

Wire Rope Specifications

Liftcrane - Boom No. B10:500
Luffing Jib No. LJ10:501 Attached

Wire Rope Lengths - Tandem Hoist Drums						
Boom Length		Hoist Line Drum 2		Hoist Line Drum 3		Total Parts of Line
Meters	Feet	Meters	Feet	Meters	Feet	
30,0	98.4	265	870	265	870	14
36,0	118.1	310	1,020	310	1,020	14
42,0	137.8	360	1,180	360	1,180	14
48,0	157.5	405	1,330	405	1,330	14

Note: Above hoist line lengths are based on tandem drums both reeved to main load block. Each drum is dead ended in main load block reeving. Total parts of line requires using both drums 2 and 3. 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.

Hoist Reeving for Main Load Block - Two Lead Lines (Drums 2 & 3)					
No. Parts of Line	2	4	6	8	10
Maximum Load - kg	33 340	66 680	100 020	133 360	166 700
Maximum Load - lb	73,520	147,040	220,560	294,080	367,600
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760
No. Parts of Line	12	14			
Maximum Load - kg	200 040	233 380			
Maximum Load - lb	441,120	514,640			
Maximum Load per Part of Line - kg	16 670	16 670			
Maximum Load per Part of Line - lb	36,760	36,760			

Wire Rope Specifications

MLC300

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Wire Rope Lengths - Single Hoist Drum							
Boom Length		Hoist Line Drum 1		Total Parts of Line	Hoist Line Drum 2		Total Parts of Line
Meters	Feet	Meters	Feet		Meters	Feet	
30,0	98.4	535	1,760	16	450	1,480	13
36,0	118.1	635	2,080	16	460	1,509	11
42,0	137.8	695	2,280	15	445	1,460	9
48,0	157.5	745	2,440	14	455	1,490	8

Note: Above hoist line lengths are based on a 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.

REFERENCE ONLY

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Hoist Reeving for Main Load Block - Single Lead Lines (Drum 1 or 2)						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	16 670	33 340	50 010	66 680	83 350	100 020
Maximum Load - lb	36,760	73,520	110,280	147,040	183,800	220,560
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760	36,760
No. Parts of Line	7	8	9	10	11	12
Maximum Load - kg	116 690	133 360	150 030	166 700	183 370	200 040
Maximum Load - lb	257,320	294,080	330,840	367,600	404,360	441,120
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760	36,760
No. Parts of Line	13	14	15	16		
Maximum Load - kg	216 710	233 380	250 050	266 720		
Maximum Load - lb	477,880	514,640	551,400	588,100		
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670		
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760		

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Wire Rope Specifications	
<u>Rotation Resistant Wire Rope</u>	
Hoist Line:	
28 mm (Drum 1):	
Wire Rope with Spelter Button and Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 83 370 kg (183,800 lb)	
Approx. Weight = 4,2 kg/m (2.8 lb/ft)	
No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in)	
MCC Reference No. 81025289, 81026075, or 81024556	
Auxiliary Line:	
28 mm (Drums 2 & 3):	
Wire Rope with Spelter Button and Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 83 370 kg (183,800 lb)	
Approx. Weight = 4,2 kg/m (2.8 lb/ft)	
No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in)	
MCC Reference No. 81025289, 81026075, or 81024556	

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 8 Layers - 939 m (3,082 ft)
Drum 2: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
Drum 3: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9339-A** and Load Block Reeving in the Operator Manual.
Refer to Block Overhaul Weights chart **No. 9413-A** for minimum weight required for block lowering.