 - 400 - 10 D T M P N R</b>	Feature Options:	* [ ] - None [ R ] - Bellmouth Mount Bars
	Wire Rope Options:	* [ ] - 302/304 Stainless Steel (or Equiv.) [ G ] - Galvanized Steel ◇ [ N ] - Nylon Coated Stainless Steel
	Mount Bar Options:	* [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
	Add "M" for Metric	For C'sink and Threaded Options
	Threaded Hole Options:	* [ ] - Flush Self Clinching Threaded Insert [ H ] - Helical Insert, Free Running [ L ] - Helical Insert, Self Locking [ T ] - Tapped
	Mounting Options:	See Chart
	Number of Loops:	10 (Reduced Number of Loops Available)
	Isolator Size:	See Sizing Table

### Mounting Options

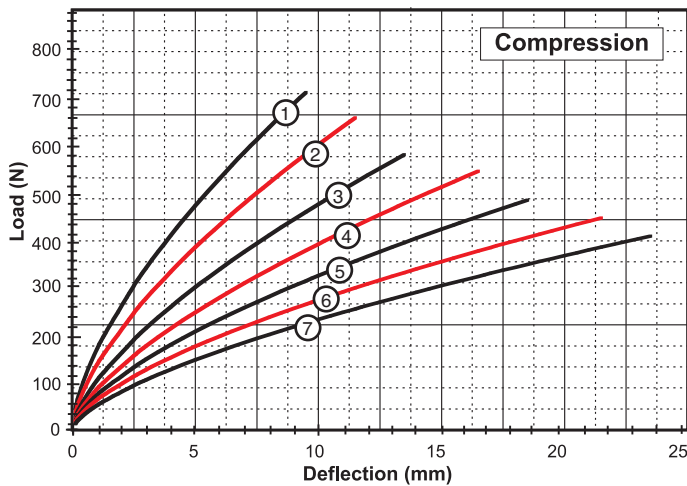


- Maximum recommended torque for standard threaded insert is 3,7 Nm
- Operating Temperature Range: -100°C to 260°C
- U.S. Patent 5,549,285

\* Standard features. Any non-standard items may require longer lead times. Call for quotation.

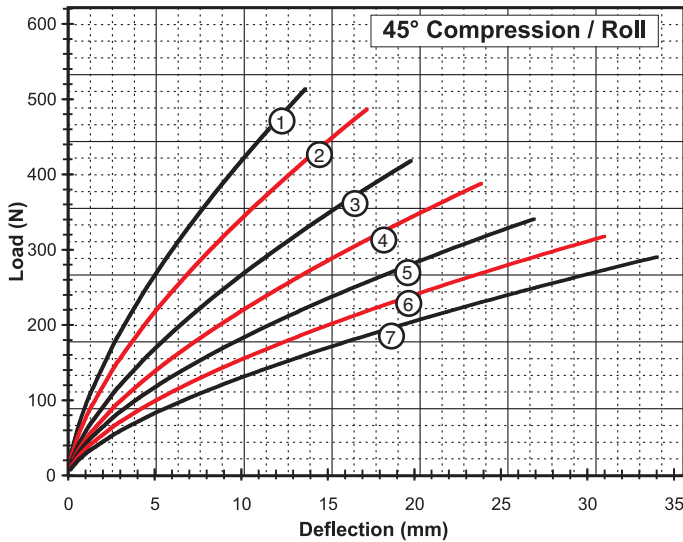
◇ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



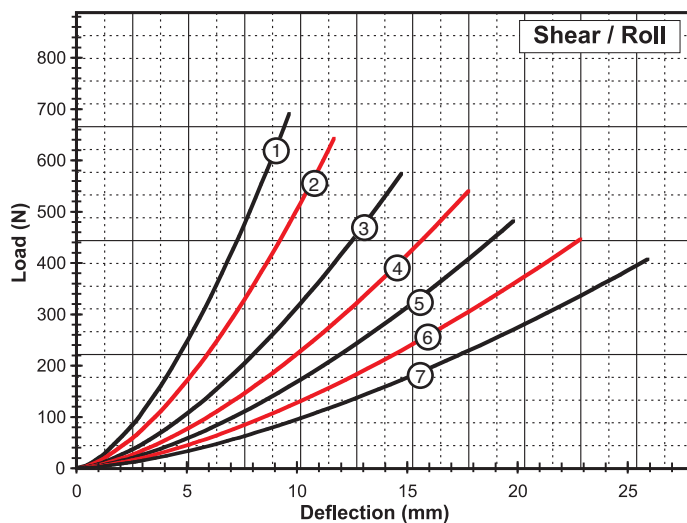
### Compression

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

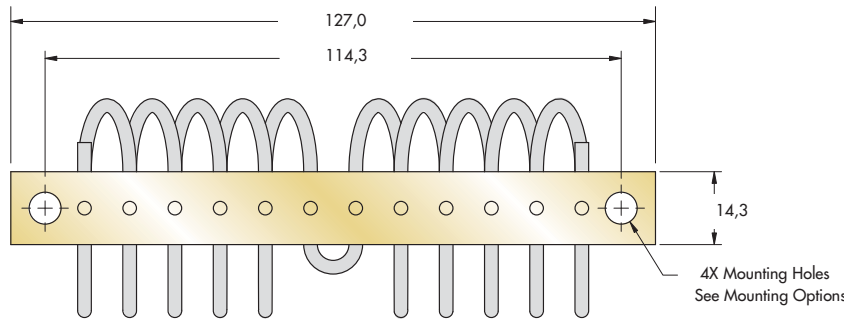
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR4-100-10	149	13,7	86	46
2	WR4-200-10	138	17,3	70	35
3	WR4-400-10	118	19,8	53	25
4	WR4-500-10	111	23,9	44	20
5	WR4-600-10	102	26,9	39	16
6	WR4-700-10	94	31,0	32	12
7	WR4-800-10	84	34,0	26	11



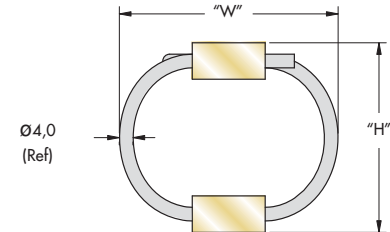
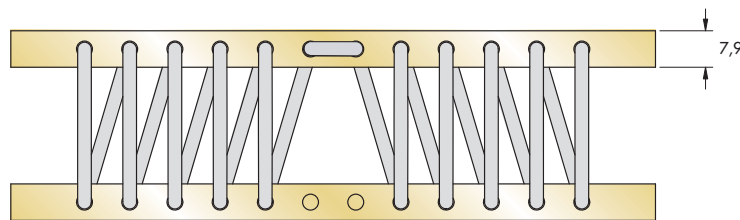
### Shear/Roll

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

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



Note: Dimensions are in mm  
Tolerances are  $\pm .25$ mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR5-200	30	41	0,15	B, D, E	Ø6,9 $\pm$ 0,13	M6 X 1,0 (1/4-20 UNC)	90° (82°)
WR5-400	33	43	0,15	A, B, C, D, E, S			
WR5-600	38	48	0,16				
WR5-800	46	53	0,17				
WR5-900	53	64	0,18				

### Model Number Ordering Code

**WR5 - 400 - 10 D T M P N R**

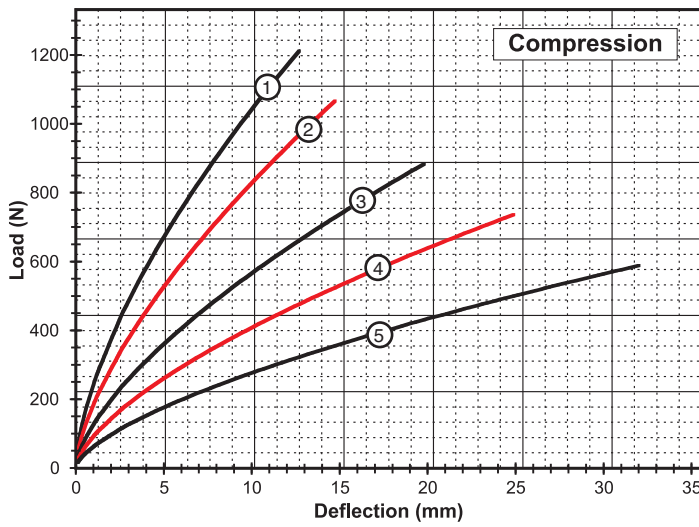
- Feature Options:**
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:**
  - [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:**
  - [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- Add "M" for Metric** For C'sink and Threaded Options
- Threaded Hole Options:**
  - [ ] - Flush Self Clinching Threaded Insert
  - [ H ] - Helical Insert, Free Running
  - [ L ] - Helical Insert, Self Locking
  - [ T ] - Tapped
- Mounting Options:** See Chart
- Number of Loops:** 10 (Reduced Number of Loops Available)
- Isolator Size:** See Sizing Table

### Mounting Options

- 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

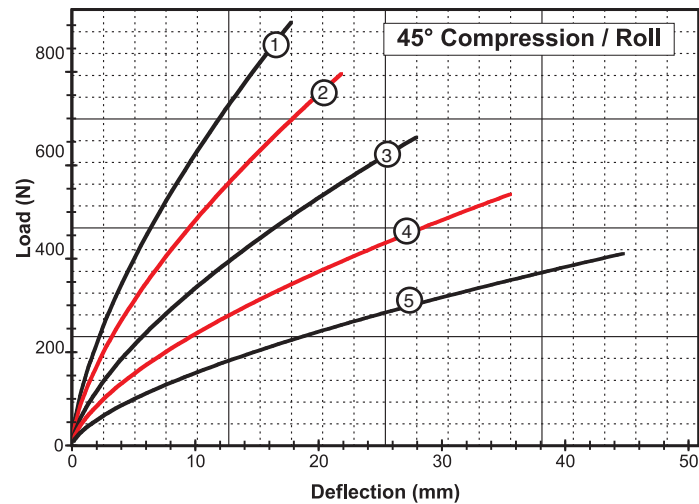
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



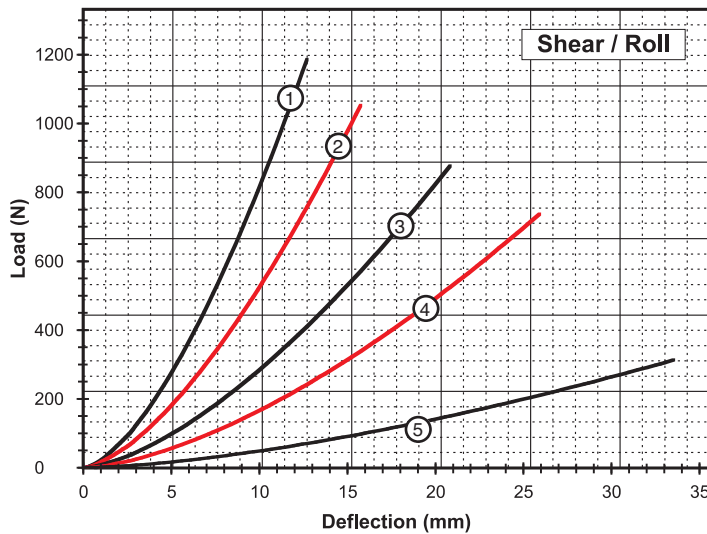
### Compression

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

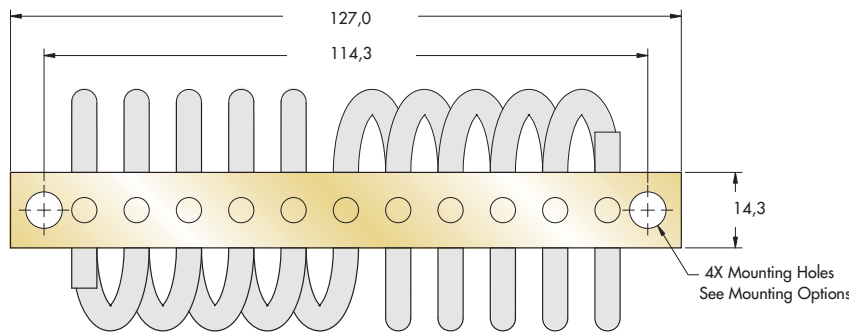
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR5-200-10	254	17,8	123	60
2	WR5-400-10	218	21,8	96	42
3	WR5-600-10	182	27,9	66	28
4	WR5-800-10	151	35,6	48	18
5	WR5-900-10	115	44,7	31	11



