

Wire Rope Specifications

16000 MAX-ER

Liftcrane - Luffing Jib No. 59 on Boom No. 58HL

Boom Length		Maximum Required Parts of Line										
		Luffing Jib Length Feet (Meters)										
Feet	Meters	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
137.8	42,0	12	12	10	8	8	6	6	6	4	4	4
157.5	48,0	12	10	10	8	8	6	6	4	4	4	4
177.2	54,0	12	10	10	8	8	6	6	4	4	4	4
196.9	60,0	10	10	8	8	6	6	4	4	4	4	4
216.5	66,0	10	8	8	6	6	6	4	4	4	4	2
236.2	72,0	8	8	6	6	6	4	4	4	4	4	2
255.9	78,0	8	6	6	6	4	4	4	4	4	2	2
275.6	84,0	6	6	6	4	4	4	4	4	2	2	2
295.3	90,0	6	4	4	4	4	4	4	2	2	2	2
315.0	96,0	4	4	4	4	4	4	2	2	2	2	2

Wire Rope Lengths (Includes All Luffing Jib Lengths)							
Boom Length		Hoist Line Drum 1		Whip Line Drum 2			
				1 Part		2 Part	
Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
137.8	42,0	3150	960	900	274	1300	396
157.5	48,0	3150	960	950	290	1400	427
177.2	54,0	3400	1036	1000	305	1450	442
196.9	60,0	3400	1036	1000	305	1500	457
216.5	66,0	3400	1036	1050	320	1550	472
236.2	72,0	3400	1036	1100	335	1600	488
255.9	78,0	3400	1036	1150	351	1650	503
275.6	84,0	3400	1036	1200	366	1750	533
295.3	90,0	3400	1036	1200	366	1800	549
315.0	96,0	3400	1036	1250	381	1850	564

Note: Hoist and whip line lengths given in 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.

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Hoist Reeving for Main Load Block						
No. Parts of Line	2	4	6	8	10	12
Maximum Load - lb	71,700	143,500	215,200	287,000	358,800	408,900
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750	185 470

Wire Rope Specifications
<u>Rotation Resistant Wire Rope</u> Hoist Line: 28 mm (Drum 1): Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A12083) Right Hand Lang Lay Minimum Breaking Strength = 179,400 lb (81 370 kg) Approx. Weight = 2.80 lb per ft (4,17 kg/m) No Load Dia. = 1.135 in. (28,83 mm) to 1.145 in. (29,08 mm) Whip Line: 28 mm (Drum 2): Dyform 34MAX Wire Rope With Spelter Button and Pad Eye (MCC Part No. A12083) Right Hand Lang Lay Minimum Breaking Strength = 179,400 lb (81 370 kg) Maximum Load = 30,000 lb (13 610 kg) per line Approx. Weight = 2.80 lb per ft (4,17 kg/m) No Load Dia. = 1.135 in. (28,83 mm) to 1.145 in. (29,08 mm)

Maximum Spooling Capacities
Drum 1: 28 mm Wire Rope - 11 Layers - 3,801 ft (1 159 m) (Hoist Line)
Drum 2: 28 mm Wire Rope - 7 Layers - 1,610 ft (491 m) (Whip Line)
21 ft (6 m) is deducted from maximum spooling capacities for 3 dead wraps per drum.

Refer to Drum and Lagging chart **No. 8673-A** and Load Block Reeving in Operator's Manual.