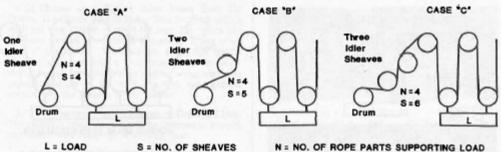
Wire Rope Breaking Strength = 192 -kip Single Line Pull = 64 -lb

# of Lines	Hoist Capacity*				
8	512				
10	640				
12	768				

^{*}Based on 100% efficency

1 3/8" Cable



11

12

13

14

15

.619

.597

.576

.556

.537

.568

547

.528

.510

.493

.521

.502

.485

.468

.452

N = NO. OF ROPE PARTS SUPPORTING LOAD

98-2.2

FAST LINE TENSION = FAST LINE FACTOR X LOAD

									-	_		_
1	2	3	4	5	6	7	8	9	10	11	12	13

Plain Bearing Sheaves

.147

.140

.133

.128

.124

.160

.152

.145

.140

.135

Roller Bearing Sheaves

N	K = 1.09*							K = 1.04*						
	Efficiency			Fast Line Factor			Efficiency			Fast Line Factor				
	Case A	Case B	Case C	Case A	Case B	Case C	Case A	Case B	Case C	Case A	Case B	Case C		
2	.880	.807	.740	.368	.620	.675	.943	.907	.872	.530	.551	.574		
3	.844	.774	.710	.395	.431	.469	.925	.889	.855	.360	.375	.390		
4	.810	.743	.682	.309	.336	.367	.908	.873	.839	.275	.286	.298		
5	.778	.714	.655	.257	.280	.305	.890	.856	.823	.225	.234	.243		
6	.748	.686	.629	.223	.243	.265	.874	.840	.808	.191	.198	.206		
7	.719	.660	.605	.199	.216	.236	.857	.824	.793	.167	.173	.180		
8	.692	.635	.582	.181	.197	.215	.842	.809	.778	.148	.154	.161		
9	.666	.611	.561	.167	182	.198	.826	.794	.764	.135	.140	.145		
10	.642	.589	.540.	.156	.170	.185	.811	.780	.750	.123	.128	.133		

.175

.166

.159

.153

.147

.796

.782

.768

.755

.741

.766

.752

.739

.725

.713

.736

.723

.710

698

.685

.114

.106

.100

.095

.090

.119

.111

.104

.099

.124

.115

.108

.102

.097

Fast Line Factor = N x EFFICIENCY EFFICIENCY =

NOTE: The above cases apply also where the rope is dead ended at the lower or traveling block or derrick floor after passing over a dead sheave in the crown.

*In these tables the K factor for sheave friction is 1.09 for plain bearings and 1.04 for roller bearings. Other K factors can be used if recommended by the equipment manufacturer.

FIG. 2.2 EFFICIENCY OF WIRE ROPE REEVING FOR MULTIPLE SHEAVE BLOCKS CASES A, B AND C

(Fast Line and Efficiency Factors for Derricks, Booms, etc.)