

Wire Rope Specifications

888 RINGER

Liftcrane - Luffing Jib No. 49A-44 On Boom No. 67B

Wire Rope Lengths											
Boom and Luffing Jib Length		Whip Line Boom Butt Drum				1-1/8 in. Dia. (28.6 mm) Hoist Line Front RINGER Drum		Maximum Required Parts of Line	1 in. Dia. (26 mm) Hoist Line Boom Butt Drum		Parts of Line for Full Hoisting Range
		1 Part		2 Part							
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters		Ft.	Meters	
225	68.6	520	158	775	236	4400	1341	18	1600	488	6
245	74.7	560	171	825	251	4550	1387	17	1500	457	5
250	76.2	570	174	850	259	4650	1417	17	1550	472	5
265	80.8	590	180	900	274	4600	1402	16	1650	503	5
270	82.3	600	183	900	274	5000	1524	17	1650	503	5
275	83.8	610	186	925	282	5100	1554	17	1700	518	5
285	86.9	630	192	925	282	4400	1341	14	1750	533	5
290	88.4	640	195	950	290	4750	1448	15	1500	457	4
295	89.9	650	198	975	297	4850	1478	15	1550	472	4
300	91.4	660	201	1000	305	5250*	1600*	16	1550	472	4
305	93.0	670	204	1000	305	4350	1326	13	1600	488	4
310	94.5	680	207	1025	312	4750	1448	14	1600	488	4
315	96.0	690	210	1025	312	4850	1478	14	1600	488	4
320	97.5	700	213	1050	320	5250*	1600*	15	1650	503	4
325	99.1	710	216	1050	320	5000	1524	14	1700	518	4
330	100.6	720	219	1075	328	4700	1433	13	1700	518	4
335	102.1	730	223	1100	335	4800	1463	13	1700	518	4
340	103.6	740	226	1100	335	4850	1478	13	1750	533	4
345	105.2	750	229	1125	343	4950	1509	13	1800	549	4
350	106.7	760	232	1150	351	5000	1524	13	1800	549	4
355	108.2	770	235	1150	351	4700	1433	12	1800	549	4
360	109.7	780	238	1175	358	4800	1463	12	1500	457	3
365	111.3	790	241	1175	358	4850	1478	12	1500	457	3
370	112.8	800	244	1200	366	4900	1494	12	1550	472	3
375	114.3	810	247	1225	373	5000	1524	12	1550	472	3
380	115.8	820	250	1225	373	4650	1417	11	1550	472	3
385	117.3	830	253	1250	381	4350	1326	10	1600	488	3
390	118.9	840	256	1250	381	4400	1341	10	1600	488	3
395	120.4	850	259	1275	389	4450	1356	10	1650	503	3
400	121.9	860	262	1300	396	4500	1372	10	1650	503	3
405	123.4	870	265	1300	396	4150	1265	9	1650	503	3
410	125.0	880	268	1325	404	4200	1280	9	1700	518	3
415	126.5	890	271	1325	404	4250	1295	9	1700	518	3
420	128.0	900	274	1350	411	4300	1311	9	1750	533	3
425	129.5	910	277	1375	419	3900	1189	8	1750	533	3
430	131.1	920	280	1375	419	3950	1204	8	1750	533	3
435	132.6	930	283	1400	427	4000	1219	8	1800	549	3
440	134.1	940	287	1400	427	4050	1234	8	1800	549	3
445	135.6	950	290	1425	434	4100	1250	8	1850	564	3
450	137.2	960	293	1425	434	3650	1113	7	1850	564	3
455	138.7	970	296	1450	442	3700	1128	7	1850	564	3
460	140.2	980	299	1475	450	3750	1143	7	1900	579	3
465	141.7	990	302	1475	450	3800	1158	7	1900	579	3
470	143.3	1000	305	1500	457	3850	1173	7	1950	594	3
475	144.8	1010	308	1500	457	3400	1036	6	1950	594	3

