

# Wire Rope Specifications

## MLC165

Liftcrane - Boom No. 74  
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	148	65	213	250	820	14
18,0	59.1	55	180	75	246	275	902	13
21,0	68.9	60	197	85	279	295	968	12
24,0	78.7	65	213	90	295	310	1,017	11
27,0	88.6	70	230	100	328	320	1,050	10
30,0	98.4	75	246	110	361	350	1,148	10
33,0	108.3	85	279	120	394	350	1,148	9
36,0	118.1	90	295	130	427	350	1,148	8
39,0	128.0	95	312	135	443	370	1,214	8
42,0	137.8	100	328	145	476	370	1,214	7
45,0	147.6	105	344	155	509	370	1,214	6
48,0	157.5	115	377	165	541	370	1,214	6
51,0	167.3	120	394	175	574	375	1,230	6
54,0	177.2	125	410	180	591	375	1,230	5
57,0	187.0	130	427	190	623	375	1,230	5
60,0	196.9	135	443	200	656	375	1,230	5
63,0	206.7	145	476	210	689	375	1,230	4
66,0	216.5	150	492	220	722	375	1,230	4
69,0	226.4	155	509	225	738	375	1,230	3
72,0	236.2	160	525	235	771	375	1,230	3
75,0	246.1	165	541	245	804	375	1,230	3
78,0	255.9	175	574	255	837	375	1,230	3
81,0	265.7	180	591	260	853	375	1,230	3
84,0	275.6	185	607	270	886	375	1,230	2
87,0	285.4	190	623	275	902	—	—	—
90,0	295.3	195	640	280	919	—	—	—
93,0	305.1	200	656	—	—	—	—	—

**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 wire rope length allowed on Drum 3 (Auxiliary Drum) is 190 m (623 ft). If using luffing jib hoist rope length of 210 m (689 ft), hoisting distance or line pull may be limited.

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Hoist Reeving for Main Load Block							
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	82,673	110,231	137,789	165,347	192,904
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	220,462	248,020	275,578	303,135	330,693	358,251	363,800

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<p><u>Rotation Resistant Wire Rope</u></p> <p><b>Hoist Line:</b></p> <p><b>26 mm</b> (Drum 2): CASAR Eurolift Wire Rope with Pad Eye (MCC Part No. 81023876 or 83010388) Right Hand Lang Lay Minimum Breaking Strength = 62 702 kg (138,235 lb) Approx. Weight = 3,28 kg/m (2.21 lb/ft)</p> <p><b>Or</b></p> <p><b>26 mm</b> (Drum 2): Verope Verotop Wire Rope with Pad Eye (MCC Part No. 81023876 or 83010392) Right Hand Lang Lay Minimum Breaking Strength = 63 019 kg (138,932 lb) Approx. Weight = 3,45 kg/m (2.32 lb/ft)</p> <p><b>Or</b></p> <p><b>26 mm</b> (Drum 2): Bridon Dyform 34XL Wire Rope with Pad Eye (MCC Part No. 81023876) Right Hand Lang Lay Minimum Breaking Strength = 67 097 kg (147,924 lb) Approx. Weight = 3,41 kg/m (2.28 lb/ft)</p>

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<u>Rotation Resistant Wire Rope</u>
<b>Whip Line:</b>
<b>26 mm (Drum 1):</b>
CASAR Eurolift Wire Rope with Pad Eye (MCC Part No. 81023884 or 83010389) Right Hand Lang Lay Minimum Breaking Strength = 62 702 kg (138,235 lb) Maximum Load = 12 500 kg (27,558 lb) per Line Approx. Weight = 3,28 kg/m (2.21 lb/ft)
<b>Or</b>
<b>26 mm (Drum 1):</b>
Verope Verotop Wire Rope with Pad Eye (MCC Part No. 81023884 or 83010393) Right Hand Lang Lay Minimum Breaking Strength = 63 019 kg (138,932 lb) Maximum Load = 12 500 kg (27,558 lb) per Line Approx. Weight = 3,45 kg/m (2.32 lb/ft)
<b>Or</b>
<b>26 mm (Drum 1):</b>
Bridon Dyform 34XL Wire Rope with Pad Eye (MCC Part No. 81023884) Right Hand Lang Lay Minimum Breaking Strength = 67 097 kg (147,924 lb) Maximum Load = 12 500 kg (27,558 lb) per Line Approx. Weight = 3,41 kg/m (2.28 lb/ft)

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<p><u>Rotation Resistant Wire Rope</u></p> <p><b>Auxiliary Line:</b></p> <p><b>26 mm (Drum 3):</b> CASAR Eurolift Wire Rope with Pad Eye (MCC Part No. 81029991 or 81020876 or 83010391) Right Hand Lang Lay Minimum Breaking Strength = 62 702 kg (138,235 lb) Maximum Load = 9 070 kg (20,000 lb) per Line Approx. Weight = 3,28 kg/m (2.21 lb/ft)</p> <p><b>Or</b></p> <p><b>26 mm (Drum 3):</b> Verope Verotop Wire Rope with Pad Eye (MCC Part No. 81029991 or 81020876 or 83010395) Right Hand Lang Lay Minimum Breaking Strength = 63 019 kg (138,932 lb) Maximum Load = 9 070 kg (20,000 lb) per Line Approx. Weight = 3,45 kg/m (2.32 lb/ft)</p> <p><b>Or</b></p> <p><b>26 mm (Drum 3):</b> Bridon Dyform 34XL Wire Rope with Pad Eye (MCC Part No. 81029991 or 81020876) Right Hand Lang Lay Minimum Breaking Strength = 67 097 kg (147,924 lb) Maximum Load = 9 070 kg (20,000 lb) per Line Approx. Weight = 3,41 kg/m (2.28 lb/ft)</p>

Maximum Spooling Capacities	
Drum 2: (Rear - Hoist Line)	26 mm Wire Rope - 6 Layers - 374 m (1,227 ft)
Drum 1: (Front - Whip Line)	26 mm Wire Rope - 6 Layers - 374 m (1,227 ft)
Drum 3: (Auxiliary Line)	26 mm Wire Rope - 7 Layers - 164 m (538 ft)
<p>6,1 m (20 ft) is deducted from maximum spooling capacities for 3 dead wraps per drum on drums 1 and 2. 5,1 m (17 ft) is deducted from maximum spooling capacity for 3 dead wraps on drum 3.</p>	

Refer to Drum and Lagging chart **No. 9293-A** or **No. 9293-B** and Load Block Reeving in Operator's Manual.