

Table No. 2.

BLACK-STEEL-WIRE ROPES.—BREAKING-LOADS.

(Quality: Special Improved Patent Steel. Tensile strength of wires, 90-100 tons per square inch.)

Size of Rope.		Construction: Six Strands of 19 Wires each.	Construction: Six Strands of 24 Wires each.	Construction: Six Strands of 37 Wires each.
Circumference, in Inches.	Diameter, in Inches (approximate).	Actual Breaking-load, in Tons.	Actual Breaking-load, in Tons.	Actual Breaking-load, in Tons.
1 $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$	$\frac{5}{16}$	3.0	2.7	2.9
	$\frac{13}{32}$	4.7	4.5	4.3
	$\frac{15}{32}$	6.7	6.3	6.4
	$\frac{9}{16}$	9.1	8.4	9.0
2 $\frac{1}{2}$ $\frac{3}{4}$	$\frac{5}{8}$	12.4	11.5	11.9
	$\frac{23}{32}$	15.6	14.3	15.3
	$\frac{13}{16}$	19.1	17.4	18.1
	$\frac{7}{8}$	22.9	21.6	22.3
3 $\frac{3}{4}$ $1\frac{1}{4}$ $1\frac{3}{4}$	$\frac{15}{16}$	28.9	25.4	26.9
	$1\frac{1}{32}$	33.6	30.5	30.6
	$1\frac{1}{8}$	39.6	35.0	36.0
	$1\frac{3}{16}$	45.1	39.7	41.7
4 $1\frac{1}{4}$ $1\frac{3}{4}$ $2\frac{1}{4}$	$1\frac{9}{32}$	50.9	46.0	47.8
	$1\frac{11}{32}$	57.1	51.4	54.4
	$1\frac{7}{16}$	65.0	57.2	59.6
	$1\frac{1}{2}$	71.9	64.7	67.0
5 $1\frac{3}{4}$ $2\frac{1}{4}$ $2\frac{3}{4}$	$1\frac{19}{32}$	79.2	71.1	74.7
	$1\frac{11}{16}$	88.5	77.9	83.0
	$1\frac{3}{4}$	96.5	84.9	89.3
	$1\frac{27}{32}$	104.9	94.0	98.3
6 $2\frac{1}{4}$	$1\frac{29}{32}$	115.5	101.7	107.6