

Wire Rope Specifications

Liftcrane - Luffing Jib No. 44 on Boom No. 55-79A
28 mm Hoist Line

Wire Rope Lengths - Single Hoist Drum												
Boom Length		Parts of Line									Hoist Line Drum 1	
		Luffing Jib Length - Feet (Meters)										
Feet	Meters	70 (21.3)	80 (24.4)	90 (27.4)	100 (30.5)	110 (33.5)	120 (36.6)	130 (39.6)	140 (42.7)	150 (45.7)	Feet	Meters
140	42.7	16	16	14	14	12	10	10	10	8	4200	1280
160	48.8	16	16	14	14	12	10	10	10	8	4200	1280
180	54.9	14	14	12	12	10	10	10	10	8	4200	1280
200	61.0	14	12	12	12	10	10	10	8	8	4200	1280
220	67.1	12	12	12	10	10	10	8	8	8	4200	1280
240	73.2	12	10	10	10	8	8	8	8	6	4200	1280
260	79.2	10	10	8	8	8	8	6	6	6	4200	1280
280	85.3	8	8	8	8	6	6	6	6	6	4200	1280

Boom Length		Luffing Jib Length - Feet (Meters)									Hoist Line Drum 1	
		160 (48.8)	170 (51.8)	180 (54.9)	190 (57.9)	200 (61.0)	210 (64.0)	220 (67.1)	230 (70.1)	240 (73.2)		
Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	
140	42.7	8	8	6	6	6	6	6	4	4	4200	1280
160	48.8	8	8	6	6	6	6	6	4	4	4200	1280
180	54.9	8	8	6	6	6	6	6	4	4	4200	1280
200	61.0	8	6	6	6	6	6	4	4	4	4200	1280
220	67.1	6	6	6	6	6	4	4	4	4	4200	1280
240	73.2	6	6	6	6	4	4	4	4	4	4200	1280
260	79.2	6	6	4	4	4	4	4	4	4	4200	1280
280	85.3	6	4	4	4	4	4	4	4	4	4200	1280

Note: Hoist line lengths in above table 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 - Single Lead Line								
No. Parts of Line	2	4	6	8	10	12	14	16
Maximum Load - Lbs.	71,700	143,500	215,200	287,000	358,800	426,400	492,600	551,200
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750	193 410	223 440	250 000

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WIRE ROPE LENGTHS					
Boom and Luffing Jib Length		Whip Line Drum No. 2 or No. 3			
		1 Part		2 Part	
Ft.	Meters	Ft.	Meters	Ft.	Meters
210	64.0	480	146	725	221
220	67.1	500	152	750	229
230	70.1	520	158	775	236
240	73.2	540	165	825	251
250	76.2	560	171	850	259
260	79.2	580	177	875	267
270	82.3	600	183	900	274
280	85.3	620	189	925	282
290	88.4	640	195	950	290
300	91.4	660	201	1000	305
310	94.5	680	207	1025	312
320	97.5	700	213	1050	320
330	100.6	720	219	1075	328
340	103.6	740	226	1100	335
350	106.7	760	232	1125	343
360	109.7	780	238	1175	358
370	112.8	800	244	1200	366
380	115.8	820	250	1225	373
390	118.9	840	256	1250	381
400	121.9	860	262	1275	389
410	125.0	880	268	1325	404
420	128.0	900	274	1350	411
430	131.1	920	280	1375	419
440	134.1	940	287	1400	427
450	137.2	960	293	1425	434
460	140.2	980	299	1450	442
470	143.3	1000	305	1500	457
480	146.3	1020	311	1525	465
490	149.4	1040	317	1550	472
500	152.4	1060	323	1575	480
510	155.5	1080	329	1600	488
520	158.5	1100	335	1625	495

Note: Whip line lengths given in table will allow hook to touch ground. When hook 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 hook travel below ground is required.

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Wire Rope Specifications	
<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)	
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)	
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. 2040**.