

Wire Rope Specifications

Liftcrane - Boom No. 55-79A

28 mm Hoist Line

Wire Rope Lengths - Single Hoist Drum								
Boom Length		Whip Line Drum 2 or 3				Hoist Line Drum 1		
		1 Part		2 Part				
Ft.	Meters	Ft.	Meters	Ft.	Meters	Ft.	Meters	Parts of Line
120	36.6	300	91	425	130	3900	1189	30
140	42.7	325	99	475	145	4500	1372	30
160	48.8	375	114	550	168	4800	1463	28
180	54.9	400	122	600	183	4800	1463	24
200	61.0	450	137	675	206	4800	1463	22
220	67.1	500	152	725	221	4800	1463	20
240	73.2	525	160	775	236	4800	1463	18
260	79.2	575	175	850	259	4800	1463	16
280	85.3	600	183	900	274	4800	1463	14
300	91.4	650	198	975	297	4800	1463	12
320	97.5	700	213	1025	312	4800	1463	12
340	103.6	725	221	1075	328	4800	1463	10
360	109.7	775	236	1150	351	4800	1463	10
380	115.8	800	244	1200	366	4800	1463	8
400	121.9	850	259	1275	389	4800	1463	8

Note: 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 Main Load Block - Single Lead Line					
No. Parts of Line	2	4	6	8	10
Maximum Load - Lbs.	71,700	143,500	215,200	287,000	358,800
Maximum Load - kg	32 520	65 090	97 610	130 180	162 750
No. Parts of Line	12	14	16	18	20
Maximum Load - Lbs.	430,500	502,300	568,800	633,700	697,300
Maximum Load - kg	195 270	227 840	258 000	287 440	316 290
No. Parts of Line	22	24	26	28	30
Maximum Load - Lbs.	759,600	820,700	880,600	939,300	1,000,000
Maximum Load - kg	344 550	372 260	399 430	426 060	453 500

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<u>Rotation Resistant Wire Rope</u> Hoist Line: 28 mm (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) Whip Line: 28 mm (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) 28 mm (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: 28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m) (Hoist Line) Drum 2: 28 mm Wire Rope - 11 Layers - 4,723 Ft. (1 440m) (Whip Line) Drum 3: 28 mm Wire Rope - 8 Layers - 1,900 Ft. (579m) (Whip Line) 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**.