

# Wire Rope Specifications

## 888 RINGER

Liftcrane - Boom No. 67B

Jib No. 22EL Attached

| Wire Rope Lengths |        |                                     |        |                             |                                        |        |                             |
|-------------------|--------|-------------------------------------|--------|-----------------------------|----------------------------------------|--------|-----------------------------|
| Boom Length       |        | 1-1/4 in. Dia. (32mm)<br>Hoist Line |        |                             | 1-1/8 in. Dia. (28.6 mm)<br>Hoist Line |        |                             |
|                   |        | Front Ringer Drum                   |        | Maximum<br>Parts Of<br>Line | Front Ringer Drum                      |        | Maximum<br>Parts Of<br>Line |
| Ft.               | Meters | Ft.                                 | Meters |                             | Ft.                                    | Meters |                             |
| 125               | 38.1   | 4100                                | 1250   | 30                          | 4600                                   | 1402   | 34                          |
| 150               | 45.7   | 4900                                | 1494   | 30                          | 5500                                   | 1676   | 34                          |
| 175               | 53.3   | 4900                                | 1494   | 26                          | 5600                                   | 1707   | 30                          |
| 200               | 61.0   | 5600                                | 1707   | 26                          | 6400                                   | 1951   | 30                          |
| 225               | 68.6   | 5600                                | 1707   | 22                          | 6400                                   | 1951   | 26                          |
| 250               | 76.2   | 5600                                | 1707   | 18                          | 6400                                   | 1951   | 22                          |
| 275               | 83.8   | 5600                                | 1707   | 18                          | 6400                                   | 1951   | 18                          |
| 300               | 91.4   | 5600                                | 1707   | 14                          | 6400                                   | 1951   | 18                          |
| 325               | 99.1   | 5600                                | 1707   | 14                          | 6400                                   | 1951   | 14                          |
| 350               | 106.7  | 5600                                | 1707   | 10                          | 6400                                   | 1951   | 14                          |
| 375               | 114.3  | 5600                                | 1707   | 10                          | 6400                                   | 1951   | 10                          |

**Note:** Hoist 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.

Capacity chart restrictions will occur when 1-1/8 in. (28.6 mm) wire rope is used. Maximum capacity is 1,098,200 Lbs. (498 140 kg) with 34 parts line.

| Hoist Reeving for Main Load Block - 1-1/4 in. or 32 mm Wire Rope |         |                                                                                                                                                                                                                                                                                                                               |         |         |         |           |           |
|------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|-----------|-----------|
| No. Parts of Line                                                | 6       | 10                                                                                                                                                                                                                                                                                                                            | 14      | 18      | 22      | 26        | 30        |
| Maximum Load - Lbs.                                              | 240,000 | 400,000                                                                                                                                                                                                                                                                                                                       | 560,000 | 720,000 | 880,000 | 1,040,000 | 1,152,300 |
| Maximum Load - kg                                                | 108 860 | 181 440                                                                                                                                                                                                                                                                                                                       | 254 010 | 326 590 | 399 160 | 471 740   | 522 600   |
| Hoist Line:<br>(Front Drum)                                      |         | 1-1/4 in. or 32 mm - Wire Rope With Pad Eye (MCC Part No. A00212 or A00218)<br>Right Hand Lang Lay<br>Minimum Breaking Strength = 220,400 Lbs. (980.3 kN)<br>Maximum Load = 40,000 Lbs. (18 140 kg) per line<br>Approx. Weight = 3.37 Lbs. per Ft. (5.01 kg/m)<br>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 - 1-1/8 in. (28.6 mm) Wire Rope**

| 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 | 1,098,200 |
| Maximum Load - kg   | 87 910  | 146 510 | 205 110 | 263 720 | 322 320 | 380 930 | 439 530 | 498 140   |

Hoist Line: 1-1/8 in. (28.6 mm) - 1 960 N/mm<sup>2</sup> Wire Rope, Right Regular Lay  
(Front Drum) 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)

**Maximum Spooling Capacities**

Front Ringer Drum: 1-1/4 in. (32 mm) Wire Rope - 8 Layers - 4,859 Ft. (1 481m) with 35-3/4 in. (908 mm) Dia. Lagging (Hoist Line)

1-1/8 in. (28.6 mm) Wire Rope - 10 Layers - 7,062 Ft. (2 152m) with 35-3/4 in. (908 mm) Dia. Lagging

29 Ft. (9m) is deducted from maximum spooling capacities for 3 dead wraps.

Refer to Drum and Lagging chart **No. 6121-A**.