

Wire Rope Specifications

Liftcrane - Luffing Jib No. 79A on Boom No. 55 or No. 55A
32 mm Hoist Line

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)	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
160	48.8							1000	305	1500	457
180	54.9							1025	312	1525	465
200	61.0	16	12	2700	823	2700	823	1025	312	1525	465

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	594,900
Maximum Load - kg	265 620	269 840

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	10	10	8	8	8	6	6	6	6	4	4	3300	1006
180	54.9	10	10	10	8	8	8	6	6	6	4	4	4	3500	1067
200	61.0	10	10	10	8	8	8							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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<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**.