

# TECHLUBE-FO

## FIBER OPTIC CABLE PULLING LUBRICANT

A water-based gel lubricant formulated to provide maximum friction reduction for high shear, difficult telecommunication cable pulling operations.

- Biodegradable, water-based lubricant
- Coats evenly and clings to the cable
- Provides maximum friction reduction for difficult cable pulling applications
- Compatible with all types of cable jackets, inner duct, and conduit
- Leaves a lubricating film
- Coats fiber optic cables and coaxial cables
- Will not "cement" the cable to the bottom of the conduit
- Available in both winter and summer grade formulas



### TechLube FO is available in:

Size	Part No.
<b>Summer Grade</b>	
1 gallon (3.78 liters)	TLF001J/61701
2.5 gallons (9.46 liters)	TLF0025/61725
5 gallons (18.93 liters)	TLF005/61705
55 gallons (208 liters)	TLF055/61755
<b>Winter Grade</b>	
1 gallon (3.78 liters)	TLWFO01J/61801
2.5 gallons (9.46 liters)	TLWFO025/61825
5 gallons (18.93 liters)	TLWFO05/61805

# Technical Data – Techlube FO Fiber Optic Cable Pulling Lubricant



## General Information

Techlube FO Fiber Optic Cable Pulling Lubricant is a biodegradable, water based lubricant engineered to meet the special requirements of pulling inner duct, communication cables, coaxial cables, and fiber optic cables. Techlube FO Fiber Optic Cable Pulling Lubricant provides superior friction reducing qualities which make it an excellent choice for long distance cable pulling applications. Techlube FO Fiber Optic Cable Pulling Lubricant will dry slowly over time, leaving a thin film that will not "cement" the cable to the conduit, but will facilitate removal of cable at a later date.

Lubricant needed to install cable: Any attempt to quantify exactly the amount of lubricant that is needed on an individual installation will fall short of being accurate. In general, experience has revealed that some valid assumptions can be made. Formulas are presented below that have been found to be acceptable for most installations. However, there are field conditions, which may require more lubricant than the formulas provide. Knowledge of specific local conditions and experience has proven to be the best judge in these cases.

### Formula A: (Non-Metric, USA)

1. For plastic conduit (PVC,ABS, Polyethylene) use the following:  
 $Q = 0.0015 \times L \times D$
2. For multiple concrete, clay tile, fiber cement, fiber filled, and wood conduit use the following:  
 $Q = 0.0025 \times L \times D$

**Q**= Amount of Techlube FO (WFO) needed in gallons.  
**L**= The total length of the pull in feet.  
**D**= The inside diameter of the individual conduit in inches.

### Formula B: (Metric)

1. For plastic conduit (PVC,ABS, Polyethylene) use the following:  
 $Q = 0.0080 \times L \times D$
2. For multiple concrete, clay tile, fiber cement, fiber filled, and wood conduit use the following:  
 $Q = 0.0120 \times L \times D$

**Q**= Amount of Techlube FO (WFO) needed in liters.  
**L**= The total length of the pull in meters.  
**D**= The inside diameter of the individual conduit in centimeters.

## Properties

### Flash Point:

None

### pH:

Neutral

### Odor & Appearance:

Semi-clear, viscous slippery orange liquid with faint almond odor.

Material Safety Data Sheets are available upon request.

*Meets or exceeds these specs:*

ASTM D-1693 test method for cable lubricant compatibility

Belcore Spec "TR-NWT-002811, Issue 1, November 1993"  
"Generic requirements for cable placing lubricants"

**TechLube FO Fiber Optic Cable Pulling Lubricant is compatible with the following cable jacket materials:**

- Low density polyethylene
- Linear low density polyethylene
- Cross link polyethylene

**Distributed By:**

**PT**  
TECHNOLOGIES

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