

Wire Rope Specifications

16000 SERIES 4

Liftcrane - Boom No. 58WA with Heavy Lift Top

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			
98.4	30,0	260	79	380	116	2750	840	26
108.3	33,0	280	85	420	128	2800	855	24
118.1	36,0	300	91	440	134	2800	855	22
128.0	39,0	320	98	480	146	3000	920	22
137.8	42,0	340	104	500	152	3000	920	20
147.6	45,0	360	110	530	162	3000	920	18
157.5	48,0	380	116	560	171	3050	930	18
167.3	51,0	400	122	580	177	3050	930	16
177.2	54,0	420	128	610	186	3100	945	16
187.0	57,0	440	134	640	195	3100	945	14
196.9	60,0	460	140	670	204	3100	945	14
206.7	63,0	480	146	700	213	3150	960	14
216.5	66,0	500	152	730	223	3150	960	12
226.4	69,0	520	158	760	232	3150	960	12
236.2	72,0	540	165	790	241	3150	960	12
246.1	75,0	560	171	820	250	3250	995	12
255.9	78,0	580	177	850	259	3250	995	10
265.8	81,0	600	183	880	268	3250	995	10
275.6	84,0	620	189	910	277	3250	995	10
285.4	87,0	640	195	940	287	3250	995	10
295.3	90,0	660	201	970	296	3250	995	8

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	26		
Maximum Load - lb	775,000	837,400	881,900		
Maximum Load - kg	351 530	379 840	400 000		

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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.