

# Wire Rope Specifications

## MLC90A-1

Jib No. 117 on  
Boom No. B10:290

Wire Rope Lengths - Single Hoist Drum (includes all jib lengths)					
Boom Length		Hoist Line Drum 1 or 2		Hoist Line Drum 3	
Meters	Feet	Meters	Feet	Meters	Feet
19,0	62.3	85	280	85	280
22,0	72.2	95	310	90	300
25,0	82.0	100	330	95	310
28,0	91.9	105	340	105	340
31,0	101.7	110	360	110	360
34,0	111.5	115	380	115	380
37,0	121.4	125	410	120	390
40,0	131.2	130	430	125	410
43,0	141.1	135	440	135	440
46,0	150.9	140	460	140	460
49,0	160.8	145	480	145	480
52,0	170.6	155	510	150	490
55,0	180.4	160	520	155	510
58,0	190.3	165	540	160	525

**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 - Single Lead Line (Drum 1 or 2)	
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 Main 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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<p><u>Rotation Resistant Wire Rope - 5:1 Safety Factor</u></p> <p><b>Hoist Line:</b> <b>26 mm</b> (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)</p> <p><b>Auxiliary Line:</b> <b>26 mm</b> (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)</p> <p><b>Auxiliary Line:</b> <b>22 mm</b> (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)</p> <p><u>Optional Wire Rope - 3.5:1 Safety Factor</u></p> <p><b>Hoist Line:</b> <b>26 mm</b> (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)</p> <p><b>Auxiliary Line:</b> <b>26 mm</b> (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)</p> <p><b>Auxiliary Line:</b> <b>22 mm</b> (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)</p>

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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.*