

Wire Rope Specifications

MLC150-1

Liftcrane - Boom No. B20:350

Wire Rope Lengths - Hoist Line										
Boom Length		Hoist Line - Drum 1		Total Parts of Line	Hoist Line - Drum 2		Total Parts of Line	Hoist Line - Drum 3		Total Parts of Line
Meters	Feet	Meters	Feet		Meters	Feet		Meters	Feet	
15,0	49.2	125	410	6	125	410	6	125	400	6
18,0	59.1	150	480	6	150	480	6	145	470	6
21,0	68.9	170	550	6	170	550	6	165	540	6
24,0	78.7	190	610	6	190	610	6	190	610	6
27,0	88.6	210	680	6	210	680	6	180	580	5
30,0	98.4	230	750	6	230	750	6	165	540	4
33,0	108.3	250	820	6	250	820	6	180	590	4
36,0	118.1	275	890	6	235	770	5	160	510	3
39,0	128.0	290	950	6	250	820	5	170	550	3
42,0	137.8	315	1020	6	230	740	4	180	590	3
45,0	147.6	290	940	5	245	790	4	150	480	2
48,0	157.5	305	1000	5	210	680	3	160	510	2
51,0	167.3	325	1060	5	220	720	3	165	540	2
54,0	177.2	285	930	4	235	760	3	175	570	2
57,0	187.0	300	980	4	245	800	3	185	600	2
60,0	196.9	315	1030	4	255	830	3	135	430	1
63,0	206.7	270	870	3	205	660	2	140	450	1
66,0	216.5	280	910	3	215	690	2	145	470	1

Note: Hoist 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 Load Block - 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

Hoist Reeving for Load Block - Drum 3						
No. Parts of Line	1	2	3	4	5	6
Maximum Load - kg	9 070	18 140	27 210	36 280	45 350	54 430
Maximum Load - lb	20,000	40,000	60,000	80,000	100,000	120,000
Maximum Load per Part of Line - kg	9 070	9 070	9 070	9 070	9 070	9 070
Maximum Load per Part of Line - lb	20,000	20,000	20,000	20,000	20,000	20,000

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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u>	
Hoist Line:	
26 mm (Drums 1, 2, & 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	
<u>Optional Wire Rope - 3.5:1 Safety Factor</u>	
Hoist Line:	
26 mm (Drums 1, 2, & 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	

Maximum Spooling Capacities	
Drum 1: (Front)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 2: (Rear)	26 mm Wire Rope - 5 Layers - 344 m (1,130 ft)
Drum 3: (Auxiliary)	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.*