



# Wire Rope Specifications

Liftcrane - Fixed Jib No. 79A on Boom No. 55 or No. 55A  
28 mm Hoist Line

**18000 With  
21000 MAX-ER**

| Wire Rope Lengths - Tandem Hoist Drums |        |                            |           |           |            |                      |        |                      |        |                     |        |        |        |
|----------------------------------------|--------|----------------------------|-----------|-----------|------------|----------------------|--------|----------------------|--------|---------------------|--------|--------|--------|
| Boom Length                            |        | Total Parts of Line        |           |           |            | Hoist Line<br>Drum 1 |        | Hoist Line<br>Drum 2 |        | Whip Line<br>Drum 3 |        |        |        |
|                                        |        | Jib Length - Feet (Meters) |           |           |            |                      |        |                      |        | 1 Part              |        | 2 Part |        |
| Feet                                   | Meters | 50 (15.2)                  | 70 (21.3) | 90 (27.4) | 110 (33.5) | Feet                 | Meters | Feet                 | Meters | Feet                | Meters | Feet   | Meters |
| 140                                    | 42.7   | 28                         | 28        | 24        | 20         | 3200                 | 975    | 3200                 | 975    | 575                 | 175    | 825    | 251    |
| 160                                    | 48.8   | 28                         | 28        | 24        | 20         | 3500                 | 1067   | 3500                 | 1067   | 600                 | 183    | 900    | 274    |
| 180                                    | 54.9   | 28                         | 24        | 24        | 20         | 3600                 | 1097   | 3600                 | 1097   | 650                 | 198    | 950    | 290    |
| 200                                    | 61.0   | 28                         | 24        | 20        | 16         | 3800                 | 1158   | 3800                 | 1158   | 675                 | 206    | 1000   | 305    |
| 220                                    | 67.1   | 24                         | 20        | 16        | 16         | 3800                 | 1158   | 3800                 | 1158   | 725                 | 221    | 1075   | 328    |
| 240                                    | 73.2   | 20                         | 16        | 16        |            | 3800                 | 1158   | 3800                 | 1158   | 775                 | 236    | 1125   | 343    |
| 260                                    | 79.2   | 20                         | 16        |           |            | 3800                 | 1158   | 3800                 | 1158   | 800                 | 244    | 1175   | 358    |
| 280                                    | 85.3   | 16                         | 16        |           |            | 3800                 | 1158   | 3800                 | 1158   | 850                 | 259    | 1250   | 381    |
| 300                                    | 91.4   | 16                         |           |           |            | 3800                 | 1158   | 3800                 | 1158   | 875                 | 267    | 1300   | 396    |

**Note:** Above hoist line lengths are based on tandem drums both reeved to jib load block. Each drum is dead ended in jib point. Total parts of line requires using both drums 1 and 2. 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.

| Hoist Reeving for Jib Load Block - Two Lead Lines |         |         |         |         |
|---------------------------------------------------|---------|---------|---------|---------|
| No. Parts of Line                                 | 16      | 20      | 24      | 28      |
| Maximum Load - Lbs.                               | 574,000 | 717,600 | 861,000 | 995,200 |
| Maximum Load - kg                                 | 260 360 | 325 500 | 390 540 | 451 420 |



