

# Wire Rope Specifications

## 999 SERIES 3

Liftcrane - Fixed Jib No. 134 On  
Luffing Jib No. 149 On  
Boom No. 82  
Assemble-In-Air/Outside Assist

Wire Rope Lengths			
Boom, Luffing Jib and Fixed Jib Length		Fixed Jib Whip Line Front Drum or Auxiliary Drum	
		1 Part	
Ft.	Meters	Ft.	Meters
410	125.0	850	259
420	128.0	870	265
430	131.1	890	271
440	134.1	910	277
450	137.2	930	283
460	140.2	950	290
470	143.3	970	296
480	146.3	990	302
500	152.4	1010	308

**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 29,500 Lbs. (13 380 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 <sup>2</sup> Wire Rope With Pad Eye (MCC Part No. 719430) 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) 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)
	Or	
Whip Line: (Auxiliary Drum)	26 mm -	1 960 N/mm <sup>2</sup> Wire Rope (MCC Part No. 719378) 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) 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)
	Or	
	1 in. -	1 960 N/mm <sup>2</sup> Wire Rope (MCC Part No. 719393) 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 1.038 in. (26.11 mm)
	Or	
	1 in. -	Wire Rope (MCC Part No. 719436) 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)
	Or	

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<u>Optional Wire Rope - 3.5 : 1 Safety Factor</u>	
Whip Line:	26 mm - 6 X 25 Filler Wire, Extra Improved Plow Steel Right Regular Lay, IWRC (MCC Part No. 719387) Minimum Breaking Strength Required = 103,250 Lbs. (459.5 kN) 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 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 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.