

Wire Rope Specifications

Liftcrane - Boom No. 76

Wire Rope Lengths								
Boom or Boom and Jib Length		Whip Line - Drum 1 or 3 (Front or Auxiliary Drum)				Hoist Line - Drum 2 (Rear Drum)		Total Parts of Line
		1 Part		2 Parts				
Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	
65.6	20,0	190	58	270	82	1100	335	14
75.5	23,0	210	64	300	91	1200	366	13
85.3	26,0	230	70	330	101	1200	366	12
95.1	29,0	250	76	360	110	1225	373	11
105.0	32,0	270	82	390	119	1250	381	10
114.8	35,0	290	88	420	128	1350	411	10
124.7	38,0	310	94	450	137	1350	411	9
134.5	41,0	330	101	480	146	1425	434	9
144.4	44,0	350	107	510	155	1425	434	8
154.2	47,0	370	113	540	165	1475	450	8
164.0	50,0	390	119	570	174	1475	450	7
173.9	53,0	410	125	600	183	1475	450	7
183.7	56,0	430	131	630	192	1475	450	6
193.6	59,0	450	137	660	201	1475	450	6
203.4	62,0	470	143	690	210	1475	450	5
213.3	65,0	490	149	720	219	1475	450	5
223.1	68,0	510	155	750	229	1475	450	5
232.9	71,0	530	162	780	238	1475	450	4
242.8	74,0	550	168	810	247	1475	450	4
252.6	77,0	570	174	840	256	1475	450	4
262.5	80,0	590	180	870	265	1475	450	3
272.3	83,0	610	186	900	274	1475	450	3
282.2	86,0	630	192	930	283	1475	450	3
292.0	89,0	650	198	960	293	1475	450	3
301.8	92,0	670	204	990	302	—	—	—
311.7	95,0	690	210	1020	311	—	—	—
321.5	98,0	710	216	—	—	—	—	—

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.

Maximum wire rope length allowed on Drum 3 (Auxiliary Drum) is 770 ft (235 m)

Wire Rope Specifications

Liftcrane - Boom No. 76

Hoist Reeving for Main Load Block							
No. Parts of Line	1	2	3	4	5	6	7
Maximum Load - lb	31,500	63,000	94,500	126,000	157,500	189,000	220,500
Maximum Load - kg	14 290	28 580	42 860	57 150	71 440	85 730	100 020
No. Parts of Line	8	9	10	11	12	13	14
Maximum Load - lb	252,000	283, 500	315,000	346,500	378,000	409,500	441,000
Maximum Load - kg	114 310	128 590	142 880	157 170	171 460	185 750	200 030

Wire Rope Specifications
<u>Rotation Resistant Wire Rope</u> Hoist Line: 26 mm (Drum 2): Dyform 34MAX Wire Rope with Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength = 158,600 lb (71 940 kg) Approx. Weight = 2.39 lb per ft (3,56 kg/m) No Load Dia. = 1.034 in. (26,26 mm) to 1.054 in. (26,77 mm) Whip Line: 26 mm (Drum 1): Dyform 34MAX Wire Rope with Pad Eye (MCC Part No. 719432) Right Hand Lang Lay Minimum Breaking Strength = 158,600 lb (71 940 kg) Maximum Load = 31,500 lb (14 290 kg) per line Approx. Weight = 2.39 lb per ft (3,56 kg/m) No Load Dia. = 1.034 in. (26,26 mm) to 1.054 in. (26,77 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 = 20,000 lb (9 070 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)

Wire Rope Specifications

Liftcrane - Boom No. 76

Maximum Spooling Capacities	
Drum 2: (Rear - Hoist Line)	26 mm Wire Rope - 6 Layers - 1,310 ft (399 m)
Drum 1: (Front - Whip Line)	26 mm Wire Rope - 6 Layers - 1,310 ft (399 m)
Drum 3: (Auxiliary Line)	1 in. Wire Rope - 8 Layers - 684 ft (208 m)
18 ft (5,5 m) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2. 20 ft (6,1 m) is deducted from maximum spooling capacity for 3 dead wraps on drum 3.	

Refer to Drum and Lagging chart **No. 8791-A** and Load Block Reeving in Operator's Manual.