

# Wire Rope Specifications

## MLC165-1

Boom No. 74A  
Jib No. 134 with 3 810 mm (12 ft 6 in.) Strut

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		Meters	Feet	
Meters	Feet	Meters	Feet	Meters	Feet			Meters
15,0	49.2	45*	150*	65*	210*	250	820	14
18,0	59.1	55*	180*	75*	240*	275	910	13
21,0	68.9	60*	190*	85*	280*	295	970	12
24,0	78.7	65*	210*	90*	300*	310	1,020	11
27,0	88.6	70	230	100	330	320	1,050	10
30,0	98.4	75	250	110	360	320	1,050	9
33,0	108.3	85	270	120	390	350	1,150	9
36,0	118.1	90	290	130	420	345	1,130	8
39,0	128.0	95	310	135	450	370	1,220	8
42,0	137.8	100	330	145	480	355	1,170	7
45,0	147.6	105	350	155	510	380	1,246	7
48,0	157.5	115	370	165	540	355	1,170	6
51,0	167.3	120	390	175	570	375	1,230	6
54,0	177.2	125	410	180	590	340	1,120	5
57,0	187.0	130	430	190	620	360	1,180	5
60,0	196.9	135	450	200	650	380	1,246	5
63,0	206.7	145	470	210	690	330	1,090	4
66,0	216.5	150	490	220	720	345	1,130	4
69,0	226.4	155	510	225	740	290	950	3
72,0	236.2	160	530	235	770	305	1,000	3
75,0	246.1	165	550	245	800	315	1,030	3
78,0	255.9	175	570	255	830	325	1,070	3
81,0	265.7	180	590	260	860	340	1,110	3
84,0	275.6	185	600	270	886	265	870	2
87,0	285.4	190	620	275	900	—	—	—
90,0	295.3	195	640	280	920	—	—	—
93,0	305.1	200	650	—	—	—	—	—

**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 spooling on Drum 3 (Auxiliary Drum) may be exceeded if rope length is greater than 177 m (581 ft)

Refer to Block Overhaul Weights chart **No. 9414-A** for minimum weight required for block lowering.

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 2)							
No. Parts of Line	1	2	3	4	5	6	7
Maximum Load - kg	12 500	25 000	37 500	50 000	62 500	75 000	87 500
Maximum Load - lb	27,558	55,116	82,674	110,232	137,790	165,348	192,906
Maximum Load per Part of Line - kg	12 500	12 500	12 500	12 500	12 500	12 500	12 500
Maximum Load per Part of Line - lb	27,558	27,558	27,558	27,558	27,558	27,558	27,558
No. Parts of Line	8	9	10	11	12	13	14
Maximum Load - kg	100 000	112 500	125 000	137 500	150 000	162 500	165 000
Maximum Load - lb	220,464	248,022	275,580	303,138	330,696	358,254	363,800
Maximum Load per Part of Line - kg	12 500	12 500	12 500	12 500	12 500	12 500	11 785
Maximum Load per Part of Line - lb	27,558	27,558	27,558	27,558	27,558	27,558	25,985

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 1)		
No. Parts of Line	1	2
Maximum Load - kg	12 500	25 000
Maximum Load - lb	27,558	55,116
Maximum Load per Part of Line - kg	12 500	12 500
Maximum Load per Part of Line - lb	27,558	27,558

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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<u>Rotation Resistant Wire Rope</u>	
<b>Hoist Line:</b>	
<b>26 mm</b> (Drum 2):	
Wire Rope with Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 62 500 kg (137,800 lb)	
Approx. Weight = 3,41 kg/m (2.28 lb/ft)	
<b>Whip Line:</b>	
<b>26 mm</b> (Drum 1):	
Wire Rope with Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 62 500 kg (137,800 lb)	
Approx. Weight = 3,41 kg/m (2.28 lb/ft)	
<b>Whip/Auxiliary Line:</b>	
<b>26 mm</b> (Drum 3):	
Wire Rope with Pad Eye	
Right Hand Lang Lay	
Minimum Breaking Strength = 62 500 kg (137,800 lb)	
Approx. Weight = 3,41 kg/m (2.28 lb/ft)	

Maximum Spooling Capacities	
Drum 2: (Rear - Hoist Line)	26 mm Wire Rope - 6 Layers - 408 m (1,340 ft)
Drum 1: (Front - Whip Line)	26 mm Wire Rope - 6 Layers - 408 m (1,340 ft)
Drum 3: (Auxiliary Line)	26 mm Wire Rope - 7 Layers - 160 m (525 ft)
6 m (20 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2.	
5 m (17 ft) is deducted from maximum spooling capacity for 3 dead wraps on drum 3.	

Refer to Drum and Lagging chart **No. 9401-A** and Load Block Reeving in Operator's Manual.