



# Wire Rope Specifications

# 888 RINGER

Liftcrane - Boom No. 67B

## European Standards

Wire Rope Lengths - Rotation Resistant							
Boom Length		32 mm Dia. (1-1/4 in.) Hoist Line			28.6 mm Dia. (1-1/8 in.) Hoist Line		
		Front Ringer Drum			Front Ringer Drum		
Ft.	Meters	Ft.	Meters	Parts of Line	Ft.	Meters	Parts of Line
125	38.1	4600	1402	34	4600	1402	34
150	45.7	5500	1676	34	5500	1676	34
175	53.3	6300	1920	34	6300	1920	34
200	61.0	6300	1920	26	7200	2195	34
225	68.6	6300	1920	22	7200	2195	30
250	76.2	6300	1920	22	7200	2195	26
275	83.8	6300	1920	18	7200	2195	22
300	91.4	6300	1920	14	7200	2195	18
325	99.1	6300	1920	14	7200	2195	18
350	106.7	6300	1920	10	7200	2195	14
375	114.3	6300	1920	10	7200	2195	14
400	121.9	6300	1920	10	7200	2195	10
425	129.5	6300	1920	6	7200	2195	10

**Note:** Hoist 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 block travel may be restricted when hoist line length with 32 mm wire rope exceeds 5,700 Ft. (1 737m).

Hoist Reeving for Main Load Block - 32 mm (1-1/4 in.) Wire Rope - Rotation Resistant								
No. Parts of Line	6	10	14	18	22	26	30	34
Maximum Load Lbs.	240,000	400,000	560,000	710,900	836,800	952,900	1,059,900	1,158,700
Maximum Load kg	108 860	181 440	254 010	322 460	379 570	432 230	480 760	525 580
Hoist Line (Front Drum)	32 mm - Wire Rope With Pad Eye (MCC Part No. A00218) Right Hand Lang Lay Minimum Breaking Strength = 220,400 Lbs. (980.3 kN) Maximum Load = 40,000 Lbs. (18 140 kg) per line Approx. Weight = 3.37 Lbs. per Ft. (5.01 kg/m) No Load Dia. = 1.285 in. (32.64 mm) to 1.304 in. (33.12 mm)							



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Hoist Reeving for Main Load Block - 28.6 mm (1-1/8 in.) Wire Rope - Rotation Resistant								
No. Parts of Line	6	10	14	18	22	26	30	34
Maximum Load Lbs.	193,800	323,000	452,200	567,500	667,900	760,600	846,000	924,900
Maximum Load kg	87 910	146 510	205 110	257 410	302 950	345 000	383 740	419 530
Hoist Line (Front Drum)	28.6 mm - 2 160 N/mm <sup>2</sup> Wire Rope, Right Regular Lay, IWRC Rotation Resistant (MCC Part No. 719408) Minimum Breaking Strength = 178,000 Lbs. (791.8 kN) Maximum Capacity with 34 Parts Hoist Line = 924,900 Lbs. (419 530 kg) Approx. Weight = 2.50 Lbs. per Ft. (3.72 kg/m) Dead End Locking Swivel No. 178673 Recommended with Wire Rope Part No. 719408							

Wire Rope Lengths - Not Non-Twisting							
Boom Length		32 mm Dia. (1-1/4 in.) Hoist Line			28.6 mm Dia. (1-1/8 in.) Hoist Line		
		Front Ringer Drum			Front Ringer Drum		
Ft.	Meters	Ft.	Meters	Parts of Line	Ft.	Meters	Parts of Line
125	38.1	4600	1402	34	4600	1402	34
150	45.7	4900	1494	30	5500	1676	34
175	53.3	5600	1707	30	6300	1920	34
200	61.0	5600	1707	26	6400	1951	30
225	68.6	5600	1707	22	6400	1951	26
250	76.2	5600	1707	18	6900	2103	26
275	83.8	5600	1707	18	6900	2103	22
300	91.4	5600	1707	14	6900	2103	18
325	99.1	5600	1707	14	6900	2103	18
350	106.7	5600	1707	10	6900	2103	14
375	114.3	5600	1707	10	6900	2103	14
400	121.9	5600	1707	10	6900	2103	10
425	129.5	5600	1707	6	6900	2103	10

**Note:** Hoist 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 - 32 mm (1-1/4 in.) Wire Rope - Not Non-Twisting								
No. Parts of Line	6	10	14	18	22	26	30	34
Maximum Load Lbs.	240,000	400,000	560,000	720,000	880,000	1,040,000	1,200,000	1,304,000
Maximum Load kg	108 860	181 440	254 010	326 590	399 160	471 740	544 310	591 400
<b>Wire Rope Required for 1,304,000 Lb. (591 400 kg) Maximum Capacity With 34 Parts of Line</b>								
Hoist Line (Front Drum)	32 mm - 2 160 N/mm <sup>2</sup> Wire Rope (MCC Part No. 719411) 8 x 25 Filler Wire, Right Regular Lay, IWRC Minimum Breaking Strength = 211,000 Lbs. (938.5 kN) Approx. Weight = 3.27 Lbs. per Ft. (4.87 kg/m)							
<b>Note:</b> Block Spin May Occur Under Certain Operating Conditions.								