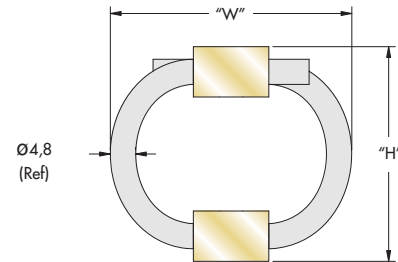
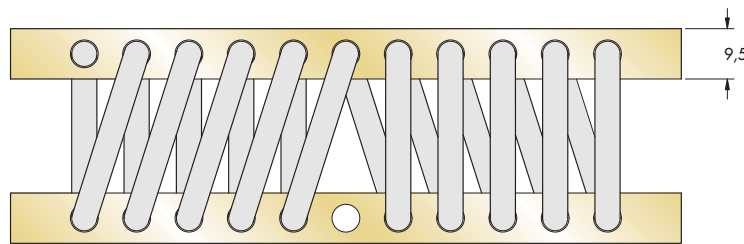
### Shear/Roll

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	WR5-700-10	111	25,9	23	23
5	WR5-900-10	40	33,5	7,9	7,9

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

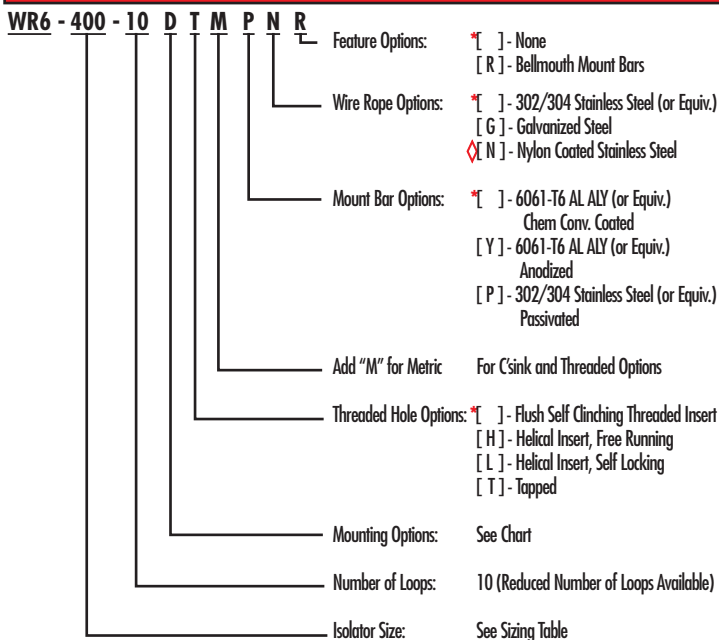


Note: Dimensions are in mm  
Tolerances are ± .25mm

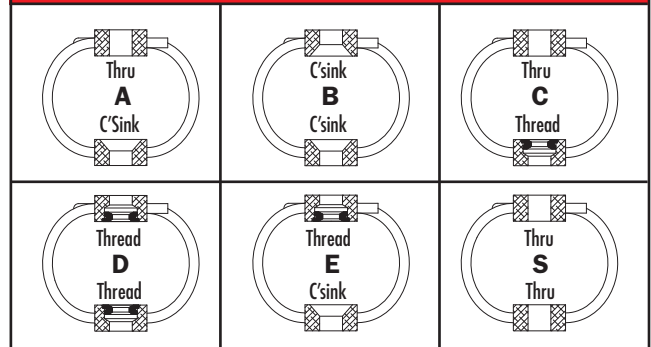


Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR6-200	30	36	0,19	D	Ø6,9 ± 0,13	M6 X 1,0 (1/4-20 UNC)	90° (82°)
WR6-300	33	38	0,20	B, D, E			
WR6-400	36	41	0,21				
WR6-500	38	43	0,21	A, B, C, D, E, S			
WR6-600	41	46	0,22				
WR6-700	43	48	0,25				
WR6-800	51	58	0,26				
WR6-850	54	75	0,27				
WR6-900	62	88	0,28				
WR6-950	81	107	0,29				

### Model Number Ordering Code



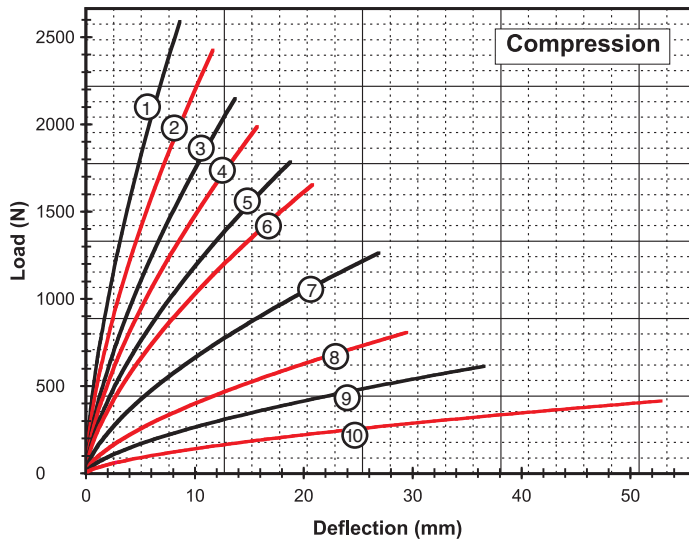
### Mounting Options



- 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

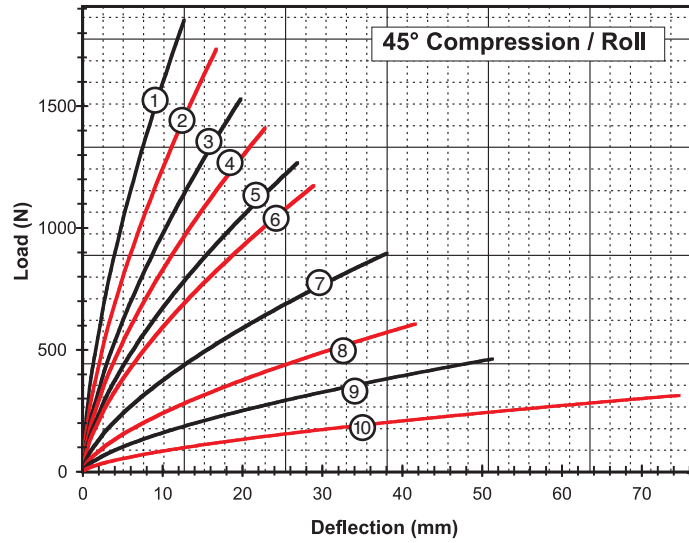
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



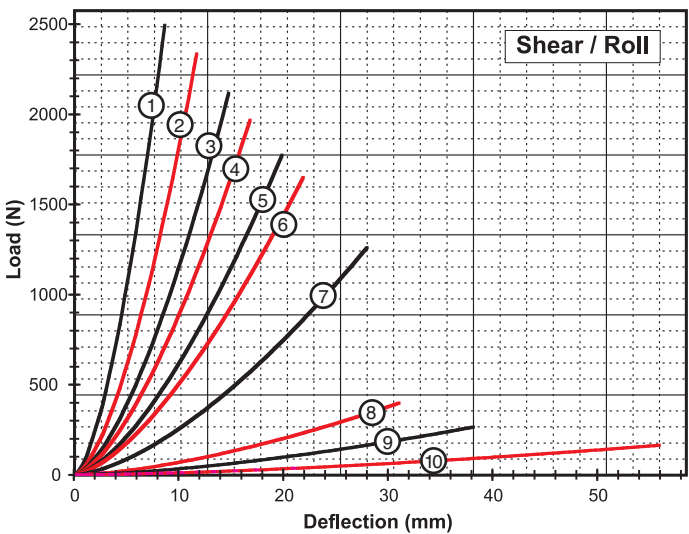
### Compression

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

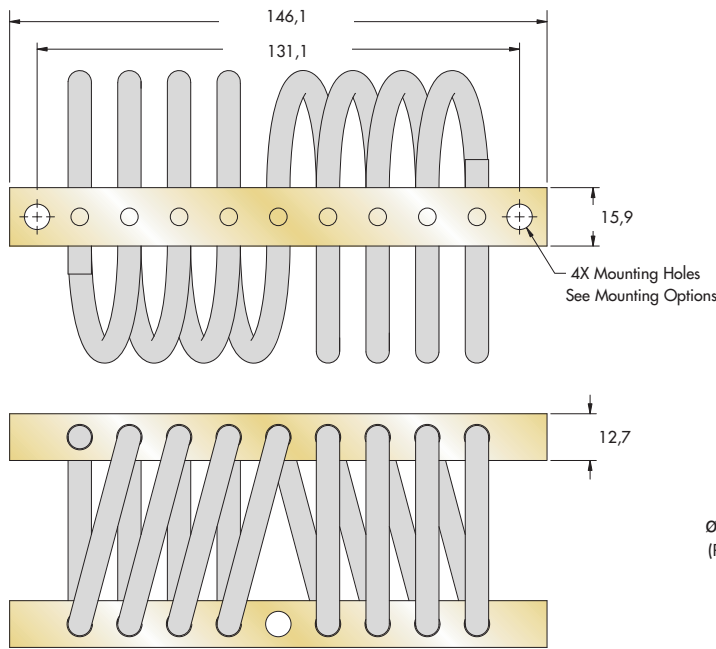
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR6-200-10	534	12,7	341	179
2	WR6-300-10	512	16,8	258	126
3	WR6-400-10	432	19,8	197	93
4	WR6-500-10	409	22,9	172	75
5	WR6-600-10	373	26,9	141	58
6	WR6-700-10	350	29,0	123	49
7	WR6-800-10	260	38,1	77	28
8	WR6-850-10	177	41,7	49	18
9	WR6-900-10	136	51,3	33	11
10	WR6-950-10	91	74,7	18	5.3



