

Wire Rope Specifications

999 SERIES 2, 3

Liftcrane - Fixed Jib No. 138 On
Luffing Jib No. 135 On
Boom No. 82 or 22EL

Wire Rope Lengths Front Drum or Auxiliary Drum			
Boom, Luffing Jib and Fixed Jib Length		Fixed Jib Whip Line	
		1 Part	
Ft.	Meters	Ft.	Meters
330	100.6	690	210
340	103.6	710	216
350	106.7	730	223
360	109.7	750	229
370	112.8	770	235
380	115.8	790	241
390	118.9	810	247
400	121.9	830	253
410	125.0	850	259
420	128.0	870	265
430	131.1	890	271

Note: Whip line lengths given in table will allow hook to touch ground. When hook travel below ground is required, add additional rope times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Maximum capacity on 26 mm wire rope is 27,500 Lbs. (12 400 kg) per line (20,000 Lbs. [9 070 kg] on 26 mm or 1 in. wire rope when auxiliary drum is used).

Refer to drum and lagging chart **No. 8222-A**.

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Rotation Resistant Wire Rope - 5:1 Safety Factor

Whip Line:	26 mm -	2 160 N/mm ² Wire Rope With Pad Eye (MCC Part No. 719430) Right Hand Regular Lay Minimum Breaking Strength Required = 147,500 Lbs. (656.1 kN) Maximum Load = 29,500 Lbs. (13 380 kg) Per Line Approx. Weight = 2.13 Lbs Per Ft. (3.17 kg/m) No Load Dia. = 1.033 in. (26.24 mm) to 1.045 in. (26.54 mm)
	Or	
	26 mm -	Wire Rope With Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength Required = 147,500 Lbs. (656.1 kN) Maximum Load = 29,500 Lbs. (13 380 kg) Per Line Approx. Weight = 2.39 Lbs Per Ft. (3.56 kg/m) No Load Dia. = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)
Whip Line: (Auxiliary Drum)	26 mm -	1 960 N/mm ² Wire Rope (MCC Part No. 719378) Right Hand Regular Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.13 Lbs. Per Ft. (3.17 kg/m) No Load Dia. (required for lagging) = 1.033 in. (26.24 mm) to 1.045 in. (26.54 mm)
	Or	
	26 mm -	Wire Rope With Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.39 Lbs. Per Ft. (3.56 kg/m) No Load Dia. (required for lagging) = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)
	1 in. -	1 960 N/mm ² Wire Rope (MCC Part No. 719393) Right Hand Regular Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.03 Lbs. Per Ft. (3.02 kg/m) No Load Dia. (required for lagging) = 1.012 in. (25.70 mm) to 1.028 in. (26.11 mm)
	Or	
	1 in. -	Wire Rope (MCC Part No. 719436) Right Hand Lang Lay Minimum Breaking Strength Required = 100,000 Lbs. (445.0 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 2.26 Lbs. Per Ft. (3.26 kg/m) No Load Dia. (required for lagging) = 1.020 in. (25.91 mm) to 1.036 in. (26.31 mm)

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Wire Rope Specifications	
<u>Optional Wire Rope - 3.5 : 1 Safety Factor</u>	
Whip Line:	26 mm - 6 X 25 Filler Wire, Extra Improved Plow Steel Right Hand Regular Lay, IWRC (MCC Part No. 719387) Minimum Breaking Strength Required = 103,250 Lbs. (459.5 kN) Maximum Load = 29,500 Lbs. (13 380 kg) Per Line Approx. Weight = 1.94 Lbs. Per. Ft. (2.89 kg/m) No Load Dia. = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)
Whip Line: (Auxiliary Drum)	26 mm - 6 X 25 Filler Wire, Extra Improved Plow Steel Right Hand Regular Lay, IWRC (MCC Part No. 719387) Minimum Breaking Strength Required = 70,000 Lbs. (311.5 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 1.94 Lbs. Per. Ft. (2.89 kg/m) No Load Dia. (required for lagging) = 1.034 in. (26.26 mm) to 1.054 in. (26.77 mm)
Or	
	1 in. - 6 X 25 Filler Wire, Improved Plow Steel Right Hand Regular Lay, IWRC (MCC Part No. 719433) Minimum Breaking Strength Required = 70,000 Lbs. (311.5 kN) Maximum Load = 20,000 Lbs. (9 070 kg) Per Line Approx. Weight = 1.85 Lbs. Per. Ft. (2.75 kg/m) No Load Dia. (required for lagging) = 1.020 in. (25.91 mm) to 1.038 in. (26.37 mm)

Note: Block spin may occur with 6 X 25 construction wire rope under certain operating conditions.

Maximum Spooling Capacities	
Front Drum: (Whip Line)	26 mm Wire Rope - 7 Layers - 1,727 Ft. (526m)
Auxiliary Drum: (Whip Line)	26 mm Wire Rope - 6 Layers - 1,323 Ft. (403m) 6 Layers - 1,415 Ft. (431m) with 21-1/4 in. (540 mm) Dia. Lagging
	1 in. Wire Rope - 6 Layers - 1,335 Ft. (407m) 6 Layers - 1,428 Ft. (435m) with 21-1/4 in. (540 mm) Dia. Lagging
17 Ft. (5m) is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.	

Note: When optional laggings are used, the recommended lagging for specific wire rope dia. must be used.