


Table No. 7.—Black-wire-rope Slings.

TABLE OF SAFE-WORKING LOADS FOR BLACK-WIRE-ROPE SLINGS ON WHICH THE LOAD IS CARRIED ON TWO PARTS OR LEGS OF THE SLING, AND MADE OF ROPE HAVING THE BREAKING-LOAD SPECIFIED IN APPENDIX II.

Size of Rope.		Safe-working Loads for various Distances between Legs.											
		Legs Parallel.						 B = L.					
		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.		Strands and Wires 6/19.		Strands and Wires 6/24.		Strands and Wires 6/37.	
Circumference, in Inches.	Diameter, in Inches (approximate).	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.	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	$\frac{5}{16}$	T. cwt. qr. lb.		T. cwt. qr. lb.		T. cwt. qr. lb.		T. cwt. qr. lb.		T. cwt. qr. lb.		T. cwt. qr. lb.	
$1\frac{1}{8}$	$\frac{3}{8}$	0 17 0 16	1,920	0 15 1 20	1,728	0 16 2 8	1,856	0 14 3 10	1,662	0 13 1 12	1,496	0 14 1 11	1,607
$1\frac{1}{4}$	$\frac{7}{16}$	1 1 0 16	2,368	1 1 0 16	2,368	1 1 2 24	2,432	0 18 1 6	2,050	0 18 1 6	2,050	0 18 3 6	2,106
$1\frac{3}{8}$	$\frac{1}{2}$	1 6 3 12	3,008	1 5 2 24	2,880	1 4 2 8	2,752	1 3 1 1	2,605	1 2 1 2	2,494	1 1 1 3	2,383
$1\frac{1}{2}$	$\frac{9}{16}$	1 11 1 20	3,520	1 10 3 12	3,456	1 10 1 4	3,392	1 7 0 24	3,048	1 6 2 24	2,992	1 6 0 25	2,937
$1\frac{3}{4}$	$\frac{5}{8}$	1 18 1 4	4,288	1 16 0 0	4,032	1 16 2 8	4,096	1 13 0 17	3,713	1 11 0 19	3,491	1 11 2 19	3,547
$1\frac{7}{8}$	$\frac{3}{4}$	2 6 1 4	5,184	2 1 2 24	4,672	2 4 0 0	4,928	2 0 0 9	4,489	1 16 0 14	4,046	1 18 0 11	4,267
2	$\frac{7}{8}$	2 12 0 0	5,824	2 8 0 0	5,376	2 11 1 20	5,760	2 5 0 3	5,043	2 1 2 7	4,655	2 4 2 4	4,988
$2\frac{1}{8}$	$\frac{15}{16}$	3 1 0 16	6,848	2 18 1 4	6,528	2 19 1 20	6,656	2 12 3 22	5,930	2 10 1 25	5,653	2 11 1 24	5,764
$2\frac{1}{4}$	$\frac{1}{2}$	3 10 3 12	7,936	3 5 2 24	7,360	3 8 0 0	7,616	3 1 1 12	6,872	2 16 3 17	6,373	2 18 3 15	6,595
$2\frac{3}{8}$	$\frac{11}{16}$	3 17 2 24	8,704	3 13 0 16	8,192	3 17 2 24	8,704	3 7 1 5	7,537	3 3 1 10	7,094	3 7 1 5	7,537
$2\frac{1}{2}$	$\frac{3}{4}$	4 9 0 16	9,984	4 1 2 24	9,152	4 7 1 20	9,792	3 17 0 22	8,646	3 10 3 1	7,925	3 15 2 24	8,480
$2\frac{7}{8}$	$\frac{13}{16}$	5 0 2 8	11,264	4 10 1 4	10,112	4 12 2 8	10,368	4 7 0 10	9,754	3 18 0 21	8,757	4 0 0 18	8,978
3	$\frac{7}{8}$	5 9 0 16	12,224	4 19 1 20	11,136	5 3 1 20	11,584	4 14 2 2	10,586	4 6 0 12	9,644	4 9 2 8	10,032
$3\frac{1}{8}$	$\frac{15}{16}$	5 17 0 16	13,120	5 13 0 16	12,672	5 15 1 20	12,928	5 1 1 22	11,362	4 17 3 26	10,974	4 19 3 23	11,195
$3\frac{1}{4}$	$\frac{1}{2}$	6 10 3 12	14,656	6 3 1 20	13,824	6 7 1 20	14,272	5 13 1 8	12,692	5 6 3 15	11,971	5 10 1 11	12,359
$3\frac{3}{8}$	$\frac{9}{16}$	7 5 0 16	16,256	6 13 2 24	14,976	7 0 2 8	15,744	6 5 2 22	14,078	5 15 3 5	12,969	6 1 2 26	13,634
$3\frac{1}{2}$	$\frac{5}{8}$	8 5 0 16	18,496	7 5 0 16	16,256	7 13 2 24	17,216	7 3 0 2	16,018	6 5 2 22	14,078	6 13 0 13	14,909
