

Wire Rope Specifications

999 SERIES 2, 3

Liftcrane - Boom No. 82

Luffing Jib No. 149 Attached

European
Standards

WIRE ROPE LENGTHS - FRONT DRUM					
Boom Length		Hoist Line Front Drum		Maximum Required Parts of Line	
				999 SERIES	
Ft.	Meters	Ft.	Meters	2	3
80	24.4	1350	411	14	14
90	27.4	1400	427	12	13
100	30.5	1425	434	11	12
110	33.5	1425	434	9	11
120	36.6	1425	434	9	10
130	39.6	1425	434	8	9
140	42.7	1425	434	7	8
150	45.7	1450	442	7	8
160	48.8	1450	442	6	7
170	51.8	1500	457	6	7
180	54.9	1500	457	5	6
190	57.9	1500	457		4

Note: Hoist line lengths given in tables 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.

HOIST REEVING FOR MAIN LOAD BLOCK FRONT DRUM					
Parts of Line	Maximum Load		Parts of Line	Maximum Load	
	Lbs.	kg		Lbs.	kg
1	29,500	13 380	8	236,000	107 050
2	59,000	26 760	9	265,500	120 430
3	88,500	40 140	10	295,000	133 810
4	118,000	53 520	11	324,500	147 190
5	147,500	66 900	12	354,000	160 570
6	177,000	80 290	13	383,500	173 950
7	206,500	93 670	14	408,800	185 400



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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>		
Hoist Line:	26 mm -	2 160 N/mm ² 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. (26.2 mm) to 1.045 in. (26.5 mm)
		Or
	26 mm -	2 160 N/mm ² 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. (26.3 mm) to 1.054 in. (26.8 mm)

Maximum Spooling Capacities	
Front Drum: (Hoist Line)	26 mm Wire Rope - 7 Layers - 1,727 Ft. (526m)
Auxiliary Drum: (Intermediate Fall 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
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.

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