



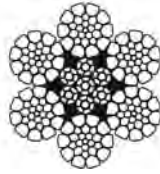
Wireco



**Flex-X® 6**

Increased rope stability

- Superior performance 6-strand rope
- Increased service life
- Less sheave and drum wear



Most applications for wire rope are extremely demanding. Wire rope must resist crushing, bending fatigue, and abrasion. For example, clamshell closing lines must resist bending fatigue and boom hoists are subject to pressures that cause crushing. Overhead hoists test the stability and strength of a wire rope. All drum-related applications demand a rope that will spool and operate smoothly and dependably.

For crane applications where rotation-resistance is not required, Flex-X 6 provides users with superior performance and increased service life in many applications compared to the ropes they had previously employed. When compared to conventional 6 strand ropes, Flex-X 6 ropes provide greater surface area and more steel per given diameter, which increases rope stability and strength, too. This results in longer service life and less sheave and drum wear.

**FLEX-X 6 is recommended for:**

**CRAWLER AND TRUCK CRANES**  
Main hoist rope  
Boom hoist rope

**CLAMSHELLS AND GRAPPLES**  
Holding line  
Closing line  
Boom hoist rope

**PEDESTAL/TOWER LUFFING CRANES**  
Boom hoist rope

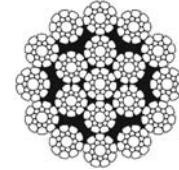
Flex-X® 6		
Approximate Weight Per Foot (lbs)	Minimum Breaking Force Tons (2,000 lbs)	Diameter (in.)
0.32	8.8	3/8
0.41	11.9	7/16
0.55	15.3	1/2
0.70	19.3	9/16
0.86	22.7	5/8
1.25	32.4	3/4
1.67	43.8	7/8
2.18	56.9	1
2.71	71.5	1-1/8
3.43	87.9	1-1/4
4.25	106	1-3/8
5.01	125	1-1/2

Should not be used with a swivel.

**Flex-X® 19**

Designed for single or multi-part hoist systems on cranes.

- Longer service life
- Lower operating costs
- Less wear to sheaves and drums



Exclusive Flex-X 19 is designed for use anywhere the rotation-resistant characteristics of a category 2 rotation-resistant rope are required. Six strands are laid around a core strand in one direction and then 12 strands are laid around this first operation in the opposite direction. Because of its tightly compacted smooth design, Flex-X 19 offers more crushing resistance than standard 19 x 7 rope, higher strength-to-diameter, resistance to bending fatigue, exceptional stability, reduced wear to sheaves and drums, and improved handling, operating, and spooling characteristics.

**FLEX-X VS STANDARD 6 X 26 WS**

Force

The increased surface area of Flex-X can be seen in the comparison of the contact points of a standard 6 x 26 WS (top) and Flex-X (bottom).

Drum scrubbing between the lead line and the previous wrap is reduced.

**Smooth contact creates less interference, less metal loss and wire deformation.**

**FLEX-X 19 is recommended for:**

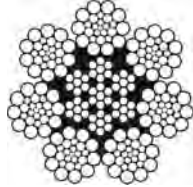
**CRAWLER AND TRUCK CRANES**  
Main hoist rope  
Auxiliary hoist rope

Flex-X® 19		
Approximate Weight Per Foot (lbs)	Minimum Breaking Force Tons (2,000 lbs)	Diameter (in.)
.43/	11.2	7/16
.49	14.6	1/2
.65	18.5	9/16
.78	22.7	5/8
1.16	32.4	3/4
1.58	43.8	7/8
2.05	56.9	1
2.57	71.5	1-1/8

Should not be used with a swivel.



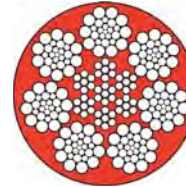
7-FLEX®



We offer 7-Flex ropes for many applications that currently use 6x19 or 6x36 classification ropes. Their operating characteristics are similar in many ways to 6x36 classification ropes. Typical applications such as container cranes, logging portal cranes and sawmill carriages have reported increased service life with the 7-Flex rope.

The 7-Flex construction offers improved resistance to bending fatigue compared to a 6x26 due to a combination of the outer wire size and the seventh strand.

