

Wire Rope Specifications

Liftcrane - Boom No. 55 or No. 55A

32 mm Hoist Line

Wire Rope Lengths - Tandem Hoist 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	
120	36.6	300	91	425	130	1900	579	1900	579	28
140	42.7	325	99	475	145	1900	579	1900	579	24
160	48.8	375	114	550	168	2200	671	2200	671	24
180	54.9	400	122	600	183	2200	671	2200	671	20
200	61.0	450	137	675	206	2300	701	2300	701	20
220	67.1	500	152	725	221	2300	701	2300	701	16
240	73.2	525	160	775	236	2300	701	2300	701	16
260	79.2	575	175	850	259	2400	732	2400	732	16
280	85.3	600	183	900	274	2600	792	2600	792	16
300	91.4	650	198	975	297	2600	792	2600	792	12
320	97.5	700	213	1025	312	2600	792	2600	792	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
Maximum Load - Lbs.	390,400	585,600	780,800
Maximum Load - kg	177 080	265 620	354 160
No. Parts of Line	20	24	28
Maximum Load - Lbs.	976,000	1,171,200	1,322,800
Maximum Load - kg	442 710	531 250	600 000

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Wire Rope Lengths - Single Hoist 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			
120	36.6	300	91	425	130	3700	1128	28
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

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	14
Maximum Load - Lbs.	97,600	195,200	292,800	390,400	488,000	585,600	683,200
Maximum Load - kg	44 270	88 540	132 810	177 080	221 350	265 620	309 890
No. Parts of Line	16	18	20	22	24	26	28
Maximum Load - Lbs.	773,600	861,900	948,400	1,033,200	1,116,300	1,197,700	1,277,500
Maximum Load - kg	350 900	390 950	430 190	468 650	506 350	543 270	579 400

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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**.