$3\frac{7}{8}$	$\frac{3}{4}$	8 15 1 20	19,648	7 16 2 8	17,536	8 8 0 0	18,816	7 11 3 19	17,015	6 15 2 10	15,186	7 5 1 27	16,295
4	$\frac{7}{8}$	9 12 0 0	21,504	8 14 1 4	19,520	8 14 3 12	19,584	8 6 1 3	18,623	7 10 3 20	16,904	7 11 1 20	16,960
$4\frac{1}{8}$	$\frac{15}{16}$	10 9 0 16	23,424	9 6 3 12	20,928	9 9 2 24	21,248	9 1 0 13	20,285	8 1 3 8	18,124	8 4 1 5	18,401
$4\frac{1}{4}$	$\frac{1}{2}$	11 6 1 4	25,344	10 0 0 0	22,400	10 5 2 24	23,040	9 15 3 24	21,948	8 13 0 22	19,398	8 18 0 17	19,953
$4\frac{3}{8}$	$\frac{9}{16}$	11 18 3 12	26,752	10 13 0 16	23,872	11 1 2 24	24,832	10 6 3 11	23,167	9 4 2 9	20,673	9 12 0 1	21,505
$4\frac{1}{2}$	$\frac{5}{8}$	12 17 2 24	28,864	11 6 3 12	25,408	11 18 1 4	26,688	11 3 0 20	24,996	9 16 1 23	22,003	10 6 1 12	23,112
$4\frac{7}{8}$	$\frac{3}{4}$	13 17 2 24	31,104	12 1 0 16	27,008	12 15 1 20	28,608	12 0 2 0	26,936	10 8 3 9	23,389	11 1 0 23	24,775
5	$\frac{7}{8}$	14 10 3 12	32,576	13 2 3 12	29,440	13 13 0 16	30,592	12 11 3 15	28,211	11 7 2 15	25,495	11 16 2 5	26,493
$5\frac{1}{8}$	$\frac{15}{16}$	15 12 0 0	34,944	13 18 1 4	31,168	14 12 0 0	32,704	13 10 0 22	30,262	12 1 0 0	28,992	12 12 3 14	28,322
$5\frac{1}{4}$	$\frac{1}{2}$	16 6 1 4	36,544	14 13 2 24	32,896	15 10 3 12	34,816	14 2 2 8	31,648	12 14 1 12	28,488	13 9 0 23	30,151
$5\frac{3}{8}$	$\frac{9}{16}$	17 8 2 8	39,040	15 10 1 4	34,752	16 1 0 16	35,968	15 1 3 13	33,809	13 8 2 24	30,096	13 18 0 13	31,149
$5\frac{1}{2}$	$\frac{5}{8}$	18 11 1 20	41,600	16 6 3 12	36,608	17 0 2 8	38,144	16 1 2 18	36,026	14 3 0 7	31,703	14 14 3 21	33,033
$5\frac{7}{8}$	$\frac{3}{4}$	19 6 3 12	43,328	17 4 0 0	38,528	18 1 2 24	40,512	16 15 0 3	37,523	14 17 3 18	33,366	15 13 1 0	35,084
6	$\frac{7}{8}$	20 10 3 12	46,016	18 9 2 24	41,408	19 2 3 12	42,880	17 15 3 7	39,851	16 0 0 20	35,860	16 11 2 7	37,135
$6\frac{1}{8}$	$\frac{15}{16}$	21 7 1 20	47,872	19 8 0 0	43,456	20 4 2 8	45,312	18 10 0 18	41,458	16 16 0 2	37,634	17 10 1 13	39,241
$6\frac{1}{4}$	$\frac{1}{2}$	22 12 2 8	50,688	20 6 1 4	45,504	21 6 3 12	47,808	19 11 3 21	43,897	17 11 3 11	39,407	18 9 2 18	41,402
$6\frac{3}{8}$	$\frac{9}{16}$	23 18 1 4	53,568	21 5 2 24	47,680	22 10 1 4	50,432	20 14 0 23	46,391	18 8 2 20	41,292	19 9 3 23	43,675
$6\frac{1}{2}$	$\frac{5}{8}$	25 5 2 24	56,640	22 5 0 16	49,856	23 14 1 4	53,120	21 17 3 23	49,051	19 5 2 0	43,176	20 10 2 27	46,003
$6\frac{7}{8}$	$\frac{3}{4}$	27 11 1 20	61,760	24 5 0 16	54,236	25 10 1 4	57,152	23 17 2 5	53,485	21 0 0 16	47,056	22 1 3 19	49,495
7	$\frac{7}{8}$	29 19 1 20	67,136	26 17 0 16	60,160	28 1 2 24	62,912	25 19 0 13	58,141	23 5 0 20	52,100	24 6 1 23	54,483
$7\frac{1}{8}$	$\frac{15}{16}$	33 0 0 0	73,920	29 1 0 16	65,088	30 14 3 12	68,864	28 11 2 8	64,016	25 3 1 3	56,367	26 12 1 26	59,638