

# Wire Rope Specifications

## MLC650

Liftcrane - Boom No. B40:680-681-682  
with 7,6 m (24.9 ft) Extended Upper Boom Point

Wire Rope Lengths - Single Hoist Drum												
Boom Length		Whip Line Drum 1 or 3								Hoist Line Drum 1 or 2		Total Parts of Line
		1 Part		2 Parts		3 Parts		4 Parts				
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	
44,0	144.4	120	390	175	570	195	640	240	790	380	1,240	6
50,0	164.0	135	430	195	630	220	720	270	890	425	1,380	6
56,0	183.7	145	470	210	690	245	800	300	990	465	1,520	6
62,0	203.4	155	510	230	750	265	870	330	1,080	505	1,660	6
68,0	223.1	170	550	250	810	290	950	360	1,180	550	1,790	6
74,0	242.8	180	590	265	870	315	1,030	390	1,280	590	1,930	6
77,0	252.6	185	610	275	890	325	1,070	405	1,330	610	2,000	6
80,0	262.5	190	630	280	920	340	1,110	420	1,370	630	2,070	6
83,0	272.3	200	650	290	950	350	1,150	435	1,420	650	2,140	6
86,0	282.2	205	670	300	980	365	1,190	450	1,470	675	2,210	6
89,0	292.0	210	690	310	1,010	375	1,230	465	1,520	695	2,280	6
92,0	301.8	215	710	320	1,040	390	1,270	480	1,570	715	2,350	6
95,0	311.7	225	730	330	1,070	400	1,310	495	1,620	740	2,420	6
98,0	321.5	230	750	335	1,100	410	1,350	510	1,670	760	2,490	6
101,0	331.4	235	770	345	1,130	420	1,380	525	1,720	780	2,550	6
104,0	341.2	240	790	355	1,160	435	1,420	540	1,770	800	2,620	6
107,0	351.0	245	800	365	1,190	445	1,460	555	1,820	820	2,690	6
110,0	360.9	250	820	375	1,220	460	1,500	570	1,870	840	2,760	6

**Note:** Hoist and whip 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. 9409-A for minimum weight required for block lowering.

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1 or 2)						
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

Hoist Reeving for Whip Load Block - Single Lead Line, Boom Point (Drum 3)				
No. Parts of Line	1	2	3	4
Maximum Load - kg	13 600	27 200	40 800	54 400
Maximum Load - lb	30,000	60,000	90,000	120,000
Maximum Load per Part of Line - kg	13 600	13 600	13 600	13 600
Maximum Load per Part of Line - lb	30,000	30,000	30,000	30,000

Hoist Reeving for Whip Load Block - Single Lead Line, Boom Point (Drum 1)				
No. Parts of Line	1	2	3	4
Maximum Load - kg	22 100	44 220	66 300	88 400
Maximum Load - lb	48,800	97,600	146,400	195,200
Maximum Load per Part of Line - kg	22 100	22 100	22 100	22 100
Maximum Load per Part of Line - lb	48,800	48,800	48,800	48,800

Hoist Reeving for Whip Load Block - Single Lead Line, Upper Boom Point (Upper Sheave) (Drum 1 or 3)		
No. Parts of Line	1	2
Maximum Load - kg	13 600	27 200
Maximum Load - lb	30,000	60,000
Maximum Load per Part of Line - kg	13 600	13 600
Maximum Load per Part of Line - lb	30,000	30,000

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<b>Hoist Line:</b>	
<b>32 mm (Drum 2):</b>	
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)	
<b>Hoist or Whip Line:</b>	
<b>32 mm (Drum 1):</b>	
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)	
<b>Whip Line:</b>	
<b>28 mm (Drum 3):</b>	
Wire Rope with Spelter Button and Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 72 580 kg (160,000 lb)	
Approx. Weight = 3,9 kg/m (2.6 lb/ft)	

Maximum Spooling Capacities	
Drum 1: (Hoist or Whip 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)
Drum 3: (Whip Line)	28 mm Wire Rope - 8 Layers - 579 m (1,900 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.