

Sign-Up for Juice

Newsletter For Authorized Distributors of **Polywater® Electrical Products**

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The Juice is an opt-in, technical publication from American Polywater Corporation issued on an irregular basis for authorized distributors of Polywater Electrical Products.

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IS LUBRICANT UNNECESSARY?

Cable manufacturers' research indicates that over 90% of premature cable failure is due to damage during installation.



Jacket burn-through due to excessive sidewall pressure



Crushed and broken cable shield



Broken cable conductors



Rope burn-through at a bend

Everyone uses lubricants to reduce friction on a daily basis. We use them for our vehicles, engines, tools, firearms, and mechanical apparatus of infinite variety. Even our bodies create lubricant for use in our joints.

CABLE PULLING LUBRICANT MAKES A BIG DIFFERENCE

Why? The main reason is to reduce friction between surfaces so things don't wear out. Lubricant greatly increases the life and efficiency of a mechanism. Consider your car. With oil, the engine will run for decades; without, it'll run for maybe a minute.

American Polywater revolutionized cable pulling lubricants in the early 1970's with the creation of the first water-based lubricant. We've continuously innovated further improvements for reduced cable pulling tension by formulating multi-polymer lubricants, silicone-enhanced lubricants, highly concentrated lubricants and, more recently, the only "universally compatible" cable pulling lubricant: Polywater® LZ.

LUBRICANTS REDUCE TENSION AND SIDEWALL PRESSURE

So-called "enhanced" cable or wire is promoted as an alternative to cable pulling lubricant. The claim is that jackets are slippery enough to be pulled in dry; that lubricant is unnecessary. Enhanced cable jackets help reduce friction in some cases, but are they enough? Research conclusively shows that Polywater® Lubricants offer more friction reduction than enhanced cables pulled dry... in every cable and conduit combination tested.

Do you want a car engine that runs a little while, or a long while? Do you want a cable that goes a little way into the conduit, or a long way? Do you want a little bit of cable jacket damage, or no damage? What is the long-term cost of a failed installation or shortened cable life? When is that potential loss worth the small cost of prevention with high-performance lubricant? Pretty much never.

CONTRACTORS KNOW THE BENEFITS

Experienced contractors always use lubricant for very good reason. Pulling friction is highly dependent on field circumstances. Sometimes "routine" pulls become difficult. The length of the pull, number of bends and sweeps, condition of the conduit (dirt, water, rust, mud, extrusion irregularities, etc.), ambient temperature, type of conduit, and weight of the cable all have significant impact on ending tension.

In such cases lubricant isn't just a choice. For maximum long-term value on an installation it's a necessity to lower ending tension on the pull. It helps prevent cable jacket damage and extend cable life to that recommended in the manufacturer's specs.

Polywater® Lubricants are specially formulated to excel in a variety of challenging cable pulling situations. Application methods, targeted lubricity (jacket or conduit), compatibility with specialty jackets, and pulling environment are all critical considerations.

Engineers and field personnel know that using the right lubricant in the right quantity on a cable pull is the best way to reduce friction on a pull. It can also aid in the removal of cable at a later date because the lubricant residue can be reslipperified.

PLAN YOUR CABLE PULLS

Use of Polywater® Lubricants and our Pull-Planner™ 3000 software can help you install cable farther with less splicing. We can reduce labor time and increase your profits with our software program and proven lubricant application techniques.

<http://www.polywater.com/videos.asp>

HOW MUCH LUBE SHOULD I USE?

American Polywater created the “Jobs Calculator” to help estimate how much cable pulling lubricant to order. When bidding jobs—or if you have a customer pulling lots of cable—use this free online tool:

<http://www.polywater.com/calculators/jobqty.asp>

FREE SOFTWARE OFFER

Free! We will send any of your customers a free copy of our Pull-Planner™ 3000 software

<http://www.polywater.com/pullplan.html>

Simply call us at **800-328-9384** and ask for Sharon or Lea or e-mail us at support@polywater.com and give us the e-mail address of where we should send the free download instructions. If we can be of any further assistance, please contact us or your local Polywater® agent.

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