

NORTHERN STRANDS

PFV® wire ropes.

PFV, the plastic-impregnated wire rope, has proven in many applications to give you longer service life and cleaner operation than conventional wire ropes.

On the inside, you'll find our top-of-the-line wire rope that effectively withstands the tough pressures of your



With one strand and part of the polymer plastic removed, you can see how deep the polymer penetrates into the rope, giving you uniform and continuous support for all strands throughout the length of the rope.

demanding jobs. On the outside, you'll see a specially engineered polymer plastic designed to overcome even harsher conditions. This polymer is applied at high pressure to force the material into the rope, filling the valleys of the strands.

PFV cushions the strands, distributes internal stresses, keeps in wire rope lubricant

and keeps out dirt and debris.

PFV doesn't melt or soften from the heat of your normal operating temperatures. It's also virtually unaffected by sunlight and cold weather. The result is longer service life from your wire rope.

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®

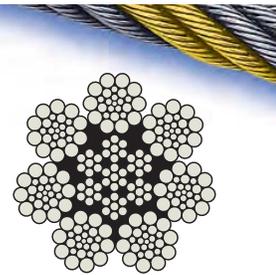
We offer 7-Flex ropes for many applications that currently use 6 x 19 or 6 x 36 classification ropes. Their operating characteristics are similar in many ways to 6 x 36 classification ropes. Typical applications such as

Minimum breaking force and weights for all 7-Flex ropes.

Diameter (in.)	Approximate wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.) XIP® IWRC
3/8	0.26	7.55
1/2	0.46	13.3
9/16	0.59	16.8
5/8	0.72	20.6
3/4	1.04	29.4
7/8	1.42	39.8
1	1.85	51.7
1 1/8	2.34	65.0
1 1/4	2.89	79.9

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 6 x 26 due to a combination of the outer wire size and the seventh strand. These products are also available in a PFV® option to further enhance service.



7-Flex

LoadStar™

Container crane hoist and trolley ropes are subjected to the stressful combination of bending fatigue and abrasion from operating over a series of intricate sheaves and drums. WRCA has developed LoadStar, a wire rope for container cranes that's so revolutionary it's guaranteed to provide you with a significant lift in service life when compared with standard ropes.

LoadStar will operate longer – no matter what load conditions you put it under. A combination of superior design and manufacturing technique helps reduce metal fatigue, internally and externally, while helping to extend the life of sheaves and drums.

In addition to container crane applications, LoadStar is now providing extended service life in carriage operations and other applications where multi-sheave equipment and rigorous duty cycles induce fatigue stresses. Almost any application currently using a 6x36 construction can gain an increase in service life with LoadStar.

Fatigue tests have shown that LoadStar will outperform competitors' premium 8-strand compacted, coated core ropes by 60% or more. These tests have also shown that LoadStar outlasts standard ropes by up to 88%.

Minimum breaking force and weights for LoadStar.

Diameter (in.)	Approximate wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.) IWRC
1/2	0.50	15.3
9/16	0.63	19.3
5/8	0.80	22.7
3/4	1.13	32.4
7/8	1.55	43.8
1	2.01	56.9
1 1/8	2.54	71.5
1 1/4	3.14	87.9
1 3/8	3.80	106

WIRE ROPE PRODUCTS