



Usage Calculations

Economical usage is one of the major advantages of **TUBE-LUBE™**.

Over-applying is always better than under-applying. This page will help understand what your usage **should** be.

STEP 1: Estimate the total lubricant required for the job based on total cable length and diameter to be installed.

Length of Cable	3/4" dia	1" dia	1-1/4" dia	2" dia	3" dia	4" dia
100 ft	0.06 Gal.	0.08 Gal.	0.1 Gal.	0.2 Gal.	0.25 Gal.	0.3 Gal.
500 ft	0.3 Gal.	0.4 Gal.	0.5 Gal.	0.8 Gal.	1.25 Gal.	1.6 Gal.
1000 ft	0.6 Gal.	0.8 Gal.	1.0 Gal.	1.6 Gal.	2.5 Gal.	3.2 Gal.
3000 ft	1.9 Gal.	2.5 Gal.	3.0 Gal.	4.8 Gal.	7.5 Gal.	9.6 Gal.
5000 ft	3.1 Gal.	4.1 Gal.	5.0 Gal.	8.0 Gal.	12.5 Gal.	16.0 Gal.

STEP 2: Calculate the application rate for the lubricant based on the cable diameter and the pulling or blowing speed. If you do not have the table below at hand, a quick formula to do this is:

Cable Dia. (inches) x Pulling speed (ft/min) x 0.05 = Gallons per hour (gph)
 Example: 3/4" dia. cable at 300 ft/min should use: 0.75 x 300 x 0.05 = 11.25 gallons / hour.

Or use this Quick reference table:

Cable dia.	Gallons per hour (gph) at "X" ft. per min. (fpm) pulling speed						
	20 fpm	30 fpm	50 fpm	100 fpm	150 fpm	200 fpm	300 fpm
3/4	-	-	-	3.7	5.5	7.3	11.0
1	-	-	2.4	4.9	7.3	9.8	14.7
1 1/4	-	-	3.1	6.1	9.2	12.2	-
2	-	2.9	4.9	9.8	14.7	-	-
2 1/2	-	3.7	6.1	12.2	-	-	-
3	2.9	4.4	7.3	-	-	-	-
4	3.9	5.9	9.8	-	-	-	-

STEP 3: Determine the operating pressure for the TUBE-LUBE™ feed tanks to obtain the application rate determined in step 2.

Tank Pressure (min. to max. psi)	5 psi	10 psi	15 psi	20 psi	25 psi	30 psi	35 psi	40 psi
Flow rate (gph)	5	7	8.5	10	11	12.5	13.5	14.5

