

Wire Rope Specifications

555 SERIES 2

Liftcrane - Luffing Jib No. 155 on Boom No. 84

Wire Rope Lengths - Front or Auxiliary Drum									
Boom and Luffing Jib Length		Luffing Jib Hoist Line Front Drum or Auxiliary Drum						Intermediate Fall Auxiliary Drum	
		3 Part		2 Part		1 Part		1 Part	
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters
120	36.6	550	168	425	130	270	82		
130	39.6	600	183	450	137	290	88		
140	42.7	625	191	475	145	310	95		
150	45.7	675	206	525	160	330	101		
160	48.8	700	213	550	168	350	107		
170	51.8	725	221	575	175	370	113	300	91
180	54.9	775	236	600	183	390	119	320	98
190	57.9	800	244	625	191	410	125	340	104
200	61.0	850	259	650	198	430	131	360	110
210	64.0	900	274	675	206	450	137	380	116
220	67.1	—	—	700	213	470	143	400	122
230	70.1	—	—	750	229	490	149	420	128
240	73.2	—	—	775	236	510	155	440	134
250	76.2	—	—	800	244	530	162	460	140
260	79.2	—	—	825	251	550	168	480	146
270	82.3	—	—	850	259	570	174	500	152
280	85.3	—	—	875	267	590	180	520	158
290	88.4	—	—	925	282	610	186	520	158
300	91.4	—	—	950	290	630	192	520	158
310	94.5	—	—	—	—	650	198	520	158
320	97.5	—	—	—	—	670	204	520	158
330	100.6	—	—	—	—	690	210	—	—

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.

Intermediate fall maximum capacity is 15,000 Lbs. (6 800 kg).

Hoist Reeving for Main Load Block - Front Drum			
No. Parts of Line	1	2	3
Maximum Load - Lbs.	33,000	66,000	90,000
Maximum Load - kg	14 970	29 940	40 800

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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>		
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)
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 = 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)
<u>Optional Wire Rope - 3.5:1 Safety Factor</u>		
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)
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 = 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)
Note: Block spin may occur with 6 x 36 construction wire rope under certain operating conditions.		

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

Refer to drum and lagging chart **No. 8442-A**.