

Table No. 9.—Black-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON TWO PARTS (DIAGRAM NO. 10).

(Ropes are to be equal to the breaking-loads specified in Appendix II.)

Size of Rope.		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.	
Circumference, in Inches.	Diameter, in Inches (approx.).	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.
1	5/16	T. cwt. qr. lb.	2,240	T. cwt. qr. lb.	2,016	T. cwt. qr. lb.	2,165
1 1/8	3/8	1 0 0 0	2,762	0 18 0 0	2,762	0 19 1 9	2,837
1 1/4	13/32	1 4 2 18	3,509	1 4 2 18	3,360	1 5 1 9	3,210
1 3/8	7/16	1 11 1 9	4,106	1 10 0 0	4,032	1 8 2 18	3,957
1 1/2	15/32	2 4 2 18	5,002	2 2 0 0	4,704	2 2 2 18	4,778
1 5/8	1/2	2 14 0 0	6,048	2 8 2 18	5,450	2 11 1 9	5,749
1 3/4	9/16	3 0 2 18	6,794	2 16 0 0	6,272	3 0 0 0	6,720
1 7/8	19/32	3 11 1 9	7,989	3 8 0 0	7,616	3 9 1 9	7,765
2	5/8	4 2 2 18	9,258	3 16 2 18	8,586	3 19 1 9	8,885
2 1/8	11/16	4 10 2 18	10,154	4 5 1 9	9,557	4 10 2 18	10,154
2 1/4	23/32	5 4 0 0	11,648	4 15 1 9	10,677	5 2 0 0	11,424
2 3/8	3/4	5 17 1 9	13,141	5 5 1 9	11,797	5 8 0 0	12,096
2 1/2	13/16	6 7 1 9	14,261	5 16 0 0	12,992	6 0 2 18	13,514
2 5/8	27/32	6 16 2 18	15,306	6 12 0 0	14,784	6 14 2 18	15,082
2 3/4	7/8	7 12 2 18	17,098	7 4 0 0	16,128	7 8 2 18	16,650
2 7/8	29/32	8 9 1 9	18,965	7 16 0 0	17,472	8 4 0 0	18,368
3	15/16	9 12 2 18	21,578	8 9 1 9	18,965	8 19 1 9	20,085

Table No. 10.—Black-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON THREE PARTS (DIAGRAM NO. 11).

(Ropes are to be equal to the breaking-loads specified in Appendix II.)

Size of Rope.		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.	
Circumference, in Inches.	Diameter, in Inches (approx.).	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.	Working-load, in Tons, &c.	Working-load, in Pounds.
1	5/16	T. cwt. qr. lb.	3,360	T. cwt. qr. lb.	3,024	T. cwt. qr. lb.	3,248
1 1/8	3/8	1 10 0 0	4,144	1 7 0 0	4,144	1 9 0 0	4,256
1 1/4	13/32	1 17 0 0	5,264	1 17 0 0	5,040	1 18 0 0	4,816
1 3/8	7/16	2 7 0 0	6,160	2 5 0 0	6,048	2 3 0 0	5,936
1 1/2	15/32	2 15 0 0	7,504	2 14 0 0	7,056	2 13 0 0	7,168
1 5/8	1/2	3 7 0 0	9,072	3 3 0 0	8,176	3 4 0 0	8,624
1 3/4	9/16	4 1 0 0	10,192	3 13 0 0	9,408	3 17 0 0	10,080
1 7/8	19/32	4 11 0 0	11,984	4 4 0 0	11,424	4 10 0 0	11,648
2	5/8	5 7 0 0	13,888	5 2 0 0	12,880	5 4 0 0	13,328
2 1/8	11/16	6 4 0 0	15,232	5 15 0 0	14,336	5 19 0 0	15,232
2 1/4	23/32	6 16 0 0	17,472	6 8 0 0	16,016	6 16 0 0	17,136
2 3/8	3/4	7 16 0 0	19,712	7 3 0 0	17,696	7 13 0 0	18,144
2 1/2	13/16	8 16 0 0	21,392	7 18 0 0	19,488	8 2 0 0	20,272
2 5/8	27/32	9 11 0 0	22,960	8 14 0 0	22,176	9 1 0 0	22,624
2 3/4	7/8	10 5 0 0	25,648	9 18 0 0	24,192	10 2 0 0	24,976
2 7/8	29/32	11 9 0 0	28,448	10 16 0 0	26,208	11 3 0 0	27,552
3	15/16	12 14 0 0	32,368	11 14 0 0	28,448	12 6 0 0	30,128