

Wire Rope Specifications

MLC650

Jib No. 148 on
Boom No. B10:680

Maximum Required Parts of Line - Drum 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)
32,0	105.0	4	4	3	2	2	2
38,0	124.7	4	4	3	2	2	2
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	4	3	2	2	2
92,0	301.8	4	4	3	2	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)
32,0	105.0	4	4	3	3	2	2
38,0	124.7	4	4	3	3	2	2
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

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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
32,0	105.0	270	890	270	890
38,0	124.7	300	980	300	980
44,0	144.4	330	1,080	330	1,080
50,0	164.0	360	1,180	360	1,180
56,0	183.7	390	1,280	390	1,280
62,0	203.4	420	1,380	420	1,380
68,0	223.1	450	1,470	450	1,470
74,0	242.8	480	1,570	480	1,570
80,0	262.5	510	1,670	510	1,670
86,0	282.2	540	1,770	540	1,770
92,0	301.8	565	1,860	570	1,870

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

REFERENCE ONLY

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<u>Rotation Resistant Wire Rope</u>	
Hoist Line:	
32 mm (Drum 1 or 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: (Hoist 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.