

Wire Rope Specifications

**MLC650
VPC-MAX**

Liftcrane - Boom No. B80:680-681-682
with Mast No. M10:684 or Mast No. M11:684 and
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	
92,0	301.8	215	710	320	1,040	390	1,270	480	1,570	810	2,650	7
98,0	321.5	230	750	335	1,100	410	1,350	510	1,670	860	2,820	7
104,0	341.2	240	790	355	1,160	435	1,420	540	1,770	905	2,970	7
110,0	360.9	250	820	375	1,220	460	1,500	570	1,870	955	3,130	7
113,0	370.7	260	850	380	1,250	470	1,540	585	1,920	975	3,200	7
116,0	380.6	265	860	390	1,280	485	1,590	600	1,970	1 000	3,280	7
119,0	390.4	270	880	400	1,310	495	1,620	615	2,018	905	2,970	6
122,0	400.3	275	900	410	1,340	505	1,660	630*	2,060*	925	3,030	6
125,0	410.1	280	920	420	1,370	520	1,700	645*	2,110*	945	3,100	6
128,0	419.9	290	950	425	1,390	530	1,740	655*	2,150*	830	2,720	5
131,0	429.8	295	960	435	1,420	545	1,780	670*	2,200*	850	2,780	5
134,0	439.6	300	980	445	1,460	555	1,820	685*	2,250*	865	2,840	5
137,0	449.5	305	1,000	455	1,490	565	1,860	700*	2,300*	885	2,900	5
140,0	459.3	310	1,020	460	1,510	580	1,900	715*	2,350*	900	2,960	5
143,0	469.2	320	1,050	470	1,540	590	1,930	730*	2,400*	770	2,520	4
146,0	479.0	325	1,060	480	1,570	600	1,970	745*	2,450*	785	2,570	4
149,0	488.8	330	1,080	490	1,600	615	2,018	760*	2,500*	800	2,620	4
152,0	498.7	335	1,100	500	1,640	625*	2,050*	775*	2,550*	815	2,670	4

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.

*Drum 1 only

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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	7
Maximum Load - kg	22 130	44 260	66 390	88 520	110 650	132 780	154 900
Maximum Load - lb	48,800	97,600	146,400	195,200	244,000	292,800	341,600
Maximum Load per Part of Line - kg	22 130	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	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	22 130	44 260	66 390	88 520
Maximum Load - lb	48,800	97,600	146,400	195,200
Maximum Load per Part of Line - kg	22 130	22 130	22 130	22 130
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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Wire Rope Specifications	
Hoist Line:	
32 mm (Drum 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)	
Hoist or Whip Line:	
32 mm (Drum 1):	
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)	
Whip Line:	
28 mm (Drum 3):	
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 the Operator Manual.

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