

Wire Rope Specifications

888 RINGER

Liftcrane - Jib No. 22EL On Boom No. 67B

Wire Rope Lengths											
Boom and Jib Length		Whip Line Rear RINGER Drum or Boom Butt Drum				1-1/8 in. Dia. (28.6 mm) Hoist Line Front or Rear 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	
195	59.4	460	140	675	206	2850	869	13	1600	488	7
205	62.5	480	146	700	213	2800	853	12	1700	518	7
220	67.1	510	155	750	229	3200	975	13	1600	488	6
225	68.6	520	158	775	236	2550	777	10	1650	503	6
230	70.1	530	162	800	244	3100	945	12	1650	503	6
245	74.7	560	171	825	251	3550	1082	13	1500	457	5
250	76.2	570	174	850	259	2850	869	10	1550	472	5
255	77.7	580	177	850	259	3400	1036	12	1600	488	5
265	80.8	590	180	900	274	2450	747	8	1650	503	5
270	82.3	600	183	900	274	3900	1189	13	1650	503	5
275	83.8	610	186	925	282	3100	945	10	1700	518	5
280	85.3	620	189	925	282	3750	1143	12	1750	533	5
285	86.9	630	192	925	282	2350	716	7	1750	533	5
290	88.4	640	195	950	290	2700	823	8	1500	457	4
295	89.9	650	198	975	297	3950	1204	12	1550	472	4
300	91.4	660	201	1000	305	3400	1036	10	1550	472	4
305	93.0	670	204	1000	305	3750	1143	11	1600	488	4
310	94.5	680	207	1025	312	2550	777	7	1600	488	4
315	96.0	690	210	1025	312	2900	884	8	1600	488	4
320	97.5	700	213	1050	320	4250	1295	12	1650	503	4
325	99.1	710	216	1050	320	3650	1113	10	1700	518	4
330	100.6	720	219	1075	328	4050	1234	11	1700	518	4
335	102.1	730	223	1100	335	2750	838	7	1700	518	4
340	103.6	740	226	1100	335	3150	960	8	1750	533	4
345	105.2	750	229	1125	343	4250	1295	11	1800	549	4
350	106.7	760	232	1150	351	3950	1204	10	1800	549	4
355	108.2	770	235	1150	351	4350	1326	11	1800	549	4
360	109.7	780	238	1175	358	2950	899	7	1500	457	3
365	111.3	790	241	1175	358	3350	1021	8	1500	457	3
370	112.8	800	244	1200	366	4550*	1387*	11	1550	472	3
375	114.3	810	247	1225	373	3800	1158	9	1550	472	3
380	115.8	820	250	1225	373	4250	1295	10	1550	472	3
385	117.3	830	253	1250	381	2750	838	6	1600	488	3
390	118.9	840	256	1250	381	3200	975	7	1600	488	3
395	120.4	850	259	1275	389	4450	1356	10	1650	503	3
400	121.9	860	262	1300	396	4100	1250	9	1650	503	3
405	123.4	870	265	1300	396	4150	1265	9	1650	503	3
410	125.0	880	268	1325	404	2950	899	6	1700	518	3
415	126.5	890	271	1325	404	3400	1036	7	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	3100	945	6	1800	549	3
440	134.1	940	287	1400	427	3600	1097	7	1800	549	3
445	135.6	950	290	1425	434	3650	1113	7	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

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		1 Part		2 Part							
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters		Ft.	Meters	
460	140.2	980	299	1475	450	3250	991	6	1900	579	3
465	141.7	990	302	1475	450	3300	1006	6	1900	579	3
470	143.3	1000	305	1500	457	3350	1021	6	1950	594	3
475	144.8	1010	308	1500	457	3400	1036	6	1950	594	3
480	146.3	1020	311	1525	465	2950	899	5	1550	472	2
485	147.8	1030	314	1550	472	2950	899	5	1550	472	2
490	149.4	1040	317	1550	472	3500	1067	6	1550	472	2
495	150.9	1050	320	1575	480	2550	777	4	1600	488	2
500	152.4	1060	323	1575	480	2600	792	4	1600	488	2
505	153.9	1070	326	1600	488	3100	945	5	1600	488	2
510	155.5	1080	329	1625	495	3100	945	5	1600	488	2
515	157.0	1090	332	1625	495	2150	655	3	1650	503	2
520	158.5	1100	335	1650	503	2650	808	4	1650	503	2
525	160.0	1110	338	1650	503	2700	823	4	1650	503	2
530	161.5	1120	341	1675	511	2700	823	4	1700	518	2
535	163.1	1130	344	1700	518	2200	671	3	1700	518	2
540	164.6	1140	347	1700	518	2250	686	3	1700	518	2
545	166.1	1150	351	1725	526	2800	853	4	1750	533	2
550	167.6	1160	354	1725	526	1700	518	2	1750	533	2
555	169.2	1170	357	1750	533	2300	701	3	1750	533	2
560	170.7	1180	360	1775	541	2300	701	3	1750	533	2
565	172.2	1190	363	1775	541	2350	716	3	1800	549	2
575	175.3	1210	369	1800	549	1800	549	2	1800	549	2
580	176.8	1220	372	1825	556	2400	732	3	1850	564	2
600	182.9	1260	384	1875	572	1900	579	2	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 140,000 Lbs. (63 500 kg) with 7 parts line and full hoisting range.

Hoist Reeving for Main Load Block - Front or Rear Drum - 1-1/8 in. (28.6 mm) Wire Rope							
No. Parts of Line	1	2	3	4	5	6	7
Maximum Load - Lbs.	32,300	64,600	96,900	129,200	161,500	193,800	226,100
Maximum Load - kg	14 650	29 300	43 950	58 600	73 260	87 910	102 560
No. Parts of Line	8	9	10	11	12	13	
Maximum Load - Lbs.	258,400	290,700	323,000	355,300	387,600	400,000	
Maximum Load - kg	117 210	131 860	146 510	161 160	175 810	181 400	

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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	7
Maximum Load - Lbs.	20,000	40,000	60,000	80,000	100,000	120,000	140,000
Maximum Load - kg	9 070	18 140	27 220	36 290	45 360	54 430	63 500

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)
Whip 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)

Rear RINGER Drum: 1-1/8 in. (28.6 mm) Wire Rope - 8 Layers - 3,714 Ft. (1 132m) with 30½ in. (775 mm) Dia. Lagging (Hoist or Whip 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) [25 Ft. (8m) with 30½ in. (775 mm) Dia. Lagging and 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**.