

Flattened strand ropes.

Also called triangular strand, flattened strand ropes perform exceptionally well on certain installations, especially those involving heavy loads where the speed of operation is slow, where adequate diameter sheaves and drums are used, or

Minimum breaking force and weights for flattened strand XIP ropes.

Diameter (in.)	FIBER CORE		IWRC		Diameter (in.)
	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)	
5/8	0.70	20.1	0.74	21.7	5/8
3/4	1.01	28.8	1.06	31.0	3/4
7/8	1.39	39.0	1.46	41.9	7/8
1	1.80	50.6	1.89	54.4	1
1 1/8	2.28	63.6	2.39	68.5	1 1/8
1 1/4	2.81	78.2	2.95	84	1 1/4
1 3/8	3.40	93.9	3.57	101	1 3/8
1 1/2	4.05	111	4.25	119	1 1/2
1 5/8	4.75	130	4.99	140	1 5/8
1 3/4	5.51	151	5.79	161	1 3/4

where a crush resistant rope is required. Typical installations include skip hoists, large overhead cranes, boom hoist ropes and mine shaft hoists.

Their distinguishing physical feature is their relatively flat exposed surfaces of strands. As a result, the rope exterior is more nearly a smooth, continuous circle than that of regular round strand wire rope. Flattened strand ropes are made with two layers of 12 wires around

a triangular-shaped center.

We offer a 6 x 30 Style G using a six-wire center as the standard construction.

The advantages of flattened strand ropes.

The flattened shape forms a bearing surface with more contact points on each strand than a round strand rope. With more sheave contact, weight and wear on the rope are distributed more uniformly than

on a typical round strand rope. The triangular strand structure also results in more steel in the cross-section than a standard round strand rope of equal size.

6 x 7 classification sandlines.

In a 6 x 7 rope, the wires are larger than those of other constructions of the same diameter. Wires of a 6 x 7 are approximately twice the diameter of outer wires of a 6 x 25 FW rope. The large size of the outer wires gives this class excellent abrasion resistance – at great sacrifice of bendability and resistance to fatigue. The standard 6 x 7 rope construction is made with fiber core and right regular lay.

Minimum breaking force and weights for 6 x 7 IPS fiber core.

Diameter (in.)	BRIGHT		GALVANIZED		Diameter (in.)
	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)	Approx. wt./ft. (lbs.)	Minimum breaking force (tons of 2,000 lbs.)	
3/16	0.056	1.50			3/16
1/4	0.094	2.64	0.094	2.38	1/4
5/16	0.15	4.10	0.15	3.69	5/16
3/8	0.21	5.86	0.21	5.27	3/8
7/16	0.29	7.93	0.29	7.14	7/16
1/2	0.38	10.3	0.38	9.27	1/2
9/16	0.48	13.0	0.48	11.7	9/16
5/8	0.59	15.9	0.59	14.3	5/8
3/4	0.84	22.7	0.84	20.4	3/4