



Wire Rope Specifications

Liftcrane - Fixed Jib No. 79A on Boom No. 55 or No. 55A
32 mm Hoist Line

18000 With 21000 MAX-ER

Wire Rope Lengths - Tandem Hoist Drums													
Boom Length		Total Parts of Line				Hoist Line Drum 1		Hoist Line Drum 2		Whip Line Drum 3			
		Jib Length - Feet (Meters)								1 Part		2 Part	
Feet	Meters	50 (15.2)	70 (21.3)	90 (27.4)	110 (33.5)	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
140	42.7	24	20	16	16	2600	792	2600	792	575	175	825	251
160	48.8	24	20	16	16	2800	853	2800	853	600	183	900	274
180	54.9	24	20	16	16	3100	945	3100	945	650	198	950	290
200	61.0	20	16	16	12	3100	945	3100	945	675	206	1000	305
220	67.1	20	16	12	12	3100	945	3100	945	725	221	1075	328
240	73.2	16	12	12	12	3100	945	3100	945	775	236	1125	343
260	79.2	12	12	12		3100	945	3100	945	800	244	1175	358
280	85.3	12	12			3100	945	3100	945	850	259	1250	381
300	91.4	12				3100	945	3100	945	875	267	1300	396

Note: Above hoist line lengths are based on tandem drums both reeved to jib load block. Each drum is dead ended in jib point. Total parts of line requires using both drums 1 and 2. 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 Jib Load Block - Two Lead Lines				
No. Parts of Line	12	16	20	24
Maximum Load - Lbs.	585,600	780,800	976,000	1,102,400
Maximum Load - kg	265 620	354 160	442 710	500 000



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Wire Rope Lengths - Single Hoist Drum											
Boom Length		Maximum Parts of Line for Full Hoisting Range				Hoist Line Drum 1		Whip Line Drum 2 or 3			
		Jib Length - Feet (Meters)						1 Part		2 Part	
Feet	Meters	50 (15.2)	70 (21.3)	90 (27.4)	110 (33.5)	Feet	Meters	Feet	Meters	Feet	Meters
140	42.7	18	16	14	12	3700	1128	575	175	825	251
160	48.8	16	14	12	12	3700	1128	600	183	900	274
180	54.9	14	12	12	10	3700	1128	650	198	950	290
200	61.0	12	12	10	10	3700	1128	675	206	1000	305
220	67.1	12	10	10	10	3700	1128	725	221	1075	328
240	73.2	10	10	10	8	3700	1128	775	236	1125	343
260	79.2	10	10	8	8	3700	1128	800	244	1175	358
280	85.3	10	8	8	8	3700	1128	850	259	1250	381
300	91.4	8	8	8	6	3700	1128	875	267	1300	396
320	97.5	8	8	6	6	3700	1128	925	282	1350	411
340	103.6	8	6	6	4	3700	1128	975	297	1425	434

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.

Hoist Reeving for Main Load Block - Single Lead Line					
No. Parts of Line	2	4	6	8	10
Maximum Load - Lbs.	97,600	195,200	292,800	390,400	488,000
Maximum Load - kg	44 270	88 540	132 810	177 080	221 350
No. Parts of Line	12	14	16	18	
Maximum Load - Lbs.	585,600	676,800	765,900	853,300	
Maximum Load - kg	265 620	306 990	347 410	387 050	



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<u>Rotation Resistant Wire Rope</u>	
Hoist Line:	
32 mm (Drum 1):	
Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A06005) Right Hand Lang Lay Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) Approx. Weight = 3.74 Lbs. Per Ft. (5.57 kg/m) No Load Dia. = 1.285 in. (32.64 mm) to 1.304 in. (33.12 mm)	
Hoist or Whip Line:	
32 mm (Drum 2):	
Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A06005) Right Hand Lang Lay Minimum Breaking Strength = 244,000 Lbs. (110 680 kg) Maximum Load = 48,800 Lbs. (22 140 kg) per line Approx. Weight = 3.74 Lbs. Per Ft. (5.57 kg/m) No Load Dia. = 1.285 in. (32.64 mm) to 1.304 in. (33.12 mm)	
Whip Line:	
28 mm (Drum 3):	
Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425) Right Hand Lang Lay Minimum Breaking Strength = 179,400 Lbs. (81 370 kg) Maximum Load = 30,000 Lbs. (13 610 kg) per line Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m) No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm)	

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	32 mm Wire Rope - 9 Layers - 3,330 Ft. (1 015m)
Drum 2: (Hoist or Whip Line)	32 mm Wire Rope - 9 Layers - 3,330 Ft. (1 015m)
Drum 3: (Whip Line)	28 mm Wire Rope - 8 Layers - 1,900 Ft. (579m)
23 Ft. (7m) is deducted from maximum spooling capacities for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 8512-A** and Load Block Reeving folio **No. 2032**.