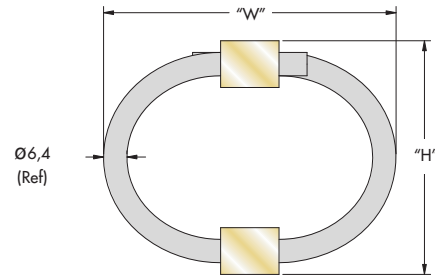
### Shear/Roll

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

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



Note: Dimensions are in mm  
Tolerances are  $\pm .25$ mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR8-200	48	56	0,38	A, B, C, D, E, S	$\text{Ø}6,9 \pm 0,13$	M6 X 1,0 (1/4-28 UNF)	90° (82°)
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 - 8 D T M P N R**

- WR8** - Feature Options
- 400** - Wire Rope Options
- 8** - Mount Bar Options
- D** - Add "M" for Metric
- T** - Threaded Hole Options
- M** - Mounting Options
- P** - Number of Loops
- N** - Isolator Size
- R** - Feature Options

Feature Options:  
 [ ] - None  
 [ R ] - Bellmouth Mount Bars

Wire Rope Options:  
 [ ] - 302/304 Stainless Steel (or Equiv.)  
 [ G ] - Galvanized Steel  
 [ N ] - Nylon Coated Stainless Steel

Mount Bar Options:  
 [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated  
 [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized  
 [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated

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

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

Mounting Options: See Chart

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

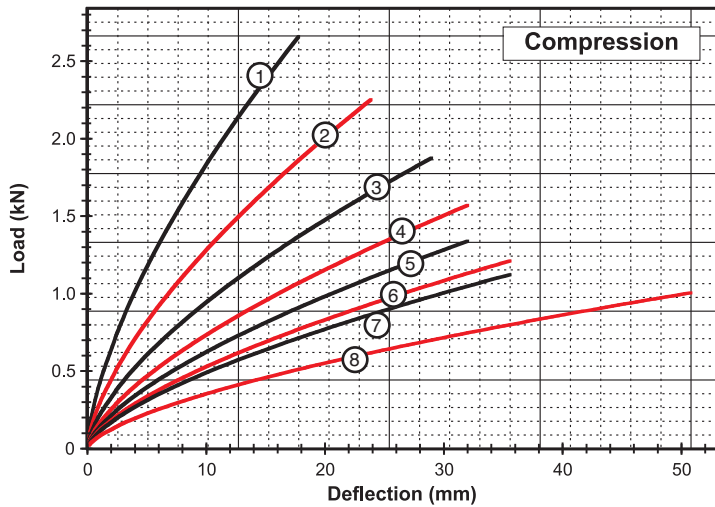
Isolator Size: See Sizing Table

### Mounting Options

- 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

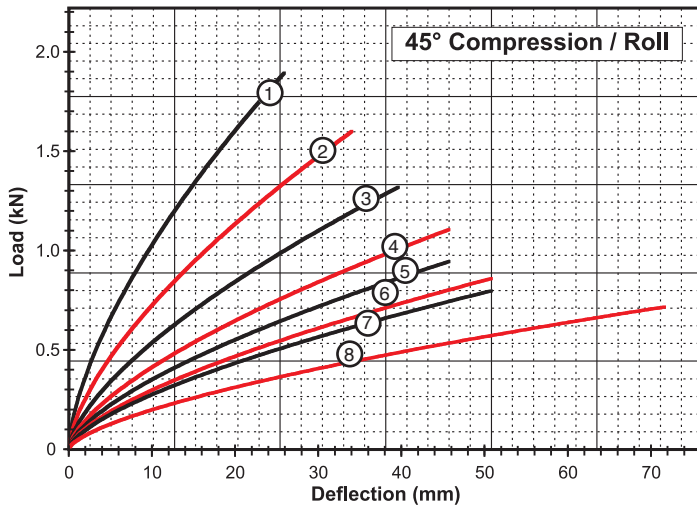
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



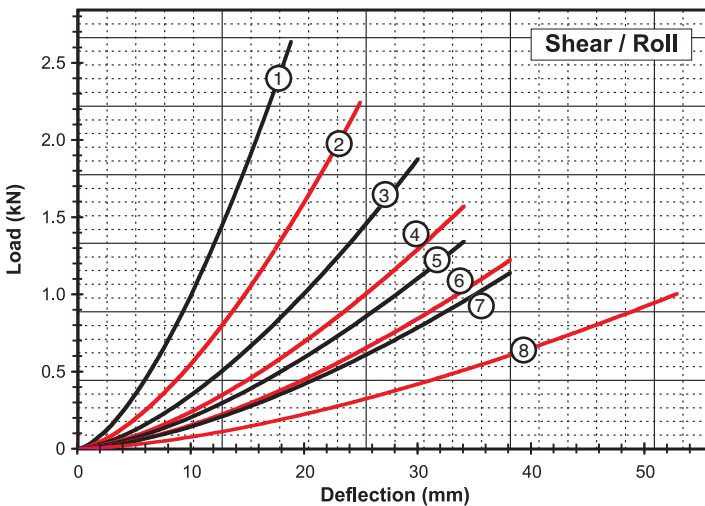
### Compression

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

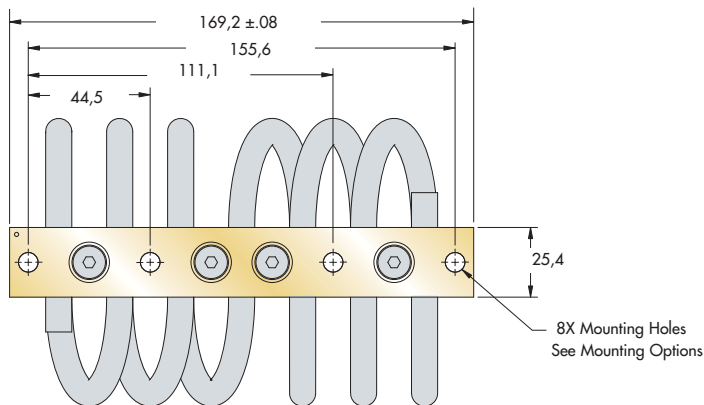
Note: Performance provided for full loop models with standard (302/304) stainless steel cable. Consult ENIDINE for other options. Do not extrapolate curves.



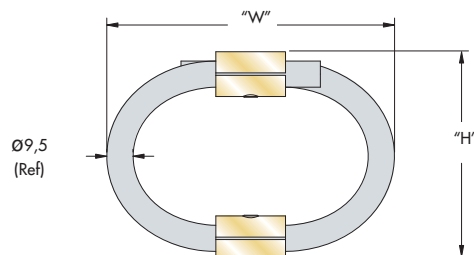
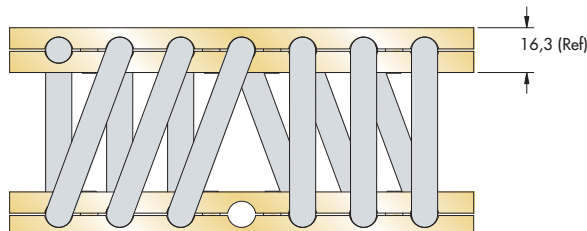
# Wire Rope Isolators

## WR12 Series 6-Loop

### Technical Data



Note: Dimensions are in mm  
Tolerances are  $\pm .25$ mm

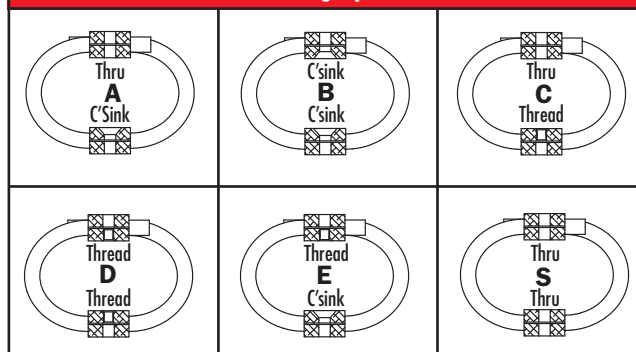


Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR12-206	71	84	0,83	A, B, C, D, E, S	$\varnothing 7,4$ $+0,13$ $-0,38$	M6 X 1,0 (1/4-28 UNF)	90° (82°)
WR12-306	74	89	0,85				
WR12-406	76	105	0,90				
WR12-506	83	108	0,95				
WR12-606	89	108	0,98				
WR12-706	105	121	1,07				
WR12-806	108	140	1,12				

### Model Number Ordering Code

<b>WR12-406-6</b>	<b>D</b>	<b>H</b>	<b>M</b>	<b>P</b>	<b>N</b>	<b>R</b>	
							Feature Options:
							* [ ] - None
							[ R ] - Bellmouth Mount Bars
							Wire Rope Options:
							* [ ] - 302/304 Stainless Steel (or Equiv.)
							[ G ] - Galvanized Steel
							◇ [ N ] - Nylon Coated Stainless Steel
							Mount Bar Options:
							* [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
							[ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
							[ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
							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

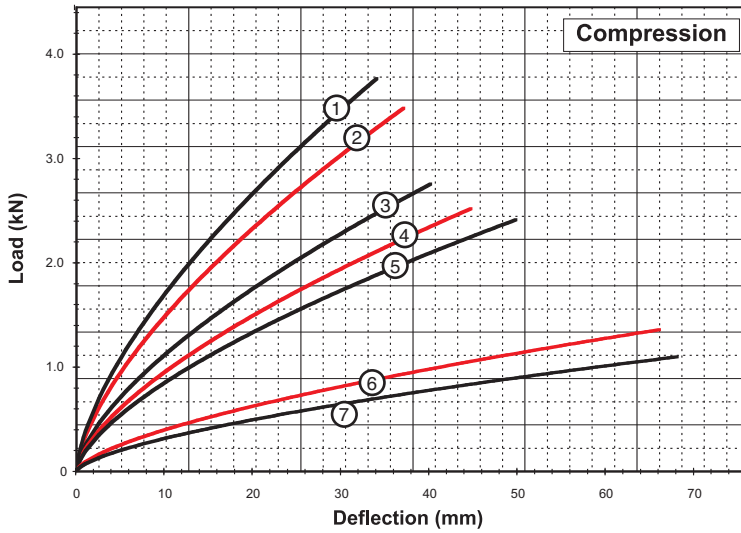


- Maximum recommended torque for threaded bar 10 Nm
- Operating Temperature Range: -100°C to 260°C

\* Standard features. Any non-standard items may require longer lead times. Call for quotation.

