

# Polywater<sup>®</sup> Lubricant LZ

## Universal Cable Lubricant



- Developed for LSZH/LSHF, CPE, CSPE & Hypalon<sup>®</sup> cables
- Compatible With All Cable Jackets
- Specification Grade
- Temperature Stable Non-Combustible Residue
- Low Coefficient of Friction
- Clean & Non-Staining
- Application System
- UL & ULC Listed
- Available in Cold Weather Formula

Polywater<sup>®</sup> LZ was formulated for universal cable compatibility. Over 30 years of cable lubricant development led to this new “super lube” product. It meets the performance needs of power plants, mass transit systems, airports, petrochemicals, high-occupancy buildings, and other construction projects using LSZH CPE, CSPE or Hypalon<sup>®</sup> power, control, instrumentation, and communication cables.



# Polywater® Lubricant LZ

## Do you specify or install low-smoke zero-halogen, Hypalon®, CPE or CSPE cables?

Ensure the integrity of electrical construction projects by specifying an appropriate cable pulling lubricant. Many commercially available pulling lubricants weaken LSZH/LSHF jackets and should not be used on these cables.

### Recommendations

Engineers should specify a cable pulling lubricant that does not negate the fire suppression effectiveness of fire-retardant cables or degrade jacket materials. Performance specifications for lubricants should include physical property effects, jacket compatibility, ignition and flame propagation character of residues, coefficient of friction parameters specific to cable type, and manufacturer approvals. Polywater® LZ is the only lubricant that should be specified for installations of LSZH/LSHF, CPE, CSPE cable in duct.

### Caution

Because of ongoing production and formulation advances in cable jacket technology, please verify with cable manufacturers the current status of lubricant compatibility, or contact American Polywater directly for specific jacket details.

### Characteristics

1. Polywater® LZ shows excellent lubricity on a variety of cable jacket types. The following COF's were measured using  
Rigid Steel conduit:  
LSZH .15, CPE .13, CSPE .21, LLDPE .10;  
FRP conduit:  
LSZH .17, CPE .17, CSPE .24, LLDPE .11;  
PVC conduit:  
LSZH .07, CPE .10, CSPE .16, LLDPE .05;  
Method described in "Coefficient of Friction Measurement on Polywater's Friction Table, 2007."  
Typical values determined using 200 lbs/ft normal force.
2. Polywater® LZ dries slippery. It leaves little residue and won't cement cables into conduit.
3. Polywater® LZ does not contain wax or grease.
4. Polywater® LZ has a wide temperature use range:  
Polywater® LZ, 20°F to 120°F (-5°C to 50°C)  
Winter grade Polywater® WLZ, -20°F to 120°F (-30°C to 50°C)
5. Polywater® LZ passes IEEE 1210 physical and electrical testing on a wide variety of cable materials. It does not stress crack polyethylene. Refer to the technical bulletin for details.
6. Polywater® LZ is stable and will not separate after exposure to high heat or freezing.
7. Polywater® LZ will not stain sheet rock, carpet, concrete or clothing. Wipe up excess product when necessary.
8. Polywater® LZ has no flash point and dried residue will not support or spread flame. Test supported by a modified version of IEEE 383, vertical flame tray test.

Package Size	Polywater® LZ Product #	Winter Grade Product #	Units/Case
55-gallon drum (208 liters)	LZ-Drum	WLZ-Drum	1
5-gallon pail (18.9 liters)	LZ-640	WLZ-640	1
1-gallon pail (3.8 liters)	LZ-128	WLZ-128	4
1/2-gallon Front End Pack™ (1.9 liters) (in 5-gal pail)	LZ-110	WLZ-110	10
1-quart bottle (0.95 liters)	LZ-35	WLZ-35	12

**To view technical information on our website go to:**

Support Page: [www.polywater.com/polyLZ.asp](http://www.polywater.com/polyLZ.asp)

Lubricant Application Videos: [www.polywater.com/videos.asp](http://www.polywater.com/videos.asp)



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Important Notice: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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