

Wire Rope Specifications

Liftcrane - Boom No. 55 or No. 55A

**18000 With
21000 MAX-ER**

32 mm Hoist Line

Wire Rope Lengths - Tandem Drums										
Boom Length		Whip Line - Drum 3				Hoist Line Drum 1		Hoist Line Drum 2		Total Parts of Line
		1 Part		2 Part						
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	
140	42.7	325	99	475	145	2500	762	2500	762	32
160	48.8	375	114	550	168	2800	853	2800	853	32
180	54.9	400	122	600	183	3200	975	3200	975	32
200	61.0	450	137	675	206	3200	975	3200	975	28
220	67.1	500	152	725	221	3400	1036	3400	1036	28
240	73.2	525	160	775	236	3400	1036	3400	1036	24
260	79.2	575	175	850	259	3400	1036	3400	1036	20
280	85.3	600	183	900	274	3400	1036	3400	1036	20
300	91.4	650	198	975	297	3400	1036	3400	1036	16
320	97.5	700	213	1025	312	3400	1036	3400	1036	12
340	103.6	725	221	1075	328	3400	1036	3400	1036	12
360	109.7	775	236	1150	351	3400	1036	3400	1036	12

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 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 Main Load Block - Two Lead Lines				
No. Parts of Line	8	12	16	20
Maximum Load - Lbs.	390,400	585,600	780,800	976,000
Maximum Load - kg	177 080	265 620	354 160	442 710
No. Parts of Line	24	28	32	
Maximum Load - Lbs.	1,171,200	1,366,400	1,543,300	
Maximum Load - kg	531 250	619 790	700 000	



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Wire Rope Lengths - Single Drum								
Boom Length		Whip Line - Drum 2 or 3				Hoist Line - Drum 1		
		1 Part		2 Part		Ft.	Meters	Maximum Parts of Line for Full Hoisting Range
Ft.	Meters	Ft.	Meters	Ft.	Meters			
140	42.7	325	99	475	145	3700	1128	24
160	48.8	375	114	550	168	3700	1128	20
180	54.9	400	122	600	183	3700	1128	18
200	61.0	450	137	675	206	3700	1128	16
220	67.1	500	152	725	221	3700	1128	14
240	73.2	525	160	775	236	3700	1128	14
260	79.2	575	175	850	259	3700	1128	12
280	85.3	600	183	900	274	3700	1128	12
300	91.4	650	198	975	297	3700	1128	10
320	97.5	700	213	1025	312	3700	1128	10
340	103.6	725	221	1075	328	3700	1128	8
360	109.7	775	236	1150	351	3700	1128	8
380	115.8	800	244	1200	366	3700	1128	8
400	121.9	850	259	1275	389	3700	1128	8
420	128.0	900	274	1325	404	3700	1128	6
440	134.1	925	282	1375	419	3700	1128	6

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	12
Maximum Load - Lbs.	97,600	195,200	292,800	390,400	488,000	585,600
Maximum Load - kg	44 270	88 540	132 810	177 080	221 350	265 620
No. Parts of Line	14	16	18	20	22	24
Maximum Load - Lbs.	683,200	773,600	861,900	948,400	1,033,200	1,116,300
Maximum Load - kg	309 890	350 900	390 950	430 190	468 650	506 350

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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**.