

Wire Rope Specifications

Liftcrane - Boom No. 58 HL

16000 MAX-ER

Wire Rope Lengths								
Boom Length		Whip Line Drum 2 or 3				Hoist Line Drum 1		
		1 Part		2 Part		Feet	Meters	Total Parts of Line
Feet	Meters	Feet	Meters	Feet	Meters			
137.8	42,0	350	107	500	152	3550	1 082	24
157.5	48,0	390	119	560	171	3700	1 128	22
177.2	54,0	430	131	620	189	3800	1 158	20
196.9	60,0	470	143	680	207	3800	1 158	18
216.5	66,0	510	155	740	226	3800	1 158	16
236.2	72,0	550	168	800	244	3800	1 158	14
255.9	78,0	580	177	860	262	3900	1 189	14
275.6	84,0	620	189	910	277	3900	1 189	12
295.3	90,0	660	201	970	296	3900	1 189	10
315.0	96,0	700	213	1030	314	3900	1 189	8
334.6	102,0	740	226	1090	332	3900	1 189	8
354.3	108,0	780	238	1150	351	3900	1 189	6
374,0	114,0	820	250	1210	369	3900	1 189	6
393,7	120,0	860	262	1270	387	3900	1 189	6

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.

Hoist Reeving for Main Load Block					
No. Parts of Line	2	4	6	8	10
Maximum Load - lb	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 - lb	430,500	502,300	574,000	645,800	711,400
Maximum Load - kg	195 270	227 840	260 360	292 930	322 690
No. Parts of Line	22	24			
Maximum Load - lb	775,000	837,400			
Maximum Load - kg	351 530	379 800			

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<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)	
Auxiliary Line:	
1 in. (Drum 3):	
Dyform 34MAX Wire Rope (MCC Part No. 719436)	
Right Hand Lang Lay	
Minimum Breaking Strength = 153,800 lb (69 760 kg)	
Maximum Load = 30,000 lb (13 610 kg) per line	
Approx. Weight = 2.26 lb per ft (3,36 kg/m)	
No Load Dia. = 1.020 in. (25,91 mm) to 1.036 in. (26,31 mm)	

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 11 Layers - 3,801 ft (1 159 m)
Drum 2: (Whip Line)	28 mm Wire Rope - 7 Layers - 1,610 ft (491 m)
Drum 3: (Auxiliary Line)	1 in. Wire Rope - 8 Layers - 1,377 ft (420 m)
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.