

# Wire Rope Specifications

## MLC650

Liftcrane - Boom No. B10:680  
Luffing Jib No. LJ10:681-682 Attached

Wire Rope Lengths - Single Hoist Drum				
Boom Length		Hoist Line Drum 1 or 2		Total Parts of Line
Meters	Feet	Meters	Feet	
38,0	124.7	675	2,210	16
44,0	144.4	780	2,560	16
50,0	164.0	880	2,890	16
56,0	183.7	980	3,210	16
62,0	203.4	1 085	3,560	16
68,0	223.1	1 115	3,660	15

**Note:** Above hoist line lengths are based on single part lead line. Hoist and whip line lengths 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 - Single Lead Lines						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	22 130	44 260	66 390	88 520	110 650	132 780
Maximum Load - lb	48,800	97,600	146,400	195,200	244,000	292,800
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130	22 130	22 130
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800	48,800	48,800
No. Parts of Line	7	8	9	10	11	12
Maximum Load - kg	154 910	177 040	199 170	221 300	243 430	265 560
Maximum Load - lb	341,600	390,400	439,200	488,000	536,800	585,600
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130	22 130	22 130
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800	48,800	48,800
No. Parts of Line	13	14	15	16		
Maximum Load - kg	287 690	309 820	330 500	350 900		
Maximum Load - lb	634,400	683,200	728,800	773,600		
Maximum Load per Part of Line - kg	22 130	22 130	22 039	21 931		
Maximum Load per Part of Line - lb	48,800	48,800	48,588	48,350		

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<u>Rotation Resistant Wire Rope</u>	
<b>Hoist Line:</b>	
<b>32 mm</b> (Drum 1 & 2):	
Wire Rope with Spelter Button and Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 110 680 kg (244,000 lb)	
Approx. Weight = 5,6 kg/m (3.7 lb/ft)	

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
Drum 2: (Hoist Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9351-A** and Load Block Reeving in Operator's Manual.

Refer to Block Overhaul Weights chart **No. 9409-A** for minimum weight required for block lowering.