

# Wire Rope Specifications

## MLC165-1

Luffing Jib No. 135 on Boom No. 74A

Maximum Required Parts of Line - Drum 1 or 2												
Boom Length		Luffing Jib Length Meters (Feet)										
Meters	Feet	21,3 (70.0)	24,4 (80.0)	27,4 (90.0)	30,5 (100.0)	33,5 (110.0)	36,6 (120.0)	39,6 (130.0)	42,7 (140.0)	45,7 (150.0)	48,8 (160.0)	51,8 (170.0)
21,0	68.9	4	4	4	4	3	3	2	2	2	2	2
24,0	78.7	4	4	4	3	3	3	2	2	2	2	2
27,0	88.6	4	4	4	3	3	3	2	2	2	2	2
30,0	98.4	4	4	4	3	3	3	2	2	2	2	2
33,0	108.3	4	4	3	3	3	3	2	2	2	2	2
36,0	118.1	4	4	3	3	3	2	2	2	2	2	2
39,0	128.0	4	3	3	3	3	2	2	2	2	2	2
42,0	137.8	4	3	3	3	3	2	2	2	2	2	2
45,0	147.6	3	3	3	3	3	2	2	2	2	2	2
48,0	157.5	3	3	3	3	2	2	2	2	2	2	2
51,0	167.3	3	3	3	2	2	2	2	2	2	2	1

Wire Rope Lengths (Includes All Luffing Jib Lengths)			
Boom Length		Hoist Line Drum 1 or 2	
Meters	Feet	Meters	Feet
21,0	68.9	270	890
24,0	78.7	275	900
27,0	88.6	290	950
30,0	98.4	305	1,000
33,0	108.3	305	1,000
36,0	118.1	320	1,050
39,0	128.0	320	1,050
42,0	137.8	335	1,100
45,0	147.6	330	1,080
48,0	157.5	330	1,080
51,0	167.3	330	1,080

**Note:** Hoist line lengths given in table include all luffing jib lengths. 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.

Refer to Block Overhaul Weights chart **No. 9414-A** for minimum weight required for block lowering.

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Hoist Reeving for Main Load Block - Drum 1 or 2				
No. Parts of Line	1	2	3	4
Maximum Load - kg	12 500	25 000	37 500	50 000
Maximum Load - lb	27,558	55,116	82,674	110,300
Maximum Load per Part of Line - kg	12 500	12 500	12 500	12 500
Maximum Load per Part of Line - lb	27,558	27,558	27,558	27,575

Wire Rope Specifications
<p><u>Rotation Resistant Wire Rope</u></p> <p><b>Hoist Line:</b>  <b>26 mm</b> (Drum 1 or 2):            Wire Rope with Pad Eye            Right Hand Lang Lay            Minimum Breaking Strength = 62 600 kg (138,000 lb)            Approx. Weight = 3,4 kg/m (2.3 lb/ft)</p>

Maximum Spooling Capacities	
Drum 2: (Rear - Hoist Line)	26 mm Wire Rope - 6 Layers - 408 m (1,340 ft)
Drum 1: (Front - Hoist Line)	26 mm Wire Rope - 6 Layers - 408 m (1,340 ft)
6 m (20 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2.	

Refer to Drum and Lagging chart **No. 9401-A** and Load Block Reeving in Operator's Manual.