Polywater[®] Communication Gel Lubricant Type CGL

POLYWATER[®] Lubricant CGL is a high performance, **gel** cable pulling lubricant formulated specifically for the communications industry. It is recommended for fiber optic, copper or coaxial cable pulls.

POLYWATER[®] Lubricant CGL provides maximum friction reduction between cable and conduit under both low and high sidewall bearing pressures. It is slow-drying and leaves a lubricating film after its water base has evaporated. Polywater[®] CGL is a gel material and can be applied by hand or using Polywater's LP Pumps.

POLYWATER[®] Lubricant CGL meets California regulation CCR 22. Polywater[®] CGL is suitable for use on PE and low-smoke zero-halogen (LSZH) communication cable jackets.

Product Benefits

- Superior friction reduction
- Effective lubrication when dry
- High cling factor

Friction Testing

Friction is measured using the method described in the white paper, "Coefficient of Friction Measurement on Polywater's Friction Table, 2007" (polywater.com/FTable.pdf). Values are averages based on cable jacket and conduit materials from multiple manufacturers. Typical friction coefficients at 200 lbs/ft (2.91 kN/m) normal pressure are shown.

Coefficient of Friction for POLYETHYLENE Jacket Cable	
<u>Conduit Type</u>	Typical Value
HDPE	.04
PVC	.05

Environmental Testing

POLYWATER[®] Lubricant CGL is safe in the aquatic environment and passes CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay.

ProductResultPOLYWATER® Lubricant CGL:PASS ($LC_{50} > 750 \text{ mg/L}$)

Compatibility

Polyethylene Stress Cracking:

POLYWATER[®] Lubricant CGL does not stress crack polyethylene jackets commonly used on communications cables. MDPE and HDPE jacket materials were tested according to ASTM standard method². After 168 hours exposure none of the test specimens showed failures.

² ASTM Test Method D1693, Environmental Stress-Cracking of Ethylene Plastics.



- Compatible with cable jackets—including fire-rated, plenum
- Clean and non-staining

Properties

Appearance:

Opaque-white stringy gel. Light gel viscosity (35,000 -50,000 cps @ 10rpm). Neutral pH (6.5 - 7.5).

Coatability:

Coatability is a measure of the lubricant's ability to coat the jacket as a thin film for continued lubricity on longer pulls.

POLYWATER[®] Lubricant CGL will wet out evenly on cable jacket surfaces. It will not bead up or rub off of the jacket sample. A one-inch (25 mm) diameter XLPE cable dipped six inches (152 mm) into Polywater[®] Lubricant LZ, then withdrawn and held vertically, will retain at least 25 grams of Polywater[®] Lubricant LZ for one minute at 70° F (21° C).

Combustibility:

Lubricant has no flash point and dried residue is non-flammable.

Temperature Use Range:

Communication Gel Lubricant CGL:Wintergrade Lubricant, WCGL20°F to 120°F (-5°C to 50°C)-20°F to 120°F (-30°C to 50°C)

Temperature Stability:

No phase-out after five freeze/thaw cycles or 5-day exposure at 120°F (50°C). Will not phase out or separate during the shelf life of lubricant.

Clean-Up:

Non-staining. Complete clean-up with water.

Storage and Shelf Life:

Store tightly sealed, away from direct sunlight. Lubricant shelf life is one year past the date of manufacture.

Order Information

<u>Cat #</u>	Package Description
CGL-27	1-quart bag (0.95 liter)
CGL-35	1-quart squeeze bottle (0.95 liter)
CGL-55	½-gallon bag (1.9 liter)
CGL-128	1-gallon pail (3.78 Liter) 4/case
CGL-640	5-gallon pail (18.9 Liter)
	Wintergrade
WCGL-128	1-gallon pail (3.78 Liter) 4/case



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