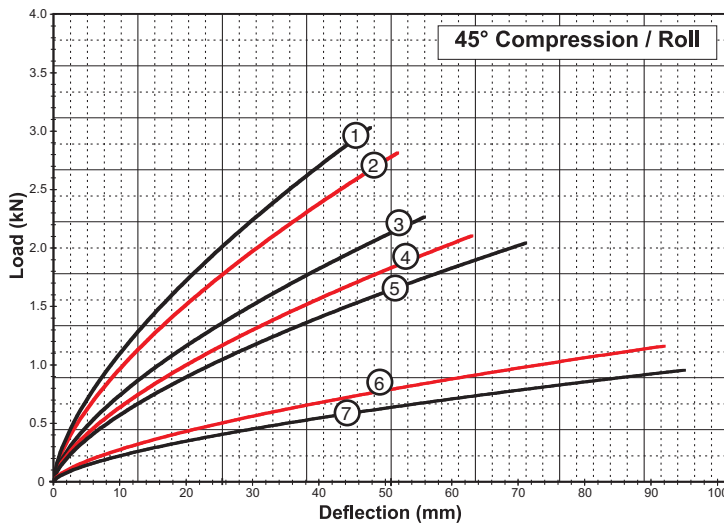
◇ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



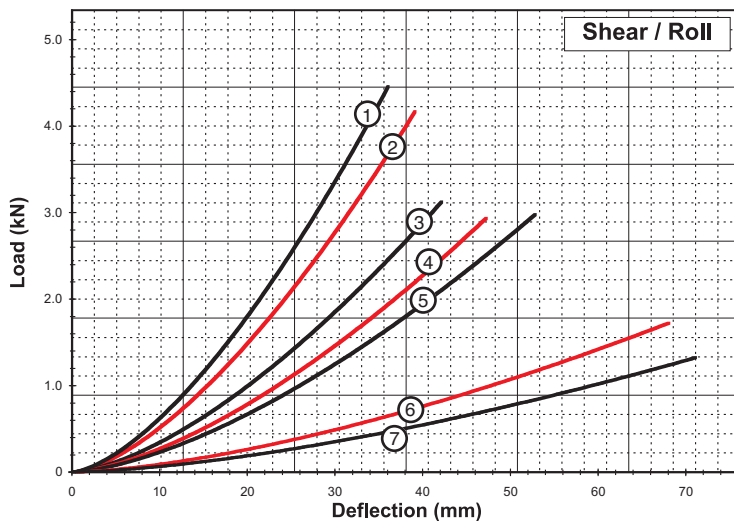
### Compression

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

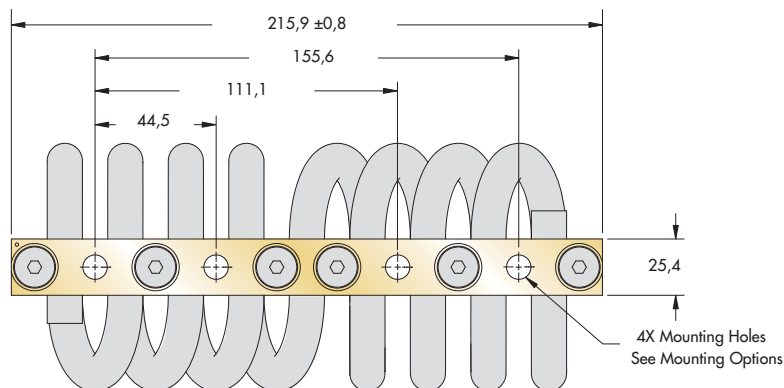
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-206-06	890	47,8	177	77
2	WR12-306-06	823	51,8	156	67
3	WR12-406-06	667	55,9	120	49
4	WR12-506-06	623	63,0	103	40
5	WR12-606-06	601	71,1	92	35
6	WR12-706-06	341	91,9	44	16
7	WR12-806-06	280	95,0	36	12



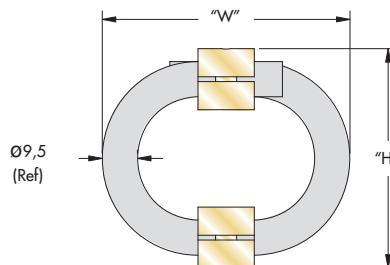
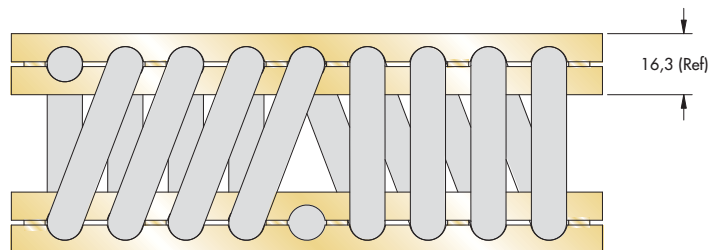
### Shear / Roll

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	98
2	WR12-306-06	645	39,1	84	84
3	WR12-406-06	489	42,2	58	58
4	WR12-506-06	467	47,2	49	49
5	WR12-606-06	445	52,8	44	44
6	WR12-706-06	200	68,1	20	20
7	WR12-806-06	156	71,1	15	15

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



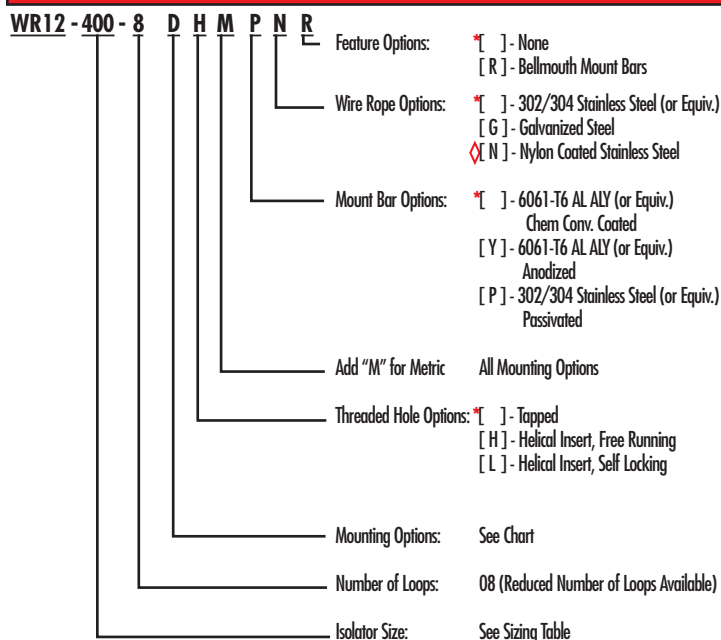
Note: Dimensions are in mm  
Tolerances are ± .25mm



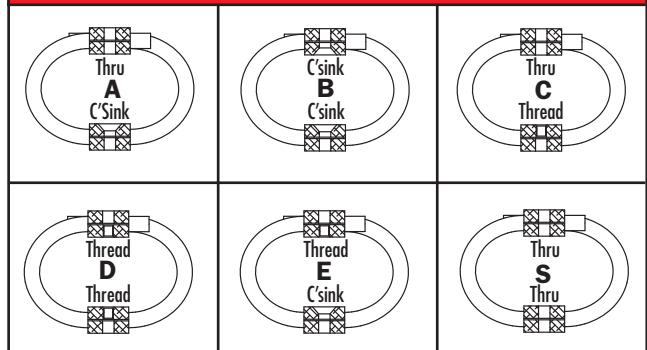
Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR12-200	71	84	1,10	A, B, C, D, E, S	Ø9,0 +0,13 -0,38	*M8 X 1,25 (1/4-28 UNF)	90° (82°)
WR12-300	74	89	1,13				
WR12-400	76	105	1,20				
WR12-500	83	108	1,26				
WR12-600	89	108	1,30				
WR12-700	105	121	1,43				
WR12-800	108	140	1,50				

\* Tapped M8 x 1.25, Inserts M6 x 1.0

### Model Number Ordering Code



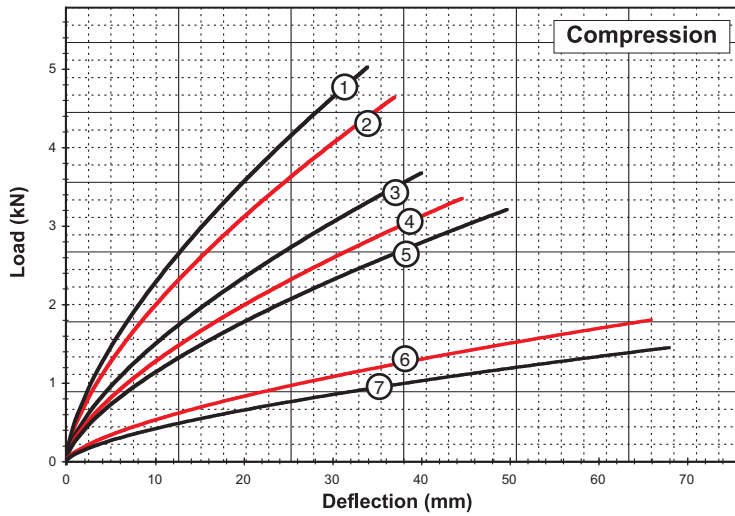
### Mounting Options



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

\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
◊ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

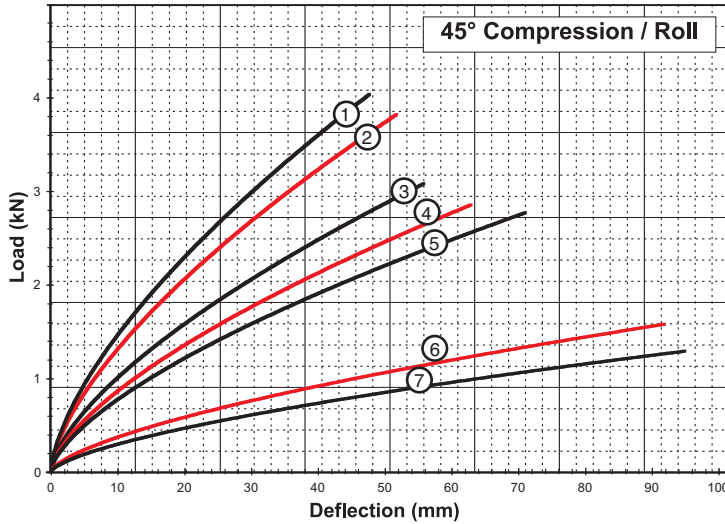
### Static Load vs. Deflection



### Compression

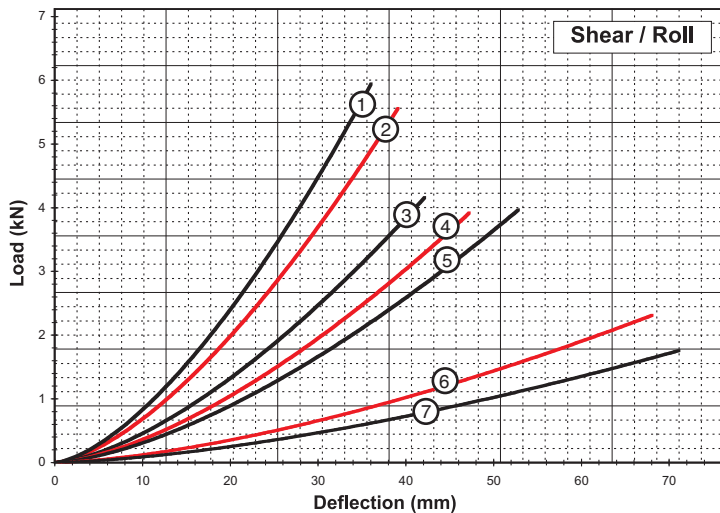
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-200-08	1 468	34,0	366	179
2	WR12-300-08	1 357	37,1	320	152
3	WR12-400-08	1 068	40,1	242	110
4	WR12-500-08	979	44,7	205	91
5	WR12-600-08	934	49,8	182	79
6	WR12-700-08	534	66,0	86	33
7	WR12-800-08	423	68,1	67	26

