


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.																	
		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.							
		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	5/16	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 1/8	3/8	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 1/4	13/32	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 1/2	7/16	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 3/4	15/32	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
2	1/2	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 1/8	9/16	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 1/4	19/32	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 3/8	5/8	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 1/2	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 5/8	23/32	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
3	3/4	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 1/8	13/16	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 1/4	7/8	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 3/8	15/16	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 1/2	1	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 5/8	1 1/8	8 5	0 16	18,496	7 5	0 16	16,256	7 13	2 24	17,216	7 3	3 2	16,018	6 5	2 22	14,078	6 13	0 13	14,909
4	1 1/4	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 1/8	1 1/2	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 1/4	1 3/8	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 3/8	1 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 5/8	1 5/8	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 3/4	1 3/4	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
5	1 7/8	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	23,398	11 1	0 23	24,775
5 1/8	1 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 1/4	1 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	26,992	12 12	3 14	28,322
5 3/8	1 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 1/2	1 1/2	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 5/8	1 11/16	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 3/4	1 1/2	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
5 7/8	1 1/2	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	1 1/2	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 1/8	1 15/16	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 1/4	1 1/2	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 3/8	1 11/16	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 1/2	1 3/4	27 11	1 20	61,760	24 5	0 16	54,336	25 10	1 4	57,152	23 17	2 5	53,485	21 0	0 16	47,056	22 1	3 19	49,495
6 5/8	1 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
6 3/4	1 29/32	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