

# Polywater® Cable Lubricant J

**Polywater® Lubricant J** is a high-performance, clean, slow-drying, water-based gel lubricant. Lubricant J provides maximum tension reduction in all types of cable pulling. It is especially recommended for long pulls, multiple-bend pulls and pulls in a hot environment. Lubricant J dries to form a thin lubricating film that retains its lubricity for months after use.

**Polywater® Lubricant J** is a specification-grade lubricant that does not promote flame propagation when used with fire-retardant cables and systems. It is harmless to humans, environmentally safe, compatible with common cable jacket materials, and can be easily applied as part of the unique Polywater® Lubricant Application System.

**Polywater® Lubricant WJ** (winter-grade) has the same characteristics as Polywater® Lubricant J and is specifically formulated for use in temperatures as low as -20°F (-30°C).

**Front End Pack™** is a conduit-sized polyethylene bag of lubricant. The Front End Pack™ travels through the conduit on the winch line, pre-lubricating the conduit ahead of the cable being pulled.

Package Size	Lubricant J Product #	Winter Grade Product #	Units/Case
55-gal drum (208 L)	J-Drum	WJ-Drum	1
5-gal pail (18.9 L)	J-640	WJ-640	1
1-gal pail (3.9 L)	J-128	WJ-128	4
1/2-gal Front End Pack™ (1.9 L) (in 5-gal pail)	J-110	WJ-110	10
1-qt Front End Pack™ (0.95 L) (in 5-gal pail)	J-99	WJ-99	16
1/2-gal Front End Pack™ (1.9 L) (in corrugated carton)	J-55	WJ-55	6
1-qt (0.95 L) squeeze bottle	J-35	WJ-35	12
1-qt Front End Pack™ (0.95 L) (in corrugated carton)	J-27	WJ-27	12

## Characteristics

- Polywater® J shows excellent lubricity on a variety of cable jacket types. Using PVC conduit, the following COF's were measured:  
PVC .11, XLPE .11, LLDPE .11, CPE .11, HDPE .09, THHN .13, XHHW .11  
Method described in "Coefficient of Friction Measurement on Polywater's Friction Table, 2007."  
Typical values determined using 200 lbs/ft normal force
- Polywater® J dries slippery. It leaves residue and will not cement cables into conduit.
- Polywater® J does not contain wax, grease or silicone.
- Polywater® J has a wide temperature use range:  
Polywater® J, 20°F to 120°F (-5°C to 50°C)  
Winter-grade Polywater® WJ, -20°F to 120°F (-30°C to 50°C)
- Polywater® J 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.
- Polywater® J is stable and will not separate after exposure to high heat or freezing.
- Polywater® J will not stain sheet rock, carpet, concrete or clothing. Wipe up excess product when necessary.
- Polywater® J 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.

To view technical information on our website go to:

Support Page: [www.polywater.com/polyj.html](http://www.polywater.com/polyj.html)

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.

American Polywater expressly disclaims any implied warranties and conditions of merchantability and fitness for a particular purpose. American Polywater's only obligation shall be to replace such quantity of the product proven to be defective. Except for the replacement remedy, American Polywater shall not be liable for any loss, injury, or direct, indirect, or consequential damages resulting from product's use, regardless of the legal theory asserted.

## Model Specification:

The statement below may be inserted into a specific job specification to help maintain engineering standards and ensure project integrity.

The cable pulling lubricant shall be Polywater® J Lubricant. The lubricant shall be UL (or CSA) listed. The lubricant shall contain **no** waxes, greases, silicones, or polyalkylene glycol oils. Lubricant manufacturer must provide cable manufacturer approvals upon request.

Cable jacket compatibility shall be tested by the IEEE 1210, Standard Tests for Determining Compatibility of Cable-Pulling Lubricants with Wire and Cable. It shall pass physical compatibility tests on LLDPE, XLPE, PVC and EPR cable jacket or sheath materials. It shall not stress crack polyethylene per ASTM Standard 1693. There shall be no significant changes in the conductive properties of XLPE and EPR semi-conducting compounds when the lubricant's effect on volume resistivity is tested according to IEEE Standard 1210.

A 200-gram sample of the lubricant, when placed in a one-foot, split metal conduit and fully dried for 24 hours at 105 degrees C, shall not spread a flame more than three inches beyond a point of ignition at a continued heat flux of 40 kW / meter<sup>2</sup>. Total time of test shall be one-half hour.

## Order Information:

<u>Cat #</u>	<u>Package Description</u>
	<b>Regular</b>
J-35	1-quart squeeze bottle (0.95 liter)
J-128	1-gallon pail (3.78 liter)
J-640	5-gallon pail (18.9 liter)
J-27	1-quart bag (0.95 liter)
J-99	1-quart bag (0.95 liter) in a pail
J-55	½-gallon bag (1.9 liter)
J-110	½-gallon bag (1.9 liter) in a pail
J-Drum	55-gallon drum (208 liter)

### Pourable

PJ-128	1-gallon pail (3.78 liter)
PJ-320	2 ½- gallon jug (9.6 liter)
PJ-640	5-gallon pail (18.9 liter)
PJ-Drum	55-gallon drum (208 liter)

\*\* Wintergrade version Polywater® PJ available (WPJ)

### Wintergrade

WJ-35	1-quart squeeze bottle (0.95 liter),
WJ-55	½-gallon bag (1.9 liter)
WJ-110	½-gallon bag (1.9 Liter) in a pail
WJ-128	1-gallon pail (3.78 liter)
WJ-640	5-gallon pail (18.9 liter)
WJ-Drum	55-gallon drum (208 liter)

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Makers of Polywater® and Dyna-Blue® Cable Lubricants  
and Pull-Planner™ 3000 Software

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