

Wire Rope Specifications

555 SERIES 1, 2

Liftcrane - Boom No. 84

Wire Rope Lengths								
Boom or Boom and Jib Length		Whip Line Front or Auxiliary Drum				Hoist Line Rear Drum		Maximum Required Parts of Line
		1 Part		2 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
50	15.2	140	43	210	64	580	177	9
60	18.3	160	49	240	73	680	207	9
70	21.3	180	55	270	82	780	238	9
80	24.4	200	61	300	91	800	244	8
90	27.4	220	67	330	101	880	268	8
100	30.5	240	73	360	110	880	268	7
110	33.5	260	79	390	119	940	287	7
120	36.6	280	85	420	128	940	287	6
130	39.6	300	91	450	137	960	293	6
140	42.7	320	98	480	146	960	293	5
150	45.7	340	104	500	152	960	293	5
160	48.8	360	110	530	162	960	293	4
170	51.8	380	116	560	171	960	293	4
180	54.9	400	122	590	180	960	293	4
190	57.9	420	128	620	189	960	293	3
200	61.0	440	134	650	198	960	293	3
210	64.0	460	140	680	207	960	293	3
220	67.1	480	146	710	216	960	293	3
230	70.1	500	152	740	226	960	293	3
240	73.2	520	158	770	235	960	293	2
250	76.2	540	165	800	244	960	293	2
260	79.2	560	171	830	253			
270	82.3	580	177					
280	85.3	600	183					

Note: Hoist line and whip 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.

9 parts of line requires upper boom point.



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Hoist Reeving for Main Load Block					
No. Parts of Line	1	2	3	4	5
Maximum Load Lbs.	33,000	66,000	99,000	132,000	165,000
Maximum Load kg	14 970	29 940	44 910	59 870	74 840
No. Parts of Line	6	7	8	9	
Maximum Load Lbs.	198,000	231,000	264,000	300,000	
Maximum Load kg	89 810	104 780	119 750	136 000	

Maximum Spooling Capacities	
Rear Drum: (Hoist Line)	28 mm Wire Rope - 6 Layers - 962 Ft. (293m)
Front Drum: (Whip Line)	28 mm Wire Rope - 6 Layers - 962 Ft. (293m)
Auxiliary Drum: (Whip Line)	28 mm Wire Rope - 6 Layers - 962 Ft. (293m)
18 Ft. (5m) is deducted from maximum spooling capacities for 3 dead wraps per drum.	

Refer to Drum and Lagging Chart No. 8442-A.

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Rotation Resistant Wire Rope - 5:1 Safety Factor

Hoist Line:	28 mm -	Wire Rope With Pad Eye (MCC Part No. A00840) Right Hand Lang Lay Minimum Breaking Strength = 168,800 Lbs. (750.8 kN) Maximum Load = 33,000 Lbs. (14 970 kg) Per Line Approx. Weight = 2.63 Lbs Per Ft. (3.91 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Whip Line:	28 mm -	Wire Rope With Pad Eye (MCC Part No. A00840) Right Hand Lang Lay Minimum Breaking Strength = 168,800 Lbs. (750.8 kN) Maximum Load = 30,000 Lbs. (13 610 kg) Per Line Approx. Weight = 2.63 Lbs Per Ft. (3.91 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Auxiliary Line:	28 mm -	Wire Rope With Pad Eye (MCC Part No. A00840) Right Hand Lang Lay Minimum Breaking Strength = 168,800 Lbs. (750.8 kN) Maximum Load = 30,000 Lbs. (13 610 kg) Per Line Approx. Weight = 2.63 Lbs Per Ft. (3.91 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)

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Wire Rope Specifications

Non-Rotation Resistant Wire Rope - 3.5:1 Safety Factor

Hoist Line:	28 mm -	6 X 36 Extra Extra Improved Plow Steel Wire Rope With Pad Eye (MCC Part No. A02479) Right Hand Regular Lay, IWRC Minimum Breaking Strength = 135,600 Lbs. (603.1 kN) Maximum Load = 33,000 Lbs. (14 970 kg) Per Line Approx. Weight = 2.24 Lbs Per Ft. (3.33 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Whip Line:	28 mm -	6 X 36 Extra Extra Improved Plow Steel Wire Rope With Pad Eye (MCC Part No. A02479) Right Hand Regular Lay, IWRC Minimum Breaking Strength = 135,600 Lbs. (603.1 kN) Maximum Load = 30,000 Lbs. (13 610 kg) Per Line Approx. Weight = 2.24 Lbs Per Ft. (3.33 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)
Auxiliary Line:	28 mm -	6 X 36 Extra Extra Improved Plow Steel Wire Rope With Pad Eye (MCC Part No. A02479) Right Hand Regular Lay, IWRC Minimum Breaking Strength = 135,600 Lbs. (603.1 kN) Maximum Load = 30,000 Lbs. (13 610 kg) Per Line Approx. Weight = 2.24 Lbs Per Ft. (3.33 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)