### 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



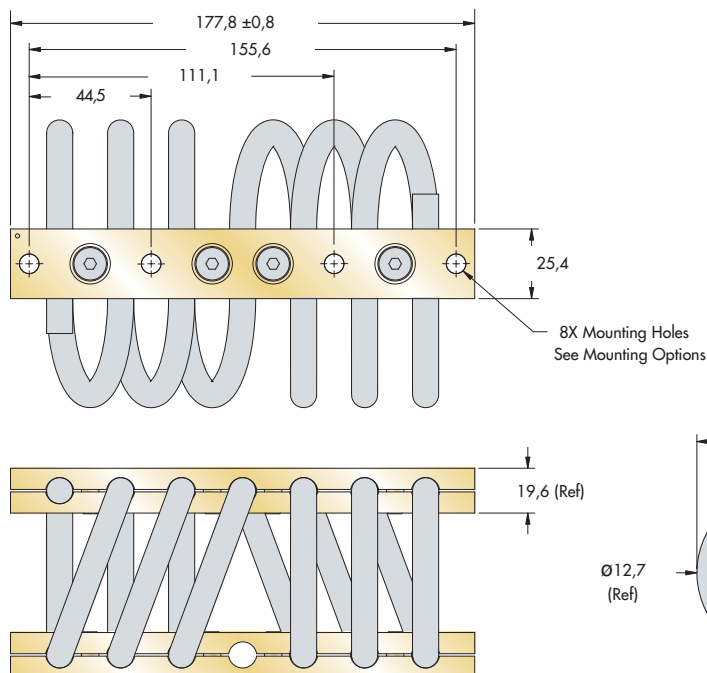
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR12-200-08	912	36,1	130	130
2	WR12-300-08	867	39,1	112	112
3	WR12-400-08	667	42,2	77	77
4	WR12-500-08	623	47,2	65	65
5	WR12-600-08	601	52,8	60	60
6	WR12-700-08	267	68,1	27	27
7	WR12-800-08	200	71,1	19	19

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

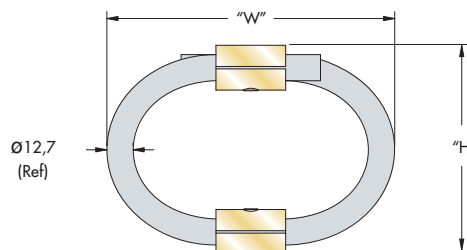
# Wire Rope Isolators

## WR16 Series 6-Loop

### Technical Data



Note: Dimensions are in mm  
Tolerances are ± .25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR16-206	76	92	1,36	A, B, C, D, E, S	Ø9,0 <sup>+0,13</sup> <sub>-0,38</sub>	*M8 X 1,25 (1/4-28 UNF)	90° (82°)
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

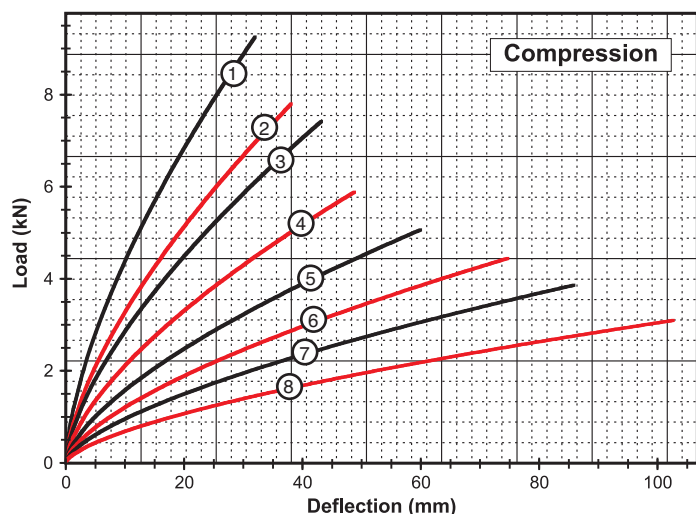
Model Number Ordering Code	
WR16-406-6	<p><b>D</b> - Feature Options:                      [ ] - None                      [ R ] - Bellmouth Mount Bars</p> <p><b>H</b> - Wire Rope Options:                      * [ ] - 302/304 Stainless Steel (or Equiv.)                      [ G ] - Galvanized Steel                      [ N ] - Nylon Coated Stainless Steel</p> <p><b>M</b> - Mount Bar Options:                      * [ ] - 6061-T6 AL ALY (or Equiv.)                      Chem Conv. Coated                      [ Y ] - 6061-T6 AL ALY (or Equiv.)                      Anodized                      [ P ] - 302/304 Stainless Steel (or Equiv.)                      Passivated</p> <p><b>P</b> - Add "M" for Metric For C'sink and Threaded Options</p> <p><b>N</b> - Threaded Hole Options:                      * [ ] - Tapped                      [ H ] - Helical Insert, Free Running                      [ L ] - Helical Insert, Self Locking</p> <p><b>R</b> - Mounting Options: See Chart</p> <p>Number of Loops: 06 (Reduced Number of Loops Available)</p> <p>Isolator Size: See Sizing Table</p>

Mounting Options		

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

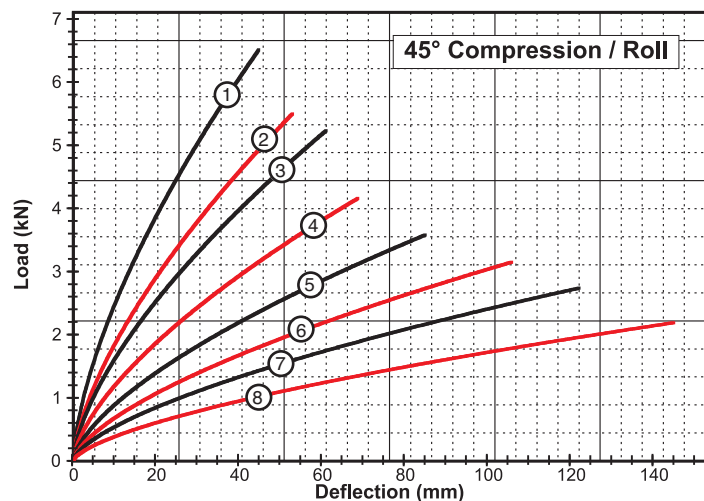
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

**Static Load vs. Deflection**



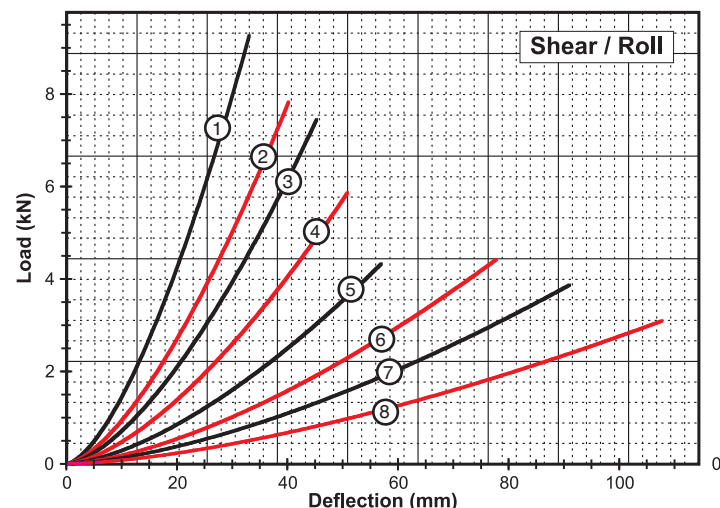
**Compression**

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-206-06	2 736	32,0	716	352
2	WR16-306-06	2 291	38,1	531	249
3	WR16-406-06	2 157	43,2	461	208
4	WR16-606-06	1 735	48,8	343	147
5	WR16-706-06	1 468	59,9	256	103
6	WR16-806-06	1 290	74,7	196	72
7	WR16-856-06	1 134	85,9	154	54
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**

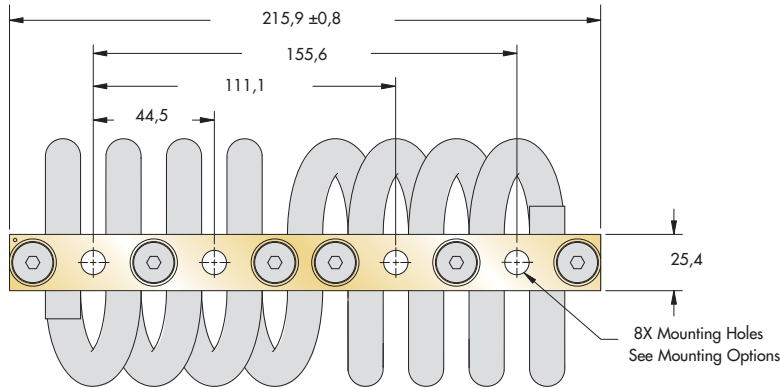
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-206-06	1 490	33,0	221	221
2	WR16-306-06	1 223	40,1	156	156
3	WR16-406-06	1 134	45,2	130	130
4	WR16-606-06	912	50,8	91	91
5	WR16-706-06	601	56,9	60	60
6	WR16-806-06	445	77,7	46	46
7	WR16-856-06	334	90,9	33	33
8	WR16-906-06	222	107,7	23	23

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

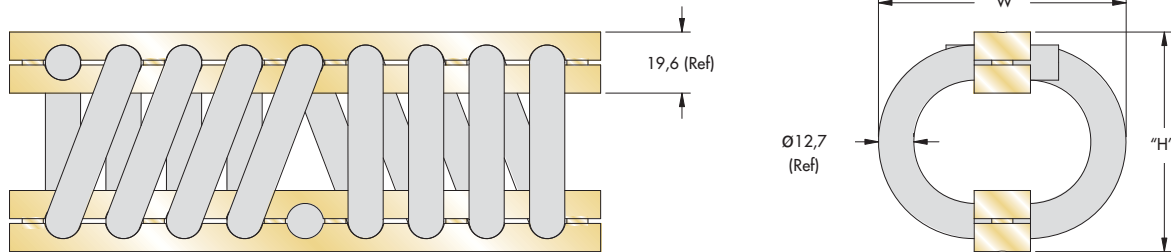
# Wire Rope Isolators

## WR16 Series

### Technical Data



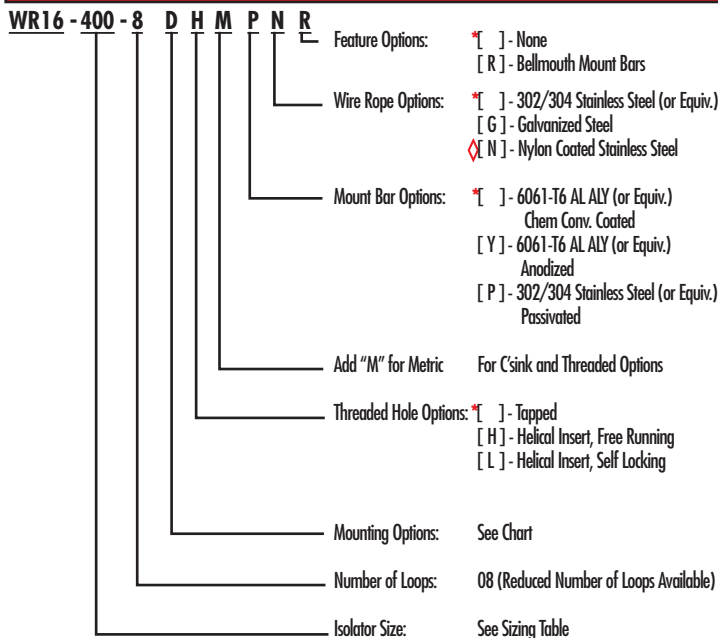
Note: Dimensions are in mm  
Tolerances are ± .25mm



