

Table No. 11.—Black-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON FOUR PARTS (DIAGRAM NO. 12).

(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.	4,480	T. cwt. qr. lb.	4,032	T. cwt. qr. lb.	4,330
1 1/8	3/8	2 0 0 0	5,524	1 16 0 0	5,524	1 18 2 18	5,674
1 1/4	13/32	2 9 1 8	7,018	2 9 1 8	6,720	2 10 2 18	6,420
1 1/2	7/16	3 2 2 18	8,212	3 0 0 0	8,064	2 17 1 8	7,914
1 5/8	15/32	3 13 1 8	10,004	3 12 0 0	9,408	3 10 2 18	9,556
1 3/4	1/2	4 9 1 8	12,096	4 4 0 0	10,900	4 5 1 8	11,498
2	9/16	5 8 0 0	13,588	4 17 1 8	12,544	5 2 2 18	13,440
2 1/8	19/32	6 1 1 8	15,978	5 12 0 0	15,232	6 0 0 0	15,530
2 1/4	5/8	7 2 2 18	18,516	6 16 0 0	17,172	6 18 2 18	17,770
2 1/2	11/16	8 5 1 8	20,308	7 13 1 8	19,114	7 18 2 18	20,308
2 3/4	23/32	9 1 1 8	23,296	8 10 2 18	21,354	9 1 1 8	22,848
2 7/8	3/4	10 8 0 0	26,282	9 10 2 18	23,594	10 4 0 0	24,192
2 15/16	13/16	11 14 2 18	28,522	10 10 2 18	25,984	10 16 0 0	27,028
2 1/2	27/32	12 14 2 18	30,612	11 12 0 0	29,568	12 1 1 8	30,164
2 5/8	7/8	13 13 1 8	34,196	13 4 0 0	32,256	13 9 1 8	33,300
2 3/4	29/32	15 5 1 8	37,930	14 8 0 0	34,944	14 17 1 8	36,736
2 7/8	15/16	16 18 2 18	43,156	15 12 0 0	37,930	16 8 0 0	40,170
3		19 5 1 8		16 18 2 18		17 18 2 18	

Table No. 12.—Black-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON FIVE PARTS (DIAGRAM NO. 13).

(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.	5,600	T. cwt. qr. lb.	5,040	T. cwt. qr. lb.	5,413
1 1/8	3/8	2 10 0 0	6,906	2 5 0 0	6,906	2 8 1 9	7,093
1 1/4	13/32	3 1 2 18	8,773	3 1 2 18	8,400	3 3 1 9	8,026
1 1/2	7/16	3 18 1 9	10,266	3 15 0 0	10,080	3 11 2 18	9,893
1 5/8	15/32	4 11 2 18	12,506	4 10 0 0	11,760	4 8 1 9	11,946
1 3/4	1/2	5 11 2 18	15,120	5 5 0 0	13,626	5 6 2 18	14,373
2	9/16	6 15 0 0	16,986	6 1 2 18	15,680	6 8 1 9	16,800
2 1/8	19/32	7 11 2 18	19,973	7 0 0 0	19,040	7 10 0 0	19,413
2 1/4	5/8	8 18 1 9	23,146	8 10 0 0	21,466	8 13 1 9	22,213
2 1/2	11/16	10 6 2 18	25,386	9 11 2 18	23,893	9 18 1 9	25,386
2 3/4	23/32	11 6 2 18	29,120	10 13 1 9	26,693	11 6 2 18	28,560
2 7/8	3/4	13 0 0 0	32,853	11 18 1 9	29,493	12 15 0 0	30,240
2 15/16	13/16	14 13 1 9	35,653	13 3 1 9	32,480	13 10 0 0	33,786
2 1/2	27/32	15 18 1 9	38,266	14 10 0 0	36,960	15 1 2 18	37,706
2 5/8	7/8	17 1 2 18	42,746	16 10 0 0	40,320	16 16 2 18	41,626
2 3/4	29/32	19 1 2 18	47,413	18 0 0 0	43,680	18 11 2 18	45,920
2 7/8	15/16	21 3 1 9	53,946	19 10 0 0	47,413	20 10 0 0	50,213
3		24 1 2 18		21 3 1 9		22 8 1 9	