Hoist Reeving for Main Load Block - 28.6 mm (1-1/8 in.) Wire Rope - Not Non-Twisting								
No. Parts of Line	6	10	14	18	22	26	30	34
Maximum Load Lbs.	193,800	323,000	452,200	581,400	710,600	839,800	969,000	1,086,900
Maximum Load kg	87 910	146 510	205 110	263 720	322 320	380 930	439 530	493 010
Hoist Line (Front Drum)	28.6 mm - 2 160 N/mm <sup>2</sup> Wire Rope (MCC Part No. 719410) 8 x 25 Filler Wire, Right Regular Lay, IWRC Minimum Breaking Strength = 168,400 Lbs. (749.7 kN) Maximum Capacity with 34 Parts Hoist Line = 1,086,900 Lbs. (493 010 kg) Approx. Weight = 2.61 Lbs. per Ft. (3.88 kg/m)							
<b>Note:</b> Block Spin May Occur Under Certain Operating Conditions								

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Wire Rope Lengths					
Boom Length		Whip Line or Auxiliary Line			
		1 Part		2 Part	
Ft.	Meters	Ft.	Meters	Ft.	Meters
125	38.1	325	99	475	145
150	45.7	375	114	550	168
175	53.3	425	130	625	191
200	61.0	475	145	700	213
225	68.6	525	160	775	236
250	76.2	575	175	850	259
275	83.8	625	191	925	282
300	91.4	675	206	1000	305
325	99.1	725	221	1075	328
350	106.7	775	236	1150	351
375	114.3	825	251	1225	373
400	121.9	875	267	1300	396
425	129.5	925	282	1375	419

**Note:** Whip line or auxiliary line lengths given in table will allow hook to touch ground. When hook travel below ground is required, add additional rope equal to parts of line times added travel distance.

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Whip Line: (Rear Drum)	28.6 mm (1-1/8 in.)	1 960 N/mm <sup>2</sup> Wire Rope, Right Regular Lay Rotation Resistant (MCC Part No. 719399) Minimum Breaking Strength = 161,600 Lbs. (718.5 kN) Maximum Load = 32,300 Lbs. (14 650 kg) per line Approx. Weight = 2.48 Lbs. per Ft. (3.69 kg/m)
Auxiliary Line: (Boom Butt Drum)	26 mm -	1 960 N/mm <sup>2</sup> Wire Rope, Right Regular Lay Rotation Resistant (MCC Part No. 719402) Minimum Breaking Strength = 133,400 Lbs. (593.7 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 2.07 Lbs. per Ft. (3.08 kg/m)
	or	
	26 mm -	1 960 N/mm <sup>2</sup> Wire Rope Rotation Resistant (MCC Part No. 719378) Minimum Breaking Strength = 146,200 Lbs. (650.6 kN) Maximum Load = 20,000 Lbs. (9 070 kg) per line Approx. Weight = 2.13 Lbs. per Ft. (3.17 kg/m)

Maximum Spooling Capacities	
Front Ringer Drum: (Hoist Line)	32 mm Wire Rope - 8 Layers - 4,859 Ft. (1 481m) with 35-3/4 in. (908 mm) Dia. Lagging 28.6 mm Wire Rope - 10 Layers - 7,062 Ft. (2 152m) with 35-3/4 in. (908 mm) Dia. Lagging
Rear Ringer Drum: (Whip Line)	28.6 mm Wire Rope - 8 Layers - 3,714 Ft. (1 132m) with 30-1/2 in. (775 mm) Dia. Lagging
Boom Butt Drum: (Auxiliary Line)	26 mm Wire Rope - 6 Layers - 1,323 Ft. (403m) 6 Layers - 1,415 Ft. (431m) with 21-1/4 in. (540 mm) Dia. Lagging
17 Ft. (5m) [25 Ft. (8m) with 30-1/2 in. (775 mm) Dia. lagging or 29 Ft. (9m) with 35-3/4 in. (908 mm) Dia. Lagging] is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.	