

Wire Rope Specifications

Liftcrane - Boom No. 55 or No. 55A

28 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	
120	36.6	300	91	425	130	1900	579	1900	579	28
140	42.7	325	99	475	145	2200	671	2200	671	28
160	48.8	375	114	550	168	2500	762	2500	762	28
180	54.9	400	122	600	183	2800	853	2800	853	28
200	61.0	450	137	675	206	2800	853	2800	853	24
220	67.1	500	152	725	221	3000	914	3000	914	24
240	73.2	525	160	775	236	3200	975	3200	975	24
260	79.2	575	175	850	259	3200	975	3200	975	20
280	85.3	600	183	900	274	3200	975	3200	975	20
300	91.4	650	198	975	297	3200	975	3200	975	16
320	97.5	700	213	1025	312	3200	975	3200	975	16

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.	287,000	430,500	574,000
Maximum Load - kg	130 180	195 270	260 360
No. Parts of Line	20	24	28
Maximum Load - Lbs.	717,600	861,000	1,004,600
Maximum Load - kg	325 500	390 540	455 600

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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			
120	36.6	300	91	425	130	3900	1189	30
140	42.7	325	99	475	145	4500	1372	30
160	48.8	375	114	550	168	4800	1463	28
180	54.9	400	122	600	183	4800	1463	24
200	61.0	450	137	675	206	4800	1463	22
220	67.1	500	152	725	221	4800	1463	20
240	73.2	525	160	775	236	4800	1463	18
260	79.2	575	175	850	259	4800	1463	16
280	85.3	600	183	900	274	4800	1463	14
300	91.4	650	198	975	297	4800	1463	14
320	97.5	700	213	1025	312	4800	1463	12

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.	71,700	143,500	215,200	287,000	358,800
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750
No. Parts of Line	12	14	16	18	20
Maximum Load - Lbs.	430,500	502,300	568,800	633,700	697,300
Maximum Load - kg	195 270	227 840	258 000	287 440	316 290
No. Parts of Line	22	24	26	28	30
Maximum Load - Lbs.	759,600	820,700	880,600	939,300	996,800
Maximum Load - kg	344 550	372 260	399 430	426 060	452 140

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<u>Rotation Resistant Wire Rope</u>
Hoist Line:
28 mm (Drum 1):
Dyform 34MAX Wire Rope with Pad Eye (MCC Part No. 719425)
Right Hand Lang Lay
Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)
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)
Hoist or Whip Line:
28 mm (Drum 2):
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 = 35,800 Lbs. (16 240 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)
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)	28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m)
Drum 2: (Hoist or Whip Line)	28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m)
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**.