# Wire Rope Specifications

Liftcrane - Fixed Jib No. 79A on Boom No. 55 or No. 55A  
28 mm Hoist Line

**18000 With  
21000 MAX-ER**

| Wire Rope Lengths - Single Hoist Drum |        |                                               |           |           |            |                   |        |                       |        |        |        |
|---------------------------------------|--------|-----------------------------------------------|-----------|-----------|------------|-------------------|--------|-----------------------|--------|--------|--------|
| Boom Length                           |        | Maximum Parts of Line for Full Hoisting Range |           |           |            | Hoist Line Drum 1 |        | Whip Line Drum 2 or 3 |        |        |        |
|                                       |        | Jib Length - Feet (Meters)                    |           |           |            |                   |        | 1 Part                |        | 2 Part |        |
| Feet                                  | Meters | 50 (15.2)                                     | 70 (21.3) | 90 (27.4) | 110 (33.5) | Feet              | Meters | Feet                  | Meters | Feet   | Meters |
| 140                                   | 42.7   | 24                                            | 20        | 18        | 18         | 4800              | 1463   | 575                   | 175    | 825    | 251    |
| 160                                   | 48.8   | 20                                            | 18        | 18        | 16         | 4800              | 1463   | 600                   | 183    | 900    | 274    |
| 180                                   | 54.9   | 18                                            | 18        | 16        | 14         | 4800              | 1463   | 650                   | 198    | 950    | 290    |
| 200                                   | 61.0   | 18                                            | 16        | 14        | 14         | 4800              | 1463   | 675                   | 206    | 1000   | 305    |
| 220                                   | 67.1   | 16                                            | 14        | 14        | 12         | 4800              | 1463   | 725                   | 221    | 1075   | 328    |
| 240                                   | 73.2   | 14                                            | 14        | 12        | 12         | 4800              | 1463   | 775                   | 236    | 1125   | 343    |
| 260                                   | 79.2   | 14                                            | 12        | 12        | 10         | 4800              | 1463   | 800                   | 244    | 1175   | 358    |
| 280                                   | 85.3   | 12                                            | 12        | 12        | 10         | 4800              | 1463   | 850                   | 259    | 1250   | 381    |
| 300                                   | 91.4   | 12                                            | 12        | 10        | 8          | 4800              | 1463   | 875                   | 267    | 1300   | 396    |
| 320                                   | 97.5   | 12                                            | 10        | 10        | 8          | 4800              | 1463   | 925                   | 282    | 1350   | 411    |
| 340                                   | 103.6  | 10                                            | 10        | 8         | 6          | 4800              | 1463   | 975                   | 297    | 1425   | 434    |

**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.

| Hoist Reeving for Jib Load Block - Single Lead Line |         |         |         |         |         |         |
|-----------------------------------------------------|---------|---------|---------|---------|---------|---------|
| No. Parts of Line                                   | 2       | 4       | 6       | 8       | 10      | 12      |
| Maximum Load - Lbs.                                 | 71,700  | 143,500 | 215,200 | 287,000 | 358,800 | 430,500 |
| Maximum Load - kg                                   | 32 520  | 65 090  | 97 610  | 130 180 | 162 750 | 195 270 |
| No. Parts of Line                                   | 14      | 16      | 18      | 20      | 22      | 24      |
| Maximum Load - Lbs.                                 | 497,600 | 563,100 | 627,400 | 690,300 | 752,000 | 812,500 |
| Maximum Load - kg                                   | 225 710 | 255 420 | 284 580 | 313 110 | 341 100 | 368 540 |

# Wire Rope Specifications

Liftcrane - Fixed Jib No. 79A on Boom No. 55 or No. 55A  
28 mm Hoist Line

**18000 With  
21000 MAX-ER**

| Wire Rope Specifications                                    |
|-------------------------------------------------------------|
| <u>Rotation Resistant Wire Rope</u>                         |
| <b>Hoist Line:</b>                                          |
| <b>28 mm</b> (Drum 1):                                      |
| Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)   |
| Right Hand Lang Lay                                         |
| Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)        |
| Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)              |
| No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm) |
| <b>Hoist or Whip Line:</b>                                  |
| <b>28 mm</b> (Drum 2):                                      |
| Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)   |
| Right Hand Lang Lay                                         |
| Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)        |
| Maximum Load = 35,800 Lbs. (16 240 kg) per line             |
| Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)              |
| No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm) |
| <b>Whip Line:</b>                                           |
| <b>28 mm</b> (Drum 3):                                      |
| Dyform 34MAX Wire Rope With Pad Eye (MCC Part No. 719425)   |
| Right Hand Lang Lay                                         |
| Minimum Breaking Strength = 179,400 Lbs. (81 370 kg)        |
| Maximum Load = 30,000 Lbs. (13 610 kg) per line             |
| Approx. Weight = 2.76 Lbs. Per Ft. (4.11 kg/m)              |
| No Load Dia. = 1.124 in. (28.55 mm) to 1.146 in. (29.11 mm) |

| Maximum Spooling Capacities                                                         |                                                  |
|-------------------------------------------------------------------------------------|--------------------------------------------------|
| Drum 1:<br>(Hoist Line)                                                             | 28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m) |
| Drum 2:<br>(Hoist or Whip Line)                                                     | 28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m) |
| Drum 3:<br>(Whip Line)                                                              | 28 mm Wire Rope - 8 Layers - 1,900 Ft. ( 579m)   |
| 23 Ft. (7m) is deducted from maximum spooling capacities for 3 dead wraps per drum. |                                                  |

Refer to Drum and Lagging chart **No. 8512-A** and Load Block Reeving folio **No. 2032**.