

Table No. 15.—Galvanized-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 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.		T. cwt. qr. lb.		T. cwt. qr. lb.	
1 1/8	3/8	1 9 0 0	3,248	1 6 0 0	2,912	1 10 0 0	3,360
1 1/4	7/16	1 15 0 0	3,920	1 15 0 0	3,920	1 17 0 0	4,144
1 1/2	13/32	2 5 0 0	5,040	2 3 0 0	4,816	2 0 0 0	4,480
1 3/4	7/16	2 12 0 0	5,824	2 11 0 0	5,712	2 10 0 0	5,600
1 7/8	15/32	3 4 0 0	7,168	3 0 0 0	6,720	3 3 0 0	7,056
1 5/8	1/2	3 17 0 0	8,624	3 9 0 0	7,728	3 12 0 0	8,064
1 3/4	9/16	4 6 0 0	9,632	4 5 0 0	9,520	4 5 0 0	9,520
1 7/8	19/32	5 1 0 0	11,312	4 17 0 0	10,864	4 18 0 0	10,976
2	5/8	5 17 0 0	13,104	5 9 0 0	12,208	5 13 0 0	12,656
2 1/8	11/16	6 9 0 0	14,448	6 2 0 0	13,664	6 9 0 0	14,448
2 1/4	23/32	7 14 0 0	17,248	7 2 0 0	15,904	7 5 0 0	16,240
2 3/8	3/4	8 7 0 0	18,704	7 17 0 0	17,584	8 3 0 0	18,256
2 1/2	13/16	9 0 0 0	20,160	8 12 0 0	19,264	8 17 0 0	19,824
2 5/8	27/32	9 14 0 0	21,728	9 8 0 0	21,056	10 1 0 0	22,512
2 3/4	7/8	10 17 0 0	24,304	10 5 0 0	22,960	11 2 0 0	24,864
2 7/8	29/32	12 0 0 0	26,880	11 2 0 0	24,864	12 0 0 0	26,880
3	15/16	12 16 0 0	28,672	12 10 0 0	28,000	13 6 0 0	29,792

Table No. 16.—Galvanized-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 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.		T. cwt. qr. lb.		T. cwt. qr. lb.	
1 1/8	3/8	1 18 2 18	4,330	1 14 2 18	3,882	2 0 0 0	4,480
1 1/4	7/16	2 6 2 18	5,226	2 6 2 18	5,226	2 9 1 9	5,525
1 1/2	13/32	3 0 0 0	6,720	2 17 1 9	6,421	2 13 1 9	5,973
1 3/4	7/16	3 9 1 9	7,765	3 8 0 0	7,616	3 6 2 18	7,466
1 7/8	15/32	4 5 1 9	9,557	4 0 0 0	8,960	4 4 0 0	9,408
1 5/8	1/2	5 2 2 18	11,498	4 12 0 0	10,304	4 16 0 0	10,752
1 3/4	9/16	5 14 2 18	12,842	5 13 1 9	12,693	5 13 1 9	12,693
1 7/8	19/32	6 14 2 18	15,082	6 9 1 9	14,485	6 10 2 18	14,634
2	5/8	7 16 0 0	17,472	7 5 1 9	16,277	7 10 2 18	16,874
2 1/8	11/16	8 12 0 0	19,264	8 2 2 18	18,218	8 12 0 0	19,264
2 1/4	23/32	10 5 1 9	22,997	9 9 1 9	21,205	9 13 1 9	21,653
2 3/8	3/4	11 2 2 18	24,938	10 9 1 9	23,445	10 17 1 9	24,341
2 1/2	13/16	12 0 0 0	26,880	11 9 1 9	25,685	11 16 0 0	26,432
2 5/8	27/32	12 18 2 18	28,970	12 10 2 18	28,074	13 8 0 0	30,016
2 3/4	7/8	14 9 1 9	32,405	13 13 1 9	30,613	14 16 0 0	33,152
2 7/8	29/32	16 0 0 0	35,840	14 16 0 0	33,152	16 0 0 0	35,840
3	15/16	17 1 1 9	38,229	16 13 1 9	37,333	17 14 2 18	39,722