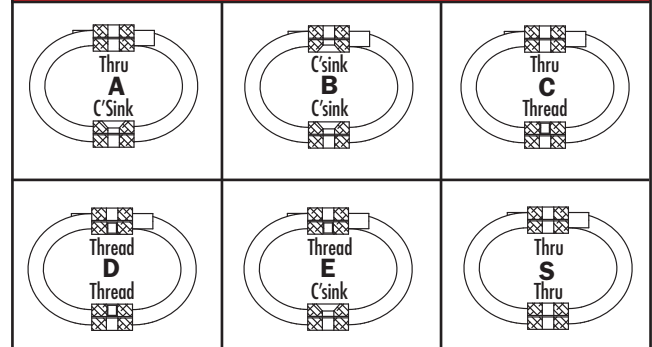
Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR16-200	76	92	1,81	A, B, C, D, E, S	Ø9.0 +0.13 - 0.38	*M8 X 1,25 (1/4-28 UNF)	90° (82°)
WR16-300	83	102	1,91				
WR16-400	89	105	2,00				
WR16-600	95	121	2,22				
WR16-700	108	133	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



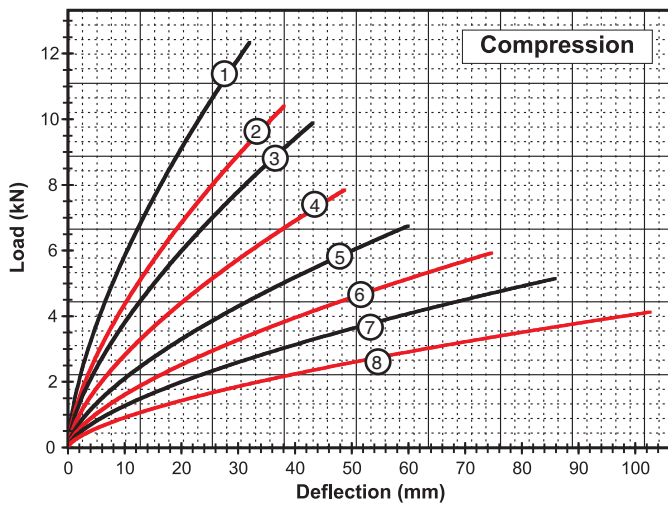
### Mounting Options



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

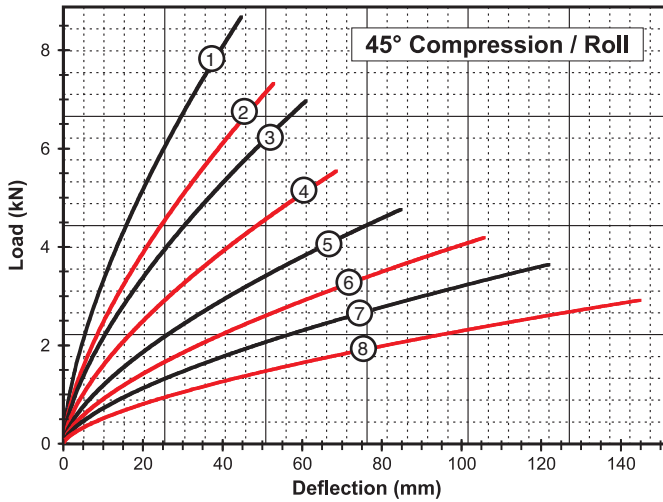
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

**Static Load vs. Deflection**



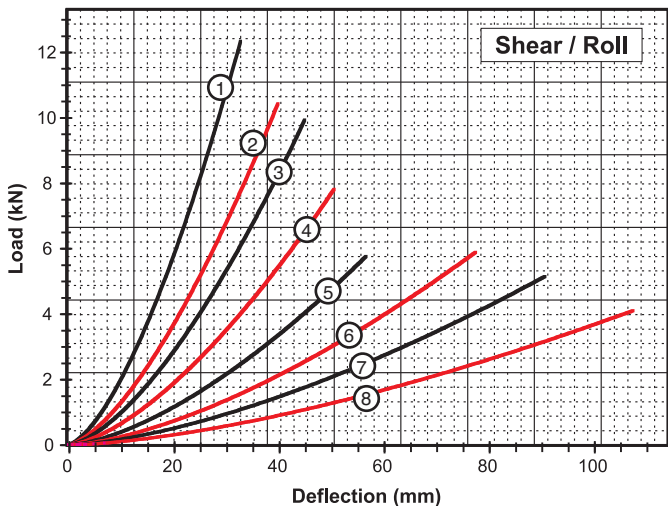
**Compression**

Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-200-08	3 648	32,0	954	471
2	WR16-300-08	3 047	38,1	708	333
3	WR16-400-08	2 869	43,2	613	278
4	WR16-600-08	2 313	48,8	457	196
5	WR16-700-08	1 957	59,9	340	137
6	WR16-800-08	1 735	74,7	261	96
7	WR16-850-08	1 512	85,9	207	74
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

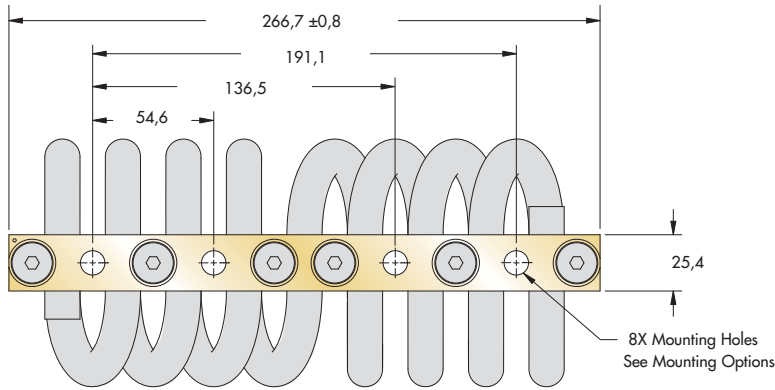


**Shear/Roll**

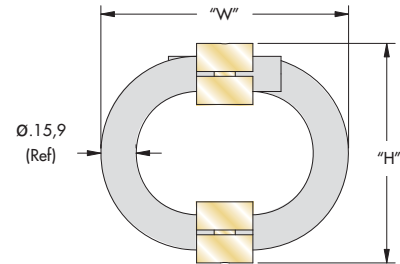
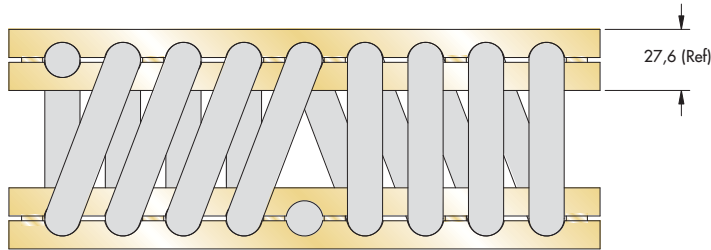
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR16-200-08	2 936	33,0	294	294
2	WR16-300-08	1 713	40,1	207	207
3	WR16-400-08	1 557	45,2	173	173
4	WR16-600-08	1 201	50,8	121	121
5	WR16-700-08	801	56,9	81	81
6	WR16-800-08	601	77,7	60	60
7	WR16-850-08	445	90,9	46	46
8	WR16-900-08	289	107,7	30	30

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



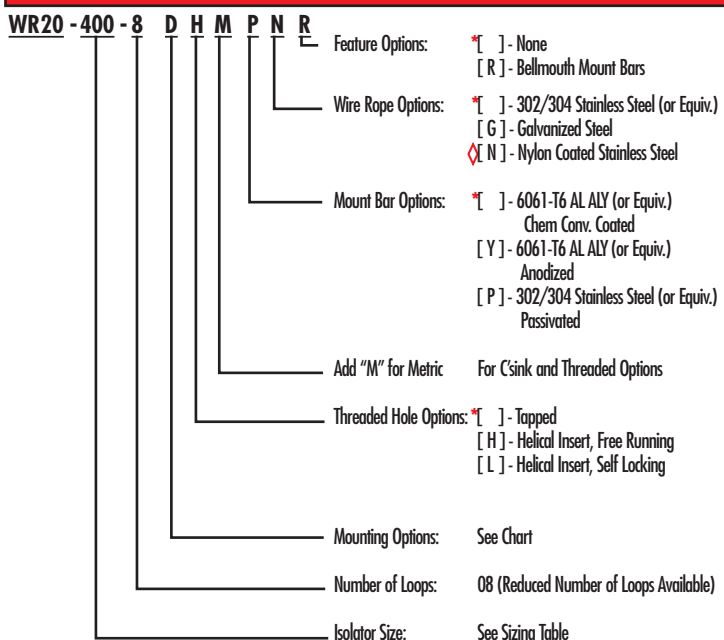


Note: Dimensions are in mm  
Tolerances are ± .25mm

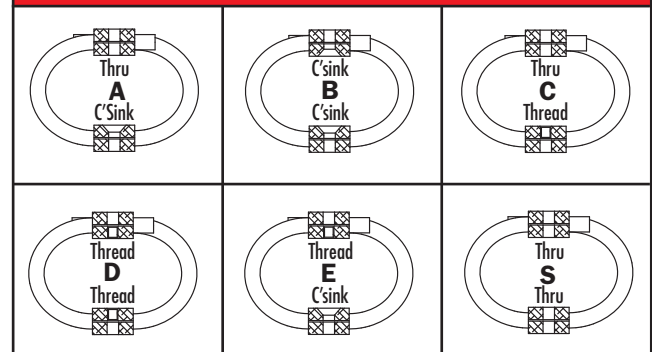


Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR20-200	89	102	3,00	C, D	Ø11,0 + 0,13 - 0,38	M10 X 1,5 (3/8-24 UNF)	90° (82°)
WR20-300	99	112	3,20	A, B, C, D, E, S			
WR20-400	102	121	3,40				
WR20-600	109	135	3,70				
WR20-700	119	152	4,00				
WR20-800	127	165	4,31				
WR20-900	135	178	4,63				

#### Model Number Ordering Code



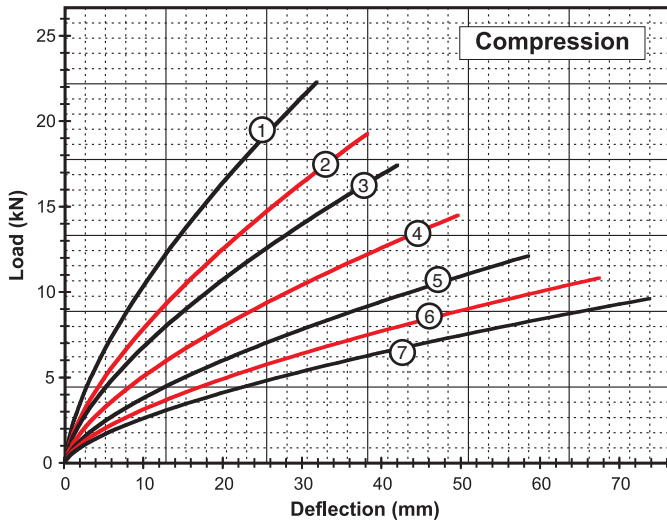
#### Mounting Options



- Maximum recommended torque for threaded bar is 50 Nm
- Operating Temperature Range: -100°C to 260°C

