

Wire Rope Specifications

MLC300
VPC-MAX

Luffing Jib No. LJ10:501 on
Boom No. B60:500
with Mast No. M10:503 or Mast No. M11:503

Maximum Required Parts of Line - Drum 1														
Boom Length		Luffing Jib Length												
		Meters (Feet)												
Meters	Feet	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)	48,0 (157.5)	54,0 (177.2)	60,0 (196.9)	66,0 (216.5)	72,0 (236.2)	78,0 (255.9)	84,0 (275.6)	90,0 (295.3)	96,0 (315.0)
42,0	137.8	9	8	7	6	5	4	4	3	3	3	2	2	2
48,0	157.5	9	7	6	6	5	4	4	3	3	2	2	2	2
54,0	177.2	8	7	6	5	5	4	4	3	3	2	2	2	2
60,0	196.9	8	7	6	5	4	4	3	3	3	2	2	2	2
66,0	216.5	7	6	5	5	4	4	3	3	2	2	2	2	1
72,0	236.2	6	5	5	4	4	3	3	3	2	2	2	2	1
78,0	255.9	5	5	4	4	3	3	3	2	2	2	2	1	1
84,0	275.6	5	4	4	3	3	3	2	2	2	2	2	1	1
90,0	295.3	4	3	3	3	3	2	2	2	2	2	1	1	1

Maximum Parts of Line For Full Hoisting Range - Drum 2														
Boom Length		Luffing Jib Length Meters (Feet)												
Meters	Feet	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)	48,0 (157.5)	54,0 (177.2)	60,0 (196.9)	66,0 (216.5)	72,0 (236.2)	78,0 (255.9)	84,0 (275.6)	90,0 (295.3)	96,0 (315.0)
42,0	137.8	5	5	4	4	3	3	3	3	2	2	2	2	2
48,0	157.5	5	4	4	3	3	3	3	2	2	2	2	2	2
54,0	177.2	4	4	3	3	3	3	2	2	2	2	2	2	2
60,0	196.9	4	3	3	3	3	2	2	2	2	2	2	2	1
66,0	216.5	3	3	3	3	2	2	2	2	2	2	2	1	1
72,0	236.2	3	3	3	2	2	2	2	2	2	2	1	1	1
78,0	255.9	3	3	2	2	2	2	2	2	2	1	1	1	1
84,0	275.6	3	2	2	2	2	2	2	2	1	1	1	1	1
90,0	295.3	2	2	2	2	2	2	2	1	1	1	1	1	1

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Maximum Parts of Whip Line For Full Hoisting Range - Drum 2 or 3														
Boom Length		Luffing Jib Length												
		Meters (Feet)												
Meters	Feet	24,0 (78.7)	30,0 (98.4)	36,0 (118.1)	42,0 (137.8)	48,0 (157.5)	54,0 (177.2)	60,0 (196.9)	66,0 (216.5)	72,0 (236.2)	78,0 (255.9)	84,0 (275.6)	90,0 (295.3)	96,0 (315.0)
42,0	137.8	2	2	2	2	2	2	2	2	2	2	2	2	2
48,0	157.5	2	2	2	2	2	2	2	2	2	2	2	2	2
54,0	177.2	2	2	2	2	2	2	2	2	2	2	2	2	1
60,0	196.9	2	2	2	2	2	2	2	2	2	2	2	1	1
66,0	216.5	2	2	2	2	2	2	2	2	2	2	1	1	1
72,0	236.2	2	2	2	2	2	2	2	2	2	1	1	1	1
78,0	255.9	2	2	2	2	2	2	2	2	1	1	1	1	1
84,0	275.6	2	2	2	2	2	2	2	1	1	1	1	1	1
90,0	295.3	2	2	2	2	2	2	1	1	1	1	1	1	1

Wire Rope Lengths - Single Hoist Drums (includes all Luffing Jib Lengths)									
Boom Length		Whip Line Drum 2 or 3				Hoist Line Drum 1		Hoist Line Drum 2	
		1 Part		2 Parts					
Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet
42,0	137.8	295	960	430	1,410	675	2,220	450	1,470
48,0	157.5	305	1,000	450	1,470	735	2,410	450	1,470
54,0	177.2	320	1,040	450	1,470	715	2,350	460	1,509
60,0	196.9	330	1,080	450	1,470	770	2,530	460	1,509
66,0	216.5	340	1,120	455	1,490	735	2,410	460	1,509
72,0	236.2	355	1,160	455	1,490	685	2,250	460	1,509
78,0	255.9	365	1,200	455	1,490	660	2,160	460	1,509
84,0	275.6	375	1,230	455	1,490	660	2,160	460	1,509
90,0	295.3	390	1,280	455	1,490	585	1,920	460	1,509

Note: Above hoist line lengths are based on single part lead line. Hoist and whip line lengths 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.

Refer to Block Overhaul Weights chart **No. 9413-A** for minimum weight required for block lowering.

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Hoist Reeving for Main Load Block - Single Lead Line (Drum 1)					
No. Parts of Line	1	2	3	4	5
Maximum Load - kg	16 670	33 340	50 010	66 680	83 350
Maximum Load - lb	36,760	73,520	110,280	147,040	183,800
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760
No. Parts of Line	6	7	8	9	
Maximum Load - kg	100 020	116 690	133 360	150 000	
Maximum Load - lb	220,560	257,320	294,080	330,700	
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 666	
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,744	

Hoist Reeving for Main Load Block - Single Lead Line (Drum 2)					
No. Parts of Line	1	2	3	4	5
Maximum Load - kg	16 670	33 340	50 010	66 680	83 350
Maximum Load - lb	36,760	73,520	110,280	147,040	183,800
Maximum Load per Part of Line - kg	16 670	16 670	16 670	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760	36,760	36,760	36,760

Hoist Reeving for Whip Load Block - Single Lead Line (Drum 2 or 3)		
No. Parts of Line	1	2
Maximum Load - kg	16 600	33 300
Maximum Load - lb	36,700	73,520
Maximum Load per Part of Line - kg	16 670	16 670
Maximum Load per Part of Line - lb	36,760	36,760

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Wire Rope Specifications
<u>Rotation Resistant Wire Rope</u> Hoist Line: 28 mm (Drum 1): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 83 370 kg (183,800 lb) Approx. Weight = 4,2 kg/m (2.8 lb/ft) No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in) MCC Reference No. 81025289, 81026075, or 81024556 Whip/Auxiliary Line: 28 mm (Drums 2 & 3): Wire Rope with Spelter Button and Pad Eye Right Hand Lang Lay Minimum Breaking Strength = 83 370 kg (183,800 lb) Approx. Weight = 4,2 kg/m (2.8 lb/ft) No Load Dia. = 28.83 mm (1.135 in) to 29.08 mm (1.145 in) MCC Reference No. 81025289, 81026075, or 81024556

Maximum Spooling Capacities	
Drum 1: (Hoist Line)	28 mm Wire Rope - 8 Layers - 939 m (3,082 ft)
Drum 2: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
Drum 3: (Auxiliary Line)	28 mm Wire Rope - 6 Layers - 418 m (1,372 ft) - non-freefall drum
7 m (22 ft) is deducted from maximum spooling capacity for 3 dead wraps per drum.	

Refer to Drum and Lagging chart **No. 9339-A** and Load Block Reeving in the Operator Manual.