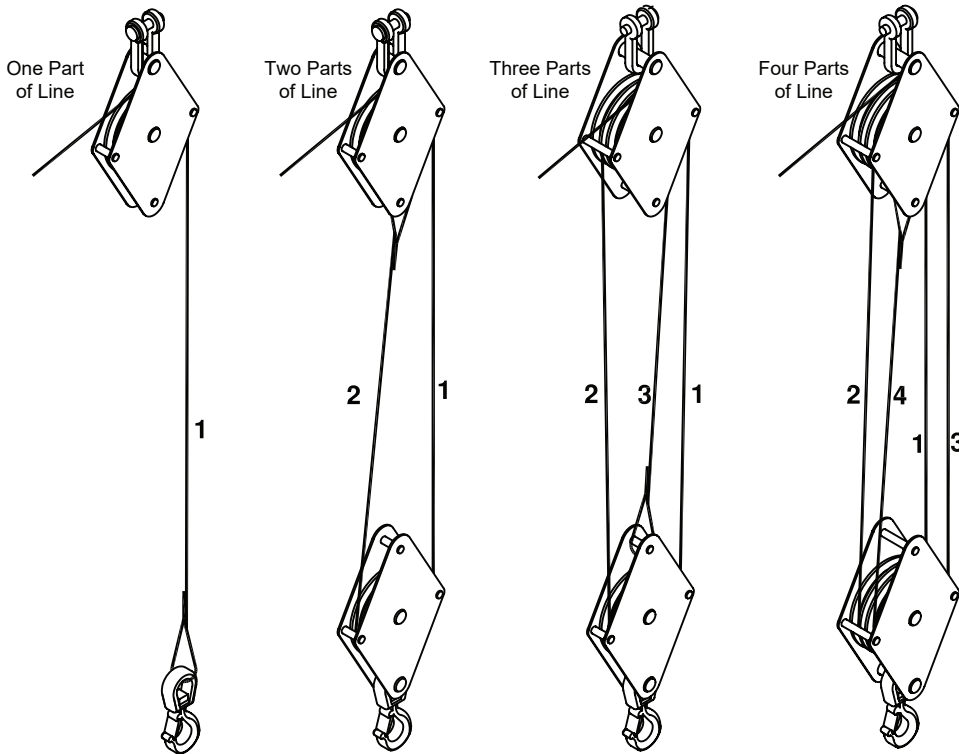


## Winch and Hoist Application Guidelines

### Using Multiple Parts of Line

#### Rigging Diagram



#### Calculations

To determine the number of parts of line required, divide the total required line pull by available single line pull to generate a multiplier.

Reference the table to the right to the find next number greater than the calculated multiplier.

$$\frac{\text{Total Required Line Pull}}{\text{Available Single Line Pull}} = \text{Multiplier}$$

#### Example:

$$\frac{7400 \text{ lbs.}}{2000 \text{ lbs.}} = 3.70 \rightarrow \begin{array}{l} 6 \text{ Parts with Nylatron Sheaves} \\ 5 \text{ Parts with Bronze Bushed Sheaves} \\ 4 \text{ Parts with Rolling Bearing Sheaves} \end{array}$$

Parts of Line	Multiplier		
	Nylatron Sheaves	Bronze Bushed Sheaves	Roller Bearing Sheaves
2	1.86	1.91	1.96
3	2.58	2.76	2.88
4	3.16	3.53	3.77
5	3.60	4.24	4.63
6	3.90	4.89	5.45
7	-----	5.48	6.24
8	-----	6.03	7.00