For the energy sector, SOCOMORE offers a **complete range of products and solutions** for service companies, subcontractors, cable/kit producers, involved in the installation, connection, maintenance and production of cables, accessories and equipment, onshore and offshore.

TECHLUBE

Cable pulling lubricants

Techlube is a range of **water-based** underground Power & Communication **cable pulling lubricants** designed to provide **superior friction reduction** and **reduce the risk of cable damage** during cable installation, which is the primary cause of 90% of cable damage.

Caracteristics

All Techlube cable lubricants share similar chemistries and characteristics:

- **"Cling & String" consistency** of TECHLUBE PHD and FO ensures strong adhesion to the duct wall/cable
- **Perfect adhesion** to cable in wet weather
- **Resistance** to wash off, allowing lubrication even in flooted ducts
- **Slow drying**, leaving a thin film which keeps its lubricating potential for several months, assisting with additional cable pulls to the same duct, and preventing 'cementing' of the cable
- Substancially **biodegradable*** and **non-flammable**
- Water polymer lubricants with **low conductivity**

Advantages

- Reduction friction and risk of damage
- Compatible with cable jackets and jointing accessories
- Regular pulling tension
- Temperature stability
- Retains lubricating potential
- Improved efficiency

** Excluding microspheres in Techlube M*

Temperature stability

Standard grade TECHLUBE will not lose performance qualities in hot weather or after undergoing freeze/thaw cycle.

Directions of use

Techlube products are easy to apply through a variety of methods:

- Hand
- Manual pouring
- Pumping
- Cone feeder systems

Viscosity (cPs)

HD	PHD	MULTI
5400-7400	2000-3500	5400-7400

VOC: 0 % ou 0 g/l · pH: >=5.0- <8.0

Recommended lubricant quantity

These quantities are given for reference and guidance only. Every installation is different depending on complexity, route, cable and duct variable.

- For **plastic conduit** (PVC, polyethylene), use the following equation:
  Q = 0.0064 x L x D (HD, PHD, MULTI)
  Q = 0.0080 x L x D (FO)
  Q = 0.0004 x L x D (M)

- For **multiple concrete, clay tile, fibre ciment, fibre filled and wooden conduit,** use the following equation:
  Q = 0,0098 x L x D (HD, PHD, MULTI)
  Q = 0,0120 x L x D (FO)
  Q = 0,0006 x L x D (M)

Q = quantity of Techlube in liters
L = the total length of the pull in meters
D = the inside diameter of the conduit in centimenters

General requirements for cable lubricants

- **Cable and duct compatibility:** prolonged exposition to the lubricant should not adversely affect the cable or duct performance for the life of the cable.
- **Friction reduction:** the initial installation should not expose the cable to excessive pulling forces or generate damaging heating effects and when completely dried, the lubricant should not 'cement' the cable in place.
- **Environmental safety:** the chemical consistency of the lubricant should not adversely affect the users of environment into which it is placed.
- **Fire resistance:** the lubricant deposits should not continually burn or spread a flame along the length of the duct/cable.
- **Electrical considerations:** the lubricant should not affect the volume resistivity of the semi-conducting cable jacket when used in conjonction with power cables.

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