

Wire Rope Specifications

MLC90A-1

Liftcrane - Boom No. B10:290

Wire Rope Lengths									
Boom Length		Whip Line - Drum 1 or 3 (Front or Auxiliary Drum)		Hoist Line - Drum 1 (Front Drum)		Total Parts of Line	Hoist Line - Drum 2 (Rear Drum)		Total Parts of Line
Meters	Feet	Meters	Feet	Meters	Feet		Meters	Feet	
19,0	62.3	50	170	175	570	7	175	570	7
22,0	72.2	60	190	175	570	6	175	570	6
25,0	82.0	65	210	170	560	5	195	640	6
28,0	91.9	70	230	160	520	4	190	620	5
31,0	101.7	75	250	175	570	4	205	670	5
34,0	111.5	80	270	155	500	3	190	620	4
37,0	121.4	90	290	165	540	3	205	670	4
40,0	131.2	95	310	177	581	3	214	702	4
43,0	141.1	100	330	145	470	2	190	620	3
46,0	150.9	105	350	155	500	2	200	650	3
49,0	160.8	115	370	165	540	2	210	690	3
52,0	170.6	120	390	170	560	2	170	560	2
55,0	180.4	125	410	177	581	2	177	581	2
58,0	190.3	130	420	130	420	1	190	620	2
61,0	200.1	135	440	135	440	1	200	650	2

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
Maximum Load - kg	12 520	25 040	37 560	50 080
Maximum Load - lb	27,600	55,200	82,800	110,400
Maximum Load per Part of Line - kg	12 520	12 520	12 520	12 520
Maximum Load per Part of Line - lb	27,600	27,600	27,600	27,600
No. Parts of Line	5	6	7	
Maximum Load - kg	62 600	75 120	79 330	
Maximum Load - lb	138,000	165,600	174,900	
Maximum Load per Part of Line - kg	12 520	12 520	11 330	
Maximum Load per Part of Line - lb	27,600	27,600	24,986	

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 1)	
No. Parts of Line	1
Maximum Load - kg	12 520
Maximum Load - lb	27,600
Maximum Load per Part of Line - kg	12 520
Maximum Load per Part of Line - lb	27,600

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

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<u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u> Hoist Line: 26 mm (Drum 2): 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) Whip / Auxiliary 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) Whip/Auxiliary Line: 22 mm (Drum 3): Wire Rope with Spelter Button Right Hand Lang Lay Minimum Breaking Strength = 49 150 kg (108,300 lb) Approx. Weight = 2,40 kg/m (1.61 lb/ft) <u>Optional Wire Rope - 3.5:1 Safety Factor</u> Hoist Line: 26 mm (Drum 2): Wire Rope with Spelter Button and Pad Eye Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) Whip / Auxiliary Line: 26 mm (Drum 1): Wire Rope with Spelter Button and Pad Eye Right Hand Regular Lay Minimum Breaking Strength = 48 170 kg (106,200 lb) Approx. Weight = 2,89 kg/m (1.94 lb/ft) Whip/Auxiliary Line: 22 mm (Drum 3): Wire Rope with Spelter Button Right Hand Regular Lay Minimum Breaking Strength = 36 100 kg (79,600 lb) Approx. Weight = 2,10 kg/m (1.41 lb/ft)

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Maximum Spooling Capacities	
Drum 2: (Rear - Hoist Line)	26 mm Wire Rope - 4 Layers - 195 m (641 ft)
Drum 1: (Front - Auxiliary Line)	26 mm Wire Rope - 4 Layers - 195 m (641 ft)
Drum 3: (Auxiliary Line)	22 mm Wire Rope - 4 Layers - 143 m (471 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. 9741-A** and Load Block Reeving in the Operator Manual.

Refer to Block Overhaul Weights chart **No. 9739-A** for minimum weight required for block lowering.

Warning: Free fall operation is limited to 6 260 kg (13,800 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.*