

Wire Rope Specifications

MLC150-1

Liftcrane - Boom No. B10:350

Wire Rope Lengths - Hoist Line							
Boom Length		Hoist Line - Drum 1 (Front Drum)		Total Parts of Line	Hoist Line - Drum 2 (Front Drum)		Total Parts of Line
Meters	Feet	Meters	Feet		Meters	Feet	
15,0	49.2	230	740	12	225	730	12
18,0	59.1	230	740	10	225	730	10
21,0	68.9	235	770	9	235	760	9
24,0	78.7	270	870	9	240	780	8
27,0	88.6	270	870	8	235	770	7
30,0	98.4	260	850	7	230	750	6
33,0	108.3	250	820	7	250	820	6
36,0	118.1	275	890	7	235	760	5
39,0	128.0	290	950	6	250	820	5
42,0	137.8	315	1020	6	230	740	4
45,0	147.6	290	940	5	245	790	4
48,0	157.5	305	1000	5	255	830	4
51,0	167.3	325	1060	5	220	710	3
54,0	177.2	285	930	4	230	750	3
57,0	187.0	300	980	4	245	790	3
60,0	196.9	315	1030	4	255	830	3
63,0	206.7	270	870	3	205	660	2
66,0	216.5	280	910	3	215	690	2
69,0	226.4	290	950	3	220	720	2
72,0	236.2	305	990	3	230	750	2
75,0	246.1	240	780	2	240	780	2
78,0	255.9	250	810	2	250	810	2

Wire Rope Lengths - Whip Line							
Boom Length		Whip Line - Drum 2 (Rear Drum)		Total Parts of Line	Whip Line - Drum 3 (Auxiliary Drum)		Total Parts of Line
Meters	Feet	Meters	Feet		Meters	Feet	
15,0	49.2	65	210	2	65	200	2
18,0	59.1	75	240	2	75	230	2
21,0	68.9	85	270	2	80	260	2
24,0	78.7	95	300	2	90	290	2
27,0	88.6	105	330	2	100	320	2
30,0	98.4	110	360	2	110	350	2
33,0	108.3	120	380	2	120	380	2
36,0	118.1	125	410	2	125	410	2
39,0	128.0	135	440	2	135	440	2
42,0	137.8	145	470	2	145	460	2
45,0	147.6	155	500	2	150	490	2
48,0	157.5	165	530	2	160	520	2
51,0	167.3	175	560	2	170	550	2
54,0	177.2	180	590	2	180	580	2
57,0	187.0	190	620	2	190	610	2
60,0	196.9	200	650	2	135	430	1
63,0	206.7	210	680	2	140	450	1
66,0	216.5	220	710	2	145	470	1
69,0	226.4	230	740	2	150	490	1
72,0	236.2	235	760	2	160	510	1
75,0	246.1	245	790	2	165	530	1
78,0	255.9	250	820	2	170	550	1

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 - Single Lead Line (Drum 1 or 2)						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	13 430	26 860	40 290	53 720	67,150	80,580
Maximum Load - lb	29,600	59,200	88,800	118,400	148,000	177,600
Maximum Load per Part of Line - kg	13 430	13 430	13 430	13 430	13 430	13 430
Maximum Load per Part of Line - lb	29,600	29,600	29,600	29,600	29,600	29,600
No. Parts of Line	7	8	9	10	11	12
Maximum Load - kg	94 010	107 440	120 870	134 300	147 730	150 000
Maximum Load - lb	207,200	236,800	266,400	296,000	325,600	330,600
Maximum Load per Part of Line - kg	13 430	13 430	13 430	13 430	13 430	12 500
Maximum Load per Part of Line - lb	29,600	29,600	29,600	29,600	29,600	27,550

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 1 or 2)		
No. Parts of Line	1	2
Maximum Load - kg	13 430	26 860
Maximum Load - lb	29,600	59,200
Maximum Load per Part of Line - kg	13 430	13 430
Maximum Load per Part of Line - lb	29,600	29,600

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 3)		
No. Parts of Line	1	2
Maximum Load - kg	9 070	18 140
Maximum Load - lb	20,000	40,000
Maximum Load per Part of Line - kg	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000

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<p><u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u></p> <p>Hoist Line: 26 mm (Drum 1): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 67 130 kg (148,000 lb) Approx. Weight = 3,41 kg/m (2.28 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123747, 80120441</p> <p>Whip / Auxiliary Line: 26 mm (Drum 2 or Drum 3): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 67 130 kg (148,000 lb) Approx. Weight = 3,41 kg/m (2.28 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123747, 80120441</p> <p><u>Optional Wire Rope - 3.5:1 Safety Factor</u></p> <p>Hoist Line: 26 mm (Drum 1): Wire Rope with Spelter Button Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123752</p> <p>Whip / Auxiliary Line: 26 mm (Drum 2 and Drum 3): Wire Rope with Spelter Button Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) No Load Dia = 26,44 mm (1.041 in) to 26,78 mm (1.054 in) Ref: 80123752</p>

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Maximum Spooling Capacities	
Drum 1: (Front - Hoist Line)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 2: (Rear - Auxiliary Line)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 3: (Auxiliary Line)	26 mm Wire Rope - 4 Layers - 175 m (575 ft)
7 m (23 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2.	
5 m (15 ft) is deducted from maximum spooling capacities for 3 dead wraps on drum 3.	

Refer to Drum and Lagging chart **No. 9830-A** and Load Block Reeving in the Operator Manual.

Refer to Block Overhaul Weights chart **No. 9825-A** for minimum weight required for block lowering.

Warning: Free fall operation is limited to 6 710 kg (14,800 lb) per part of line when lowering load with free fall clutch/brake pedal. Hydraulic power shall be used for full line pull. *Permanent brake damage could occur allowing the load to lower uncontrolled.*