

Wire Rope Specifications

Liftcrane - Luffing 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 2 or 3			
		Jib Length - Feet (Meters)								1 Part		2 Part	
Feet	Meters	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
160	48.8	16	16	12	12	2700	823	2700	823	1000	305	1500	457
180	54.9	16	16	12		2700	823	2700	823	1025	312	1525	465
200	61.0	16	12	12		2700	823	2700	823	1075	328	1600	488
220	67.1	12	12	12		2700	823	2700	823	1125	343	1650	503
240	73.2	12	12			2700	823	2700	823	1150	351	1725	526
260	79.2	12				2700	823	2700	823	1200	366	1775	541
280	85.3									1225	373	1825	556
300	91.4									1300	396	1900	579
320	97.5									1300	396	1900	579
340	103.6									1300	396	1900	579

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 Reeving for Jib Load Block - Two Lead Lines		
No. Parts of Line	12	16
Maximum Load - Lbs.	585,600	737,700
Maximum Load - kg	265 620	334 620

Wire Rope Lengths - Single Hoist Drum															
Boom Length		Maximum Parts of Line for Full Hoisting Range												Hoist Line Drum 1	
		Jib Length - Feet (Meters)													
Feet	Meters	90 (27.4)	110 (33.5)	130 (39.6)	150 (45.7)	170 (51.8)	190 (57.9)	210 (64.0)	230 (70.1)	250 (76.2)	270 (82.3)	290 (88.4)	310 (94.5)	Feet	Meters
160	48.8	12	12	10	10	10	8	8	6	6	6	4	4	3700	1128
180	54.9	12	10	10	10	8	8	6	6	6	4	4	4	3700	1128
200	61.0	10	10	10	8	8	8	6	6	6	4	4	4	3700	1128
220	67.1	10	10	8	8	8	6	6	6	4	4	4	4	3700	1128
240	73.2	10	8	8	8	6	6	6	4	4	4	4	4	3700	1128
260	79.2	8	8	8	6	6	6	4	4	4	4	4	4	3700	1128
280	85.3	8	8	6	6	6	4	4	4	4	4	4	2	3700	1128
300	91.4	8	6	6	6	4	4	4	4	4	4	2	2	3700	1128
320	97.5	6	6	6	4	4	4	4	4	4	2			3700	1128
340	103.6	6	6	4	4	4	4	4	4	2				3700	1128

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

Hoist Reeving for Jib Load Block - Single Lead Line						
No. Parts of Line	2	4	6	8	10	12
Maximum Load - Lbs.	97,600	195,200	292,800	390,400	488,000	579,900
Maximum Load - kg	44 270	88 540	132 810	177 080	221 350	263 040

Note: Hoist and whip line lengths in above tables 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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Wire Rope Specifications
<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.**