

Wire Rope Specifications

16000 SERIES 1, 2, 3

Liftcrane - Boom No. 58 HL with 23 ft (7 m)
Extended Upper Boom Point

Wire Rope Lengths						
Boom Length		Whip Line Drum 2 or 3		Hoist Line Drum 1		
		1 Part		Feet	Meters	Total Parts of Line
Feet	Meters	Feet	Meters			
137.8	42,0	400	122	1200	366	6
157.5	48,0	430	131	1350	412	6
177.2	54,0	470	144	1450	442	6
196.9	60,0	510	156	1600	488	6
216.5	66,0	550	168	1750	533	6
236.2	72,0	590	180	1900	579	6
255.9	78,0	630	192	2000	610	6
275.6	84,0	670	204	2150	655	6
295.3	90,0	710	216	2300	701	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
Maximum Load - lb	71,700	143,500	215,200
Maximum Load - kg	32 520	65 090	97 600

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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.