

Wire Rope Specifications

Jib No. 148 on
 Boom No. B60:680
 with Mast No. M10:684 or Mast No. M11:684

MLC650 VPC-MAX

Maximum Required Parts of Line - Drums 1 or 2							
Boom Length		Jib Length					
		Meters (Feet)					
Meters	Feet	12,0 (39.4)	18,0 (59.1)	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)
44,0	144.4	4	4	3	2	2	2
50,0	164.0	4	4	3	2	2	2
56,0	183.7	4	4	3	2	2	2
62,0	203.4	4	4	3	2	2	2
68,0	223.1	4	4	3	2	2	2
74,0	242.8	4	4	3	2	2	2
80,0	262.5	4	4	3	2	2	2
86,0	282.2	4	3	3	2	2	2
92,0	301.8	4	3	3	2	2	2
98,0	321.5	4	3	3	2	2	2
104,0	341.2	4	3	3	2	2	2
110,0	360.9	4	3	3	2	2	2
116,0	380.6	4	3	3	2	2	2
122,0	400.3	4	3	3	2	2	2
128,0	419.9	4	3	3	2	2	2
134,0	439.6	4	3	3	2	2	2
140,0	459.3	4	3	3	2	2	—

Maximum Parts of Line For Full Hoisting Range - Drum 3							
Boom Length		Jib Length					
		Meters (Feet)					
Meters	Feet	12,0 (39.4)	18,0 (59.1)	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)
44,0	144.4	4	4	3	3	2	2
50,0	164.0	4	4	3	3	2	2
56,0	183.7	4	4	3	3	2	2
62,0	203.4	4	4	3	3	2	2
68,0	223.1	4	4	3	3	2	2
74,0	242.8	4	4	3	3	2	2
80,0	262.5	4	4	3	3	2	2
86,0	282.2	4	4	3	3	2	2
92,0	301.8	4	4	3	3	2	2
98,0	321.5	4	4	3	3	2	2
104,0	341.2	4	3	3	3	2	2
110,0	360.9	3	3	3	3	2	2
116,0	380.6	3	3	3	3	2	2
122,0	400.3	3	3	3	2	2	2
128,0	419.9	3	3	2	2	2	2
134,0	439.6	3	2	2	2	2	2
140,0	459.3	2	2	2	2	2	—

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Wire Rope Lengths - Single Hoist Drum (Includes all Jib lengths)					
Boom Length		Hoist Line Drum 1 or 2		Hoist Line Drum 3	
Meters	Feet	Meters	Feet	Meters	Feet
44,0	144.4	325	1,070	330	1,080
50,0	164.0	355	1,170	360	1,180
56,0	183.7	385	1,270	390	1,280
62,0	203.4	415	1,360	420	1,370
68,0	223.1	445	1,460	450	1,470
74,0	242.8	475	1,560	480	1,570
80,0	262.5	505	1,660	510	1,670
86,0	282.2	505	1,660	540	1,770
92,0	301.8	535	1,760	570	1,870
98,0	321.5	565	1,850	600	1,970
104,0	341.2	595	1,950	600	1,970
110,0	360.9	625	2,050	575	1,890
116,0	380.6	655	2,150	600	1,970
122,0	400.3	685	2,240	600	1,970
128,0	419.9	715	2,340	600	1,970
134,0	439.6	745	2,440	600	1,970
140,0	459.3	775	2,540	540	1,770

Note: Above hoist line lengths are based on single part lead line. Hoist 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.

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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
Maximum Load - kg	16 670	33 340	50 010	65 000
Maximum Load - lb	36,760	73,520	110,280	143,300
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 250
Maximum Load per Part of Line - lb	36,760	36,760	36,760	35,825

Hoist Reeving for Main Load Block - Single Lead Line (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

REFERENCED ONLY

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Wire Rope Specifications	
<u>Rotation Resistant Wire Rope</u>	
Hoist Line:	
32 mm (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)	
Auxiliary 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 Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
Drum 2: (Auxiliary Line)	32 mm Wire Rope - 10 Layers - 1 100 m (3,608 ft)
Drum 3: (Auxiliary 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.