

Table No. 20.—Galvanized-steel-wire Ropes.

TABLE OF BREAKING-LOADS AND CORRESPONDING SAFE-WORKING LOADS FOR GALVANIZED-STEEL-WIRE ROPES OF HAWSER BASIC QUALITY, USED FOR SINGLE WHIPS, SINGLE STROPS, OR LONG-EYED SNOTTERS, AND FOR OTHER SIMILAR CASES WHERE THE LOAD IS CARRIED ON A SINGLE PART.

(Tensile strength of wires, 85-95 tons per square inch.)

Size of Rope.		Flexible.			Special Flexible.			Special Flexible.		
		Construction.—Six Strands of 12 Wires each.			Construction.—Six Strands of 24 Wires each.			Construction.—Six Strands of 30 Wires each.		
Circumference, in Inches.	Diameter, in Inches (approx.).	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.	Actual Breaking-load, in Tons.	Working-load, in Tons, &c.	Working-load, in Pounds.
1 1/4	5/16	2.0	T. cwt. qr. lb. 0 5 2 24	640	2.6	T. cwt. qr. lb. 0 7 1 20	832	2.6	T. cwt. qr. lb. 0 7 1 20	832
	13/32	3.1	0 8 3 12	992	4.4	0 12 2 8	1,408	3.6	0 10 1 4	1,152
	15/32	4.8	0 13 2 24	1,536	6.1	0 17 1 20	1,952	5.4	0 15 1 18	1,726
	8/16	6.4	0 18 1 4	2,048	8.7	1 4 3 11	2,783	7.5	1 1 1 20	2,400
2 1/2	5/8	8.3	1 3 2 24	2,656	11.2	1 12 0 0	3,584	10.0	1 8 2 8	3,200
	23/32	10.8	1 10 3 12	3,456	14.7	2 2 0 0	4,704	12.8	1 16 2 8	4,096
	13/16	13.2	1 17 2 24	4,224	17.7	2 10 2 8	5,664	15.2	2 3 1 20	4,864
	7/8	15.2	2 3 1 20	4,864	21.1	3 0 1 4	6,752	19.6	2 16 0 0	6,272
3 3/4	15/16	18.6	2 13 0 16	5,952	25.7	3 13 1 20	8,224	23.5	3 7 0 16	7,520
	11/32	21.7	3 2 0 0	6,944	29.7	4 4 3 12	9,504	25.6	3 13 0 16	8,192
	11/8	25.7	3 13 1 20	8,224	35.2	5 0 2 8	11,264	30.1	4 6 0 0	9,632
	13/16	29.3	4 3 2 24	9,376	39.9	5 14 0 0	12,768	34.9	4 19 2 24	11,168
4 1	19/32	33.2	4 14 3 12	10,624	44.9	6 8 1 4	14,368	40.1	5 14 2 8	12,832
	11/32	36.4	5 4 0 0	11,648	51.5	7 7 0 16	16,480	45.6	6 10 1 4	14,592
	17/16	43.3	6 3 2 24	13,856	58.6	8 7 1 19	18,751	51.4	7 6 3 12	16,448
	1 1/2	47.0	6 14 1 4	15,040	64.6	9 4 2 8	20,672	57.6	8 4 2 8	18,432
5 1 1/4	110/32	52.8	7 10 3 12	16,896	70.9	10 2 2 7	22,687	64.2	9 3 1 20	20,544
	111/16	..	..	..	77.5	11 1 1 19	24,799	71.2	10 3 1 20	22,784
	13/4	..	..	..	84.4	12 1 0 16	27,008	76.6	10 18 3 12	24,512
	127/32	..	..	..	91.5	13 1 1 20	29,280	82.3	11 15 0 16	26,336
6 1 1/2	129/32	..	..	..	99.1	14 3 0 16	31,712	92.1	13 3 0 16	29,472
	2	..	..	..	104.5	14 18 2 8	33,440	98.3	14 0 3 12	31,456
	23/32	..	..	..	112.3	16 0 3 12	35,936	104.7	14 19 0 16	33,504
	25/32	..	..	..	120.3	17 3 2 24	38,496	111.2	15 17 2 24	35,584
7 1 3/4	27/32	..	..	..	130.7	18 13 1 20	41,824	120.0	17 2 3 12	38,400
	23/8	..	..	..	..	..	..	131.8	18 16 2 8	42,176
8 2	217/32	..	..	..	..	..	..	148.8	21 5 0 16	47,616