7-FLEX PFV®




- Reduce wire-contact stress
- Keep lubrication inside
- Provide greater wear area
- Reduce internal abrasion

Combining the advantages of PFV, a high-grade thermoplastic material, extruded into a 7-Flex lubricated wire rope, provides additional advantages over non-PFV ropes.

On the inside, you'll find our 7-Flex wire rope that withstands the tough pressures of your demanding jobs while the PFV cushions the strands, distributes internal stresses, keeps in wire rope lubricant and keeps out dirt and debris. PFV also helps shed water and dirt, giving you a clean, smooth surface to make it easy to pass over sheaves and onto drums. This smooth surface works to clean and polish as it extends the service life of your sheaves and drums, while also reducing your cleanup requirements and your maintenance costs.


**7-FLEX is recommended for:**

**TOWER CRANES**  
Trolley rope  
Hoist rope



**7-FLEX PFV is recommended for:**

**RETRIEVAL CRANES**  
Main hoist rope



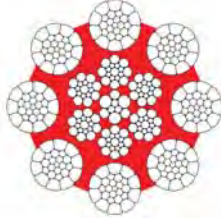
Minimum Breaking Force and Weights for 7-Flex Ropes

Diameter (in.)	7-FLEX Approx. Weight (lb/ft)	7-FLEX PFV Approx. Weight (lb/ft)	Minimum Breaking Force Tons (2,000 lbs) XIP® IWRC
3/8	.26	.27	7.55
7/16	.35	.37	10.2
1/2	.46	.49	13.3
9/16	.59	.61	16.8
5/8	.72	.76	20.6
3/4	1.04	1.09	29.4
7/8	1.42	1.49	39.8
1	1.85	1.94	51.7
1-1/8	2.34	2.46	65.0
1-1/4	2.89	3.03	79.9

Should not be used with a swivel.



### Casar Turboplast®

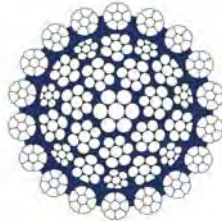


- High breaking load.
- Good resistance against crushing.
- Hoisting rope in multiple part reeving for smaller lifts.
- Twin hoist systems with left and right hand lay ropes for greater lifting heights.
- Should not be used with a swivel.

Diameter		Approx. Wt/Ft (lbs)	Minimum Breaking Force Tons (2,000 lbs)	
(in.)	(mm)		1770 N/mm	1960 N/mm
5/16	8	0.19	5.74	6.36
	9	0.25	7.42	8.21
	10	0.31	9.01	9.97
1/2	12	0.44	12.94	14.32
	14	0.60	17.75	19.65
	16	0.79	23.29	25.79
5/8	17	0.89	25.92	28.71

Note: Should not be used with a swivel.  
Note: Other sizes available.

### Casar Eurolift®



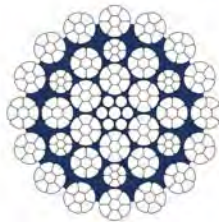
- Specially designed core reduces internal rope degradation.
- Hoist rope for mobile cranes and electric hoists.
- For use in other applications where rotation resistant ropes are required.

Diameter		Approx. Wt/Ft (lbs)	Minimum Breaking Force Tons (2,000 lbs)	
(in.)	(mm)		1960 N/mm	2160 N/mm
7/16	10	0.33	10.07	10.95
	11	0.40	12.23	13.31
1/2	12.7	0.53	16.46	18.14
	14	0.65	20.13	21.46
5/8	16	0.85	25.92	28.00
	18	1.08	33.04	35.69
3/4	19	1.20	36.98	39.66
	20	1.33	40.71	44.03

Note: Other sizes available.

### Casar Starlift Plus®

- Very flexible rope.
- Specially designed core reduces internal rope degradation.
- Hoist rope for mobile cranes and electric hoists.
- For use in other applications where rotation resistant ropes are required.



Diameter		Approx. Wt/Ft (lbs)	Minimum Breaking Force Tons (2,000 lbs)	
(in.)	(mm)		1960 N/mm	2160 N/mm
7/16	11	0.40	12.48	13.38
1/2	-	0.54	16.64	18.21
	14	0.65	20.12	21.92
5/8	15	0.75	23.16	25.29
	16	0.85	26.42	28.89
	18	1.08	33.50	36.53
3/4	19	1.20	36.98	40.35
	20	1.34	41.25	45.07

Note: Other sizes available.