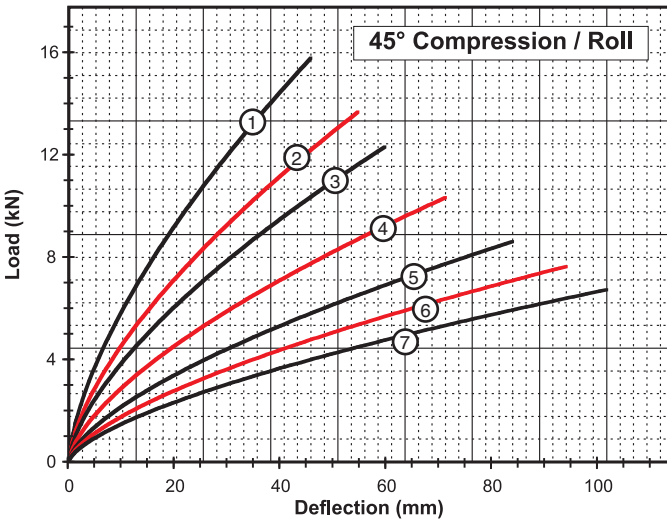
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
◊ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

**Static Load vs. Deflection**



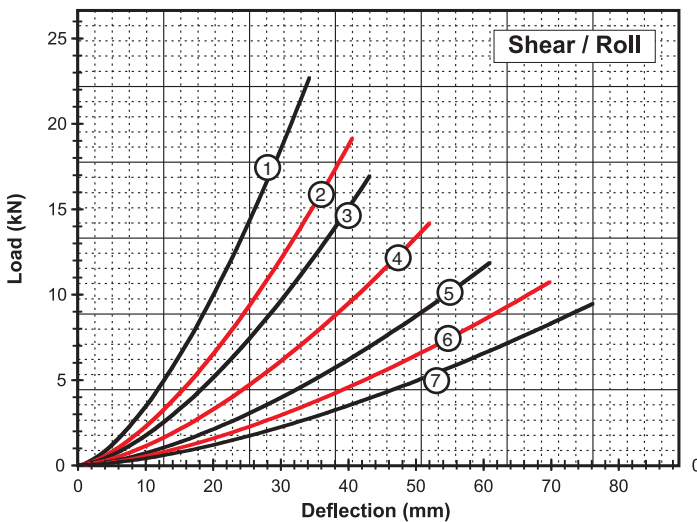
**Compression**

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**

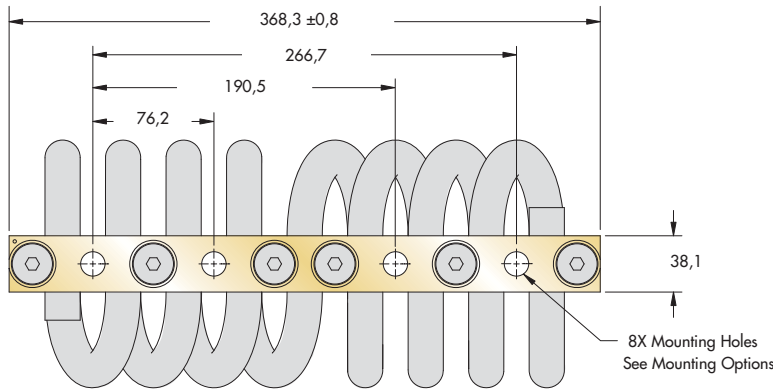
Curve	Model	Max Static Load N	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR20-200-08	3 514	34,3	524	524
2	WR20-300-08	3 025	40,6	375	375
3	WR20-400-08	2 624	43,2	308	308
4	WR20-600-08	2 135	52,1	215	215
5	WR20-700-08	1 512	61,0	152	152
6	WR20-800-08	1 223	69,9	123	123
7	WR20-900-08	979	76,2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

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

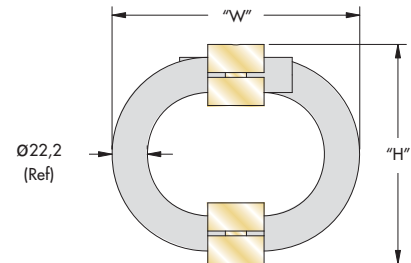
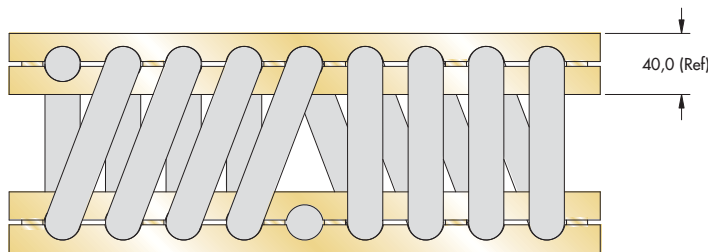
# Wire Rope Isolators

## WR28 Series

### Technical Data



Note: Dimensions are in mm  
Tolerances are ± .25mm



Size	Height "H" in. mm	Width Ref "W" in. mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR28-200	133	140	8,40	C, D	Ø13,5 +0,13 -0,38	M12 X 1,75 (1/2-13 UNC)	90° (82°)
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 - 8 D H M P N R**

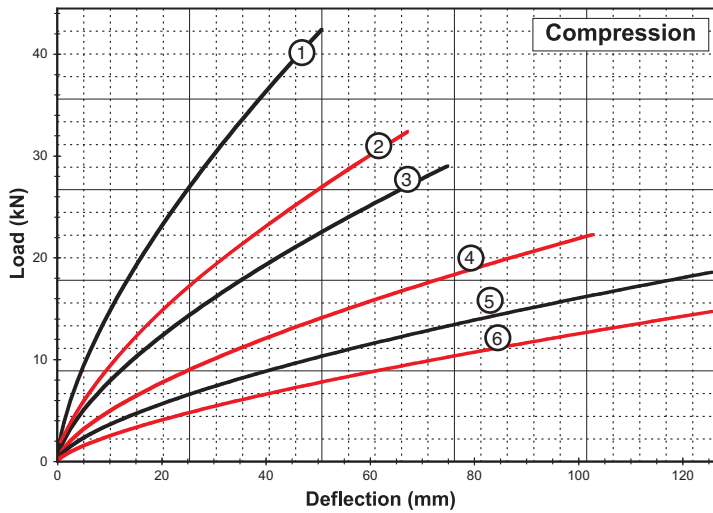
- Feature Options:**
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:**
  - [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:**
  - [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- 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

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

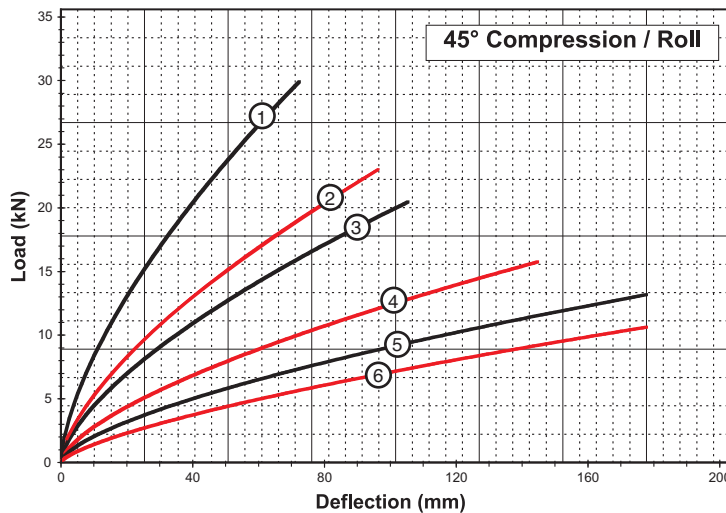
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
 ♦ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

### Static Load vs. Deflection



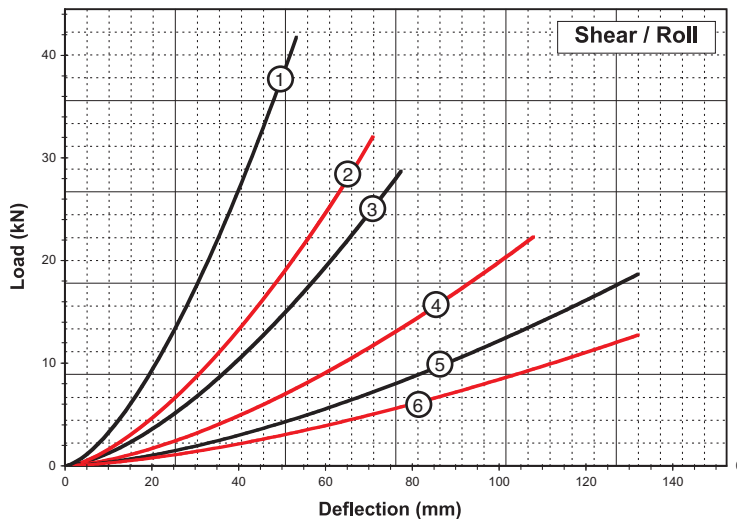
### Compression

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

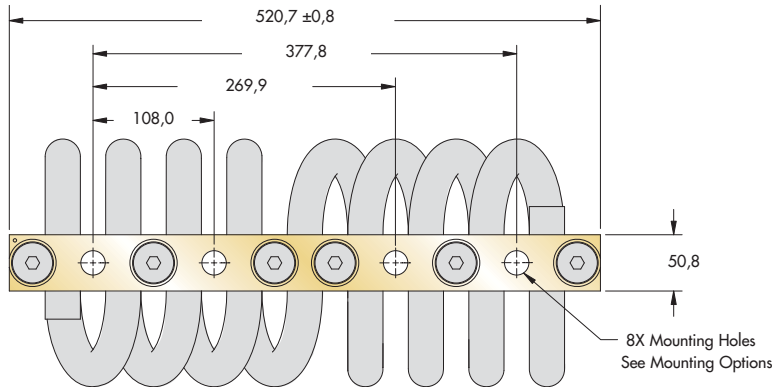
Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR28-200-08	8,72	72,4	1 348	503
2	WR28-400-08	6,67	96,5	860	289
3	WR28-600-08	6,01	105,4	718	235
4	WR28-800-08	4,45	144,8	448	131
5	WR28-900-08	3,25	177,8	327	89
6	WR28-950-08	2,11	177,8	212	70



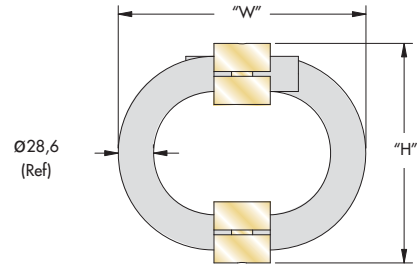
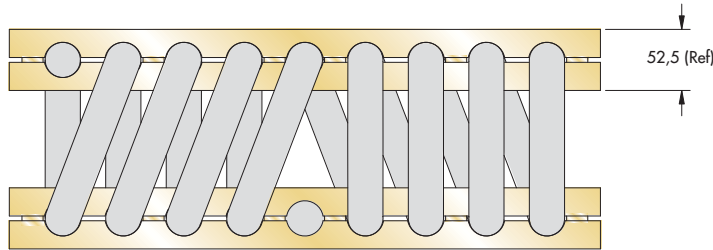
### Shear / Roll

