

Wire Rope Specifications

Liftcrane - Boom No. B65:505-500
with Mast No. M11:503

Wire Rope Lengths - Tandem Hoist Drums										
Boom Length		Whip Line Drum 6				Hoist Line Drum 2		Hoist Line Drum 3		Total Parts of Line
		1 Part		2 Parts						
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	
54,0	177.2	125	410	180	590	455	1,490	455	1,490	14
60,0	196.9	135	440	200	660	440	1,450	440	1,450	12
66,0	216.5	150	490	215	710	415	1,360	415	1,360	10
72,0	236.2	160	520	235	770	450	1,480	450	1,480	10
78,0	255.9	170	560	255	840	410	1,340	410	1,340	8
84,0	275.6	185	610	270	890	440	1,450	440	1,450	8
90,0	295.3	195	640	290	950	380	1,250	380	1,250	6
96,0	315.0	210	690	305	1,000	400	1,310	400	1,310	6
102,0	334.6	220	720	325	1,060	425	1,390	425	1,390	6
108,0	354.3	—	—	—	—	450	1,480	450	1,480	6
114,0	374.0	—	—	—	—	360	1,180	360	1,180	4
120,0	393.7	—	—	—	—	375	1,230	375	1,230	4
126,0	413.4	—	—	—	—	395	1,290	395	1,290	4

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 and whip 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
VPC-MAX

Liftcrane - Boom No. B65:505-500
with Mast No. M11:503

Wire Rope Lengths - Single Hoist Drum											
Boom Length		Whip Line Drum 2 or 3 or 6				Hoist Line Drum 1		Total Parts of Line	Hoist Line Drum 2		Total Parts of Line
		1 Part		2 Parts					Meters	Feet	
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet		Meters	Feet	
54,0	177.2	125	410	185	600	940	3,080	16	455	1,490	7
60,0	196.9	140	460	200	660	925	3,030	14	440	1,450	6
66,0	216.5	150	490	220	720	950	3,117	13	420	1,370	5
72,0	236.2	165	540	240	780	885	2,900	11	450	1,480	5
78,0	255.9	175	570	255	840	950	3,117	11	410	1,340	4
84,0	275.6	185	610	275	900	945	3,100	10	440	1,450	4
90,0	295.3	200	660	290	950	920	3,020	9	375	1,230	3
96,0	315.0	210	690	310	1,010	880	2,890	8	400	1,310	3
102,0	334.6	225	730	330	1,080	830	2,730	7	425	1,390	3
108,0	354.3	235	770	345	1,130	770	2,530	6	450	1,480	3
114,0	374.0	245	810	365	1,190	700	2,290	5	360	1,180	2
120,0	393.7	260	850	380	1,250	735	2,410	5	375	1,230	2
126,0	413.4	270	890	400	1,310	645	2,110	4	395	1,290	2

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

Wire Rope Specifications

Liftcrane - Boom No. B65:505-500
with Mast No. M11:503

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	36,756		

Wire Rope Specifications

Liftcrane - Boom No. B65:505-500
with Mast No. M11:503

Manitowoc®
MLC300
VPC-MAX

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 6)		
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

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 2 or 3)		
No. Parts of Line	1	2
Maximum Load - kg	16 600	33 300
Maximum Load - lb	36,700	73,520
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

Liftcrane - Boom No. B65:505-500
 with Mast No. M11:503

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) Whip/Auxiliary Line: 28 mm (Drums 2, 3 & 6): 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)

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
Drum 6: (Auxiliary Line)	28 mm wire Rope - 7 Layers - 400 m (1,312 ft)
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.