

Table No. 13.—Black-wire-rope Purchases.

TABLE OF SAFE-WORKING LOADS FOR A PURCHASE CARRYING THE LOAD ON SIX PARTS (DIAGRAM NO. 14).

(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.	6,720	T. cwt. qr. lb.	6,048	T. cwt. qr. lb.	6,496
		3 0 0 0		2 14 0 0		2 18 0 0	
1 1/8	3/8	3 14 0 0	8,288	3 14 0 0	8,288	3 16 0 0	8,512
1 1/4	13/32	4 14 0 0	10,528	4 10 0 0	10,080	4 6 0 0	9,632
1 3/8	7/16	5 10 0 0	12,320	5 8 0 0	12,096	5 6 0 0	11,872
1 1/2	15/32	6 14 0 0	15,008	6 6 0 0	14,112	6 8 0 0	14,336
1 5/8	1/2	8 2 0 0	18,144	7 6 0 0	16,352	7 14 0 0	17,248
1 3/4	9/16	9 2 0 0	20,384	8 8 0 0	18,816	9 0 0 0	20,160
1 7/8	19/32	10 14 0 0	23,968	10 4 0 0	22,848	10 8 0 0	23,296
2	5/8	12 8 0 0	27,776	11 10 0 0	25,760	11 18 0 0	26,656
2 1/8	11/16	13 12 0 0	30,464	12 16 0 0	28,672	13 12 0 0	30,464
2 1/4	23/32	15 12 0 0	34,944	14 6 0 0	32,032	15 6 0 0	34,272
2 3/8	3/4	17 12 0 0	39,424	15 16 0 0	35,392	16 4 0 0	36,288
2 1/2	13/16	19 2 0 0	42,784	17 8 0 0	38,976	18 2 0 0	40,544
2 5/8	27/32	20 10 0 0	45,920	19 16 0 0	44,352	20 4 0 0	45,248
2 3/4	7/8	22 18 0 0	51,296	21 12 0 0	48,334	22 6 0 0	49,952
2 7/8	29/32	25 8 0 0	56,896	23 8 0 0	52,416	24 12 0 0	55,104
3	15/16	28 18 0 0	64,736	25 8 0 0	56,896	26 18 0 0	60,256

Table No. 14.—Galvanized-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 III.)

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.	2,165	T. cwt. qr. lb.	1,941	T. cwt. qr. lb.	2,240
		0 19 1 9		0 17 1 9		1 0 0 0	
1 1/8	3/8	1 13 1 9	2,613	1 3 1 9	2,613	1 4 2 18	2,762
1 1/4	13/32	1 10 0 0	3,360	1 8 2 18	3,210	1 6 2 18	2,986
1 3/8	7/16	1 14 2 18	3,882	1 14 0 0	3,808	1 13 1 9	3,733
1 1/2	15/32	2 2 2 18	4,778	2 0 0 0	4,480	2 2 0 0	4,704
1 5/8	1/2	2 11 1 9	5,749	2 6 0 0	5,152	2 8 0 0	5,376
1 3/4	9/16	2 17 1 9	6,421	2 16 2 18	6,346	2 16 2 18	6,346
1 7/8	19/32	3 7 1 9	7,541	3 4 2 18	7,242	3 5 1 9	7,317
2	5/8	3 18 0 0	8,736	3 12 2 18	8,138	3 15 1 9	8,437
2 1/8	11/16	4 6 0 0	9,632	4 1 1 9	9,109	4 6 0 0	9,632
2 1/4	23/32	5 2 2 18	11,498	4 14 2 18	10,602	4 16 2 18	10,826
2 3/8	3/4	5 11 1 9	12,469	5 4 2 18	11,722	5 8 2 18	12,170
2 1/2	13/16	6 0 0 0	13,440	5 14 2 18	12,842	5 18 0 0	13,216
2 5/8	27/32	6 9 1 9	14,485	6 5 1 9	14,037	6 14 0 0	15,008
2 3/4	7/8	7 4 2 18	16,202	6 16 2 18	15,306	7 8 0 0	16,576
2 7/8	29/32	8 0 0 0	17,920	7 8 0 0	16,576	8 0 0 0	17,920
3	15/16	8 10 2 18	19,114	8 6 2 18	18,666	8 17 1 9	19,861