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Boom and Luffing Jib Length		Whip Line Boom Butt Drum				1-1/8 in. Dia. (28.6 mm) Hoist Line Front RINGER Drum		Maximum Required Parts of Line	1 in. Dia. (26 mm) Hoist Line Boom Butt Drum		Parts of Line for Full Hoisting Range
		1 Part		2 Part					Ft.	Meters	
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters		Ft.	Meters	
480	146.3	1020	311	1525	465	3450	1052	6	1550	472	2
485	147.8	1030	314	1550	472	3500	1067	6	1550	472	2
490	149.4	1040	317	1550	472	3550	1082	6	1550	472	2
495	150.9	1050	320	1575	480	3550	1082	6	1600	488	2
500	152.4	1060	323	1575	480	3600	1097	6	1600	488	2
505	153.9	1070	326	1600	488	3600	1097	6	1600	488	2
510	155.5	1080	329	1625	495	3150	960	5	1600	488	2
515	157.0	1090	332	1625	495	3200	975	5	1650	503	2
520	158.5	1100	335	1650	503	3200	975	5	1650	503	2
525	160.0	1110	338	1650	503	3250	991	5	1650	503	2
530	161.5	1120	341	1675	511	3250	991	5	1700	518	2
535	163.1	1130	344	1700	518	3300	1006	5	1700	518	2
540	164.6	1140	347	1700	518	3350	1021	5	1700	518	2
545	166.1	1150	351	1725	526	3350	1021	5	1750	533	2
550	167.6	1160	354	1725	526	2800	853	4	1750	533	2
555	169.2	1170	357	1750	533	2850	869	4	1750	533	2
560	170.7	1180	360	1775	541	2900	884	4	1750	533	2
565	172.2	1190	363	1775	541	2900	884	4	1800	549	2
570	173.7	1200	366	1800	549	2900	884	4	1800	549	2
575	175.3	1210	369	1800	549	2950	899	4	1800	549	2
580	176.8	1220	372	1825	556	3000	914	4	1850	564	2
595	181.4	1250	381	1850	564	3050	930	4	1850	564	2
600	182.9	1260	384	1875	572	3050	930	4	1900	579	2
620	189.0	1300	396	1900	579	2550	777	3	1900	579	2

Note: Hoist line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of line times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required. Parts of line and wire rope lengths for 1-1/8 in. (28.6 mm) Dia. are based on maximum capacity rating available for boom and jib length combinations. Maximum hoist line length indicated by asterick (*).

Capacity chart restrictions will occur when boom butt drum is used for hoist line application. Maximum capacity is 120,000 Lbs. (54 430 kg) with 6 parts line and full hoisting range.

Hoist Reeving for Main Load Block - Front Drum - 1-1/8 in. (28.6 mm) Wire Rope						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - Lbs.	32,300	64,600	96,900	129,200	161,500	193,800
Maximum Load - kg	14 650	29 300	43 950	58 600	73 260	87 910
No. Parts of Line	7	8	9	10	11	12
Maximum Load - Lbs.	226,100	258,400	290,700	323,000	355,300	387,600
Maximum Load - kg	102 560	117 210	131 860	146 510	161 160	175 810
No. Parts of Line	13	14	15	16	17	18
Maximum Load - Lbs.	419,900	452,200	484,500	516,800	549,100	551,200
Maximum Load - kg	190 460	205 110	219 770	234 420	249 070	250 000

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Hoist Reeving for Main Load Block - Boom Butt Drum - 1 in. (26 mm) Wire Rope						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - Lbs.	20,000	40,000	60,000	80,000	100,000	120,000
Maximum Load - kg	9 070	18 140	27 220	36 290	45 360	54 430

Wire Rope Specifications	
Hoist Line:	1-1/8 in. (28.6 mm) - 1 960 N/mm ² Wire Rope, Right Regular Lay Rotation Resistant (MCC Part No. 719399) Minimum Breaking Strength = 161,600 Lbs. (718.5 kN) Maximum Load = 32,300 Lbs. (14 650 kg) per line Approx. Weight = 2.48 Lbs. Per Ft. (3.69 kg/m)
Hoist or Whip Line: (Boom Butt Drum)	1 in. - 1 960 N/mm ² Wire Rope, Right Regular Lay Rotation Resistant (MCC Part No. 719401) Minimum Breaking Strength = 127,400 Lbs. (566.1 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 1.97 Lbs. Per Ft. (2.93 kg/m) or 1 in. - 1 960 N/mm ² Wire Rope Rotation Resistant (MCC Part No. 719393) Minimum Breaking Strength = 139,600 Lbs. (620.9 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 2.03 Lbs. Per Ft. (3.02 kg/m) or 26 mm - 1 960 N/mm ² Wire Rope, Right Regular Lay Rotation Resistant (MCC Part No. 719402) Minimum Breaking Strength = 133,400 Lbs. (593.7 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 2.07 Lbs. Per Ft. (3.08 kg/m) or 26 mm - 1 960 N/mm ² Wire Rope Rotation Resistant (MCC Part No. 719378) Minimum Breaking Strength = 146,200 Lbs. (650.6 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 2.13 Lbs. Per Ft. (3.17 kg/m)

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Maximum Spooling Capacities

Front RINGER Drum: 1-1/8 in. (28.6 mm) Wire Rope - 10 Layers - 7,062 Ft. (2 152m) with 35¾ in. (908 mm) Dia. Lagging (Hoist Line)

Boom Butt Drum: 1 in. Wire Rope - 6 Layers - 1,335 Ft. (407m)
(Hoist or Whip Line) 1,428 Ft. (435m) with 21¼ in. (540 mm) Dia. Lagging

26 mm Wire Rope - 6 Layers - 1,323 Ft. (403m)
1,415 Ft. (431m) with 21¼ in. (540 mm) Dia. Lagging

17 Ft. (5m) [29 Ft. (9m) with 35¾ in. (908 mm) Dia. Lagging] is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.

Refer to Drum and Lagging chart **No. 6121-A**.