

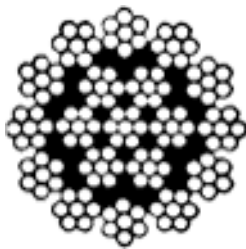


In an application where a single-part hoist rope is used to lift a free load – or where rotation-resistant properties are essential for rope performance – the 19x7 can be used. Its rotation-resistant characteristic is achieved by laying six strands around a core strand in one direction, then laying 12 strands around the first operation in the opposite direction. When the rope is in tension, opposing rotational forces are created between the inner and outer layers.

Frequent and regular inspection for broken wires is critical when using rotation resistant rope.

## Category 2, rotation resistant rope

### 19x7 Strength and Weights Chart (inches)



Diameter (in)	Weight (lb/ft)	Minimum Breaking Force (tons of 2000 lbs)
3/16	0.064	1.57
1/4	0.113	2.77
5/16	0.177	4.3
3/8	0.25	6.15
7/16	0.35	8.33
1/2	0.45	10.8
9/16	0.58	13.6
5/8	0.71	16.8
3/4	1.02	24
7/8	1.39	32.5
1	1.82	42.2
1 1/8	2.30	53.1
1 1/4	2.83	65.1
1 3/8	3.43	78.4
1 1/2	4.08	92.8
<b>Should not be used with a swivel.</b>		

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