



ICEUS, Inc. Utility Division

Presents

PROFESSIONAL PULL HEAVY DUTY CABLE LUBRICANT

A high performance, fragrance free, water based gel lubricant engineered to provide maximum friction reduction in high shear, difficult electrical utility and telecommunication cable and innerduct placing operations.

- **Pro-Pull HD** provides excellent friction reduction between cable and all forms of conduit. Test procedure: (Bellcore TR-NWT-00281, procedure #6.1) results: starting friction (static, starting the pull) 0.08; sliding friction (dynamic, during the pull) 0.065
- **Pro-Pull HD** coats evenly and clings on the cable, often referred to as “cling factor” (lubricant adhesiveness in gram weight vertical and horizontal). Pro-Pull HD test results: vertical 128 grams, horizontal 109 grams. This makes application by hand, applicator device, lubricant spreader or diaphragm pump easy and simple.
- **Pro-Pull HD** is biodegradable and nonirritating to skin during normal use. It is a nonflammable liquid and the residue remaining after complete evaporation will not sustain or propagate combustion.
- **Pro-Pull HD Cable Lubricant** is compatible with the following cable jacket material: (Test criteria: ICC Guide-P1210/D10) high density, linear low density, chlorinated, cross linked polyethylene as well as natural rubber; hypalon, PVC, neoprene.
- **Pro-Pull HD** leaves a small amount of residue (less than 5.5% solids by weight). This minute amount of residue prevents cementing of the cable in the conduit. The residue remaining retains its lubricating qualities for many months.
- **Pro-Pull HD** will not separate or lose performance qualities undergoing freeze/thaw cycles. The standard formula was designed to be used at temperatures from 25°F to 150°F.
- **Pro-Pull HD** winter grade (PP-WHD) was designed to be used at temperatures that are under 25°F

Lubricant needed to install cable:

Any attempt to quantify exactly the amount of lubricant that is needed on any individual installation will not be totally accurate, due to jobsite variables. In general, field experience has shown that some valid assumptions can be made. The formulas presented here have been normally acceptable for planning purposes. However, there are often field conditions that may require more lubricant than the formulas provide. Knowledge of specific jobsite conditions, cable and conduit weight and diameter specifications, along with the number of bends and “experience” have proven to be the most accurate estimates.

Lubricant Formulas:

Condition A: For use in plastic conduit (PVC, ABS, Polyethylene, Fiberglass)

1. Non-metric (USA): $Q = 0.0012 \times L \times D$
2. Metric: $Q = 0.0054 \times L \times D$

Condition B: For use in non-plastic conduit (multiple concrete (MCD), clay tile, fiber cement, metal, fiber filled, etc.)

1. Non-metric (USA): $Q = 0.0019 \times L \times D$
2. Metric: $Q = 0.0088 \times L \times D$

- **Odor – None**
- **Appearance: Opaque, viscous, stringy, pink, gel**
- **Flash Point: None**
- **PH – Neutral**
- **See MSDS for more details**

| ITEM# | DESCRIPTION | PACKAGING | SHIPPING WEIGHT |
|---------------------|--|------------------|-----------------|
| PPHD-55 | 55 gallon plastic drum | 1 drum | 480 LBS |
| PPHD-05 | 5 gallon plastic pail | 1 pail | 45 LBS |
| PPHD-1P | 1 gallon plastic pail | 4 pails | 38 LBS |
| PPHD-32 | 32 ounce bottles w/quirt tops | 12 bottles | 28 LBS |
| PPHD-LB/10 | Ten – ½ gallon lube bags in 6 gal plastic pail w/lid | 1 pail (10 bags) | 48 LBS |
| Winter Grade | | | |
| PPHD-W-55 | 55 gallon plastic drum | 1 drum | 480 LBS |
| PPHD-W-05 | 5 gallon plastic pail | 1 pail | 45 LBS |
| PPHD-W-1P | 1 gallon plastic pail | 4 pails | 38 LBS |
| PPHD-W-32 | 32 ounce bottles w/quirt tops | 12 bottles | 28 LBS |
| PPHD-W-LB/10 | Ten – ½ gallon lube bags in 6 gal plastic pail w/lid | 1 pail (10 bags) | 48 LBS |

Distributed/Represented By:

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Chemical & Topical Products



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