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

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



Note: Dimensions are in mm  
Tolerances are ± .25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR36-200	178	216	20,9	A, B, C, D, E, S	Ø19,8 +0,13 -0,38	M18 X 2,5 (3/4-10 UNC)	90° (82°)
WR36-400	216	241	24,0				
WR36-600	235	260	25,0				

### Model Number Ordering Code

**WR36 - 400 - 8 D H M P N R**

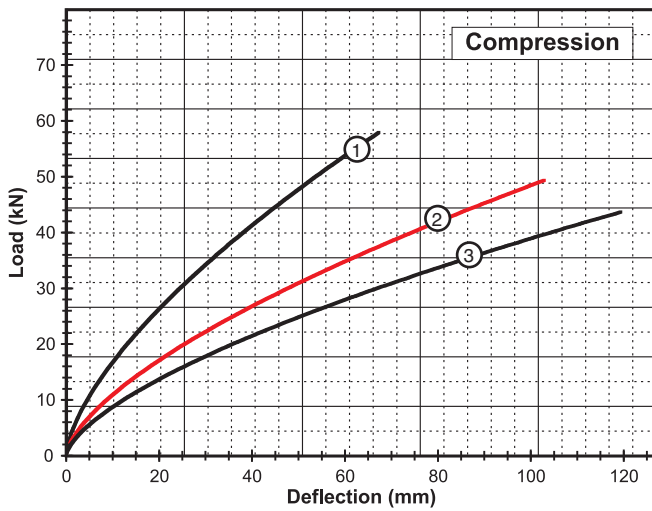
- Feature Options:**
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:**
  - [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - ◇ [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:**
  - [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- 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

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

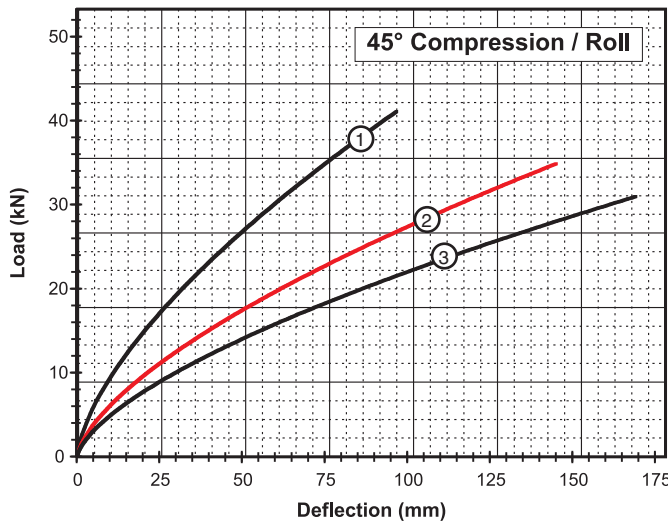
\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
◇ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

**Static Load vs. Deflection**



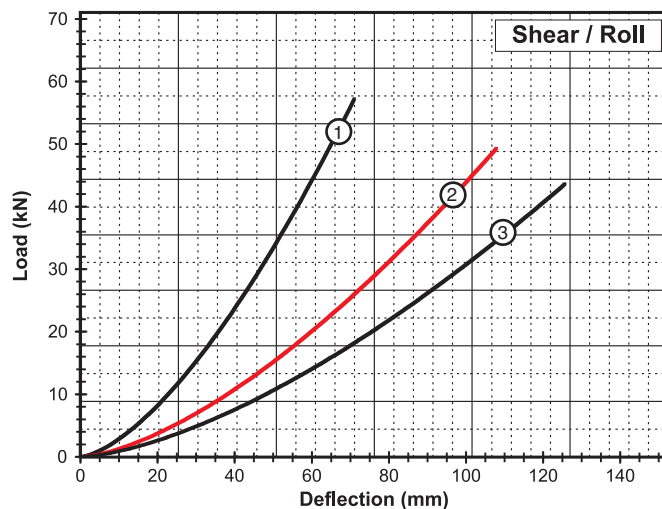
**Compression**

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**

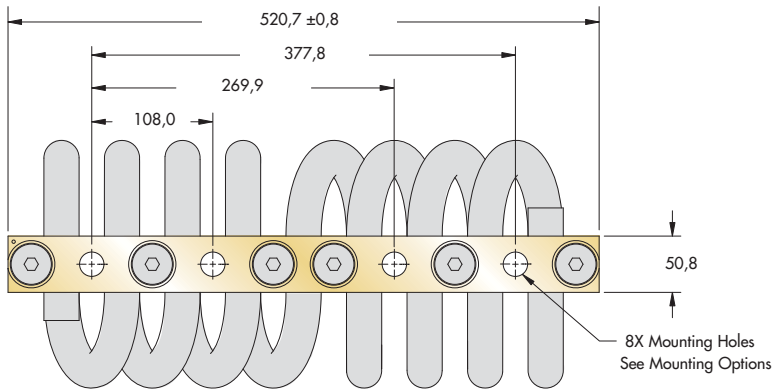
Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR36-200-08	11,97	96,5	1 541	518
2	WR36-400-08	9,88	144,8	993	292
3	WR36-600-08	7,96	168,9	799	222



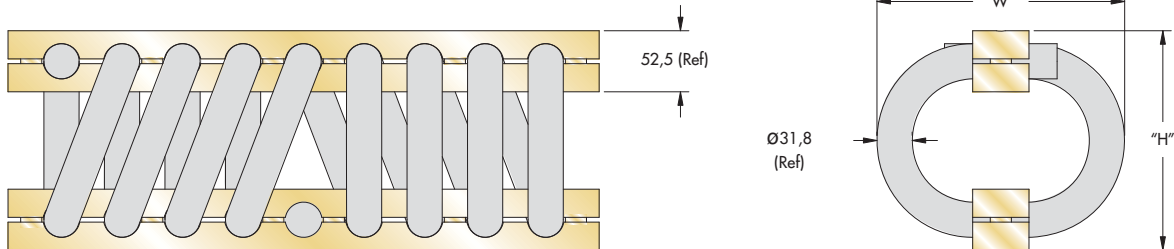
**Shear/Roll**

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

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



Note: Dimensions are in mm  
Tolerances are ± .25mm



Size	Height "H" mm	Width Ref "W" mm	Unit Weight Kg	Mounting Options	Thru Hole mm	Thread mm (in.)	C'sink Metric (Imperial)
WR40-200	178	210	24,0	A, B, C, D, E, S	Ø19,8 <sup>+0,13</sup> <sub>-0,38</sub>	M18 X 2,5 (3/4-10 UNC)	90°
WR40-400	216		27,2				(82°)

#### Model Number Ordering Code

**WR40 - 400 - 8 D H M P N R**

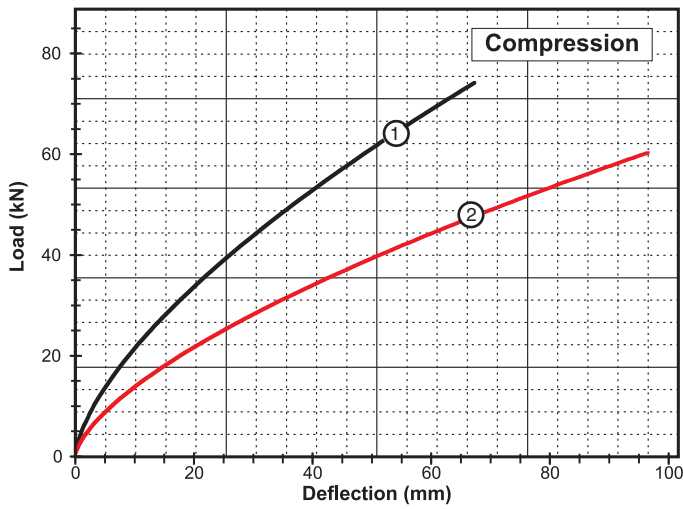
- Feature Options:**
  - [ ] - None
  - [ R ] - Bellmouth Mount Bars
- Wire Rope Options:**
  - [ ] - 302/304 Stainless Steel (or Equiv.)
  - [ G ] - Galvanized Steel
  - ◊ [ N ] - Nylon Coated Stainless Steel
- Mount Bar Options:**
  - [ ] - 6061-T6 AL ALY (or Equiv.) Chem Conv. Coated
  - [ Y ] - 6061-T6 AL ALY (or Equiv.) Anodized
  - [ P ] - 302/304 Stainless Steel (or Equiv.) Passivated
- 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

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

\* Standard features. Any non-standard items may require longer lead times. Call for quotation.  
◊ Nylon coated wire rope models have different stiffness values compared to the standard models. Please contact Enidine for proper sizing.

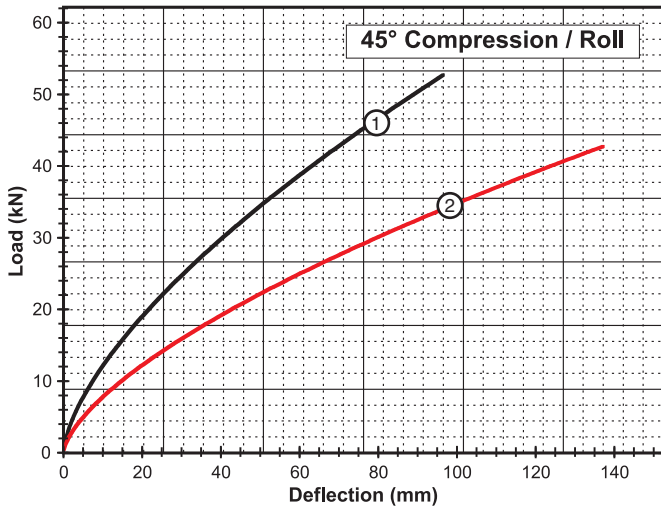
**Static Load vs. Deflection**



**Compression**

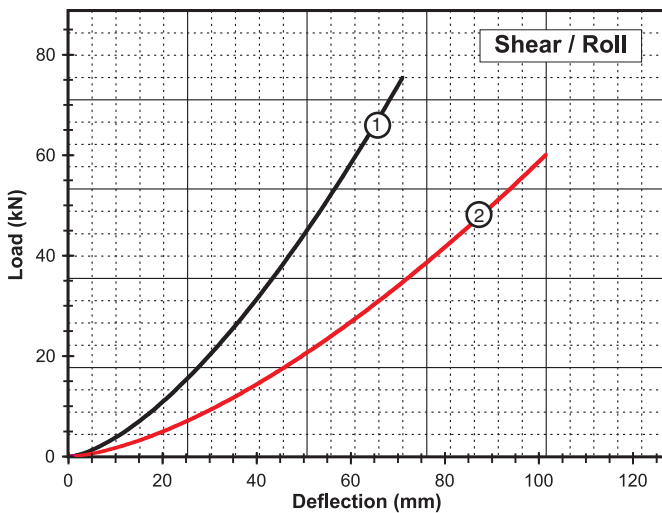
Curve	Model	Max Static Load kN	Max Deflection mm	Kv (vibration) kN/m	Ks (shock) kN/m
1	WR40-200-08	21,62	67,3	3 468	1 338
2	WR40-400-08	17,61	96,5	2 236	758

**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

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