



Wire and Cable Pulling Lubricants

- World's largest and oldest wire and cable pulling lubricant manufacturer
- Wide variety of lubricants to meet applications
- High quality lubes that simplify the jobs





IDEAL History

J. Walter Becker founded IDEAL in 1916 and made a promise that is still and important part of the way IDEAL operates today: "An IDEAL product will provide a value greater than the price paid for it. Service is a part of the product." Becker's foundational principle represents or everyday commitment to you. It's the driving force behind our partnerships with the world's leading distributors, a state of the art delivery system, outstanding customer and technical support and variety of operational benefits designed to save you time and money. It means we're proud of the way we do business.

There are a number of companies out there trying to be all things to all people. What we do is simple; we focus on the needs of electrical and datacomm professionals in our areas of expertise. This formula is the key to providing true value to our customers.

The professionals who use IDEAL products take their job seriously. They expect the same from their equipment. IDEAL brings you products that make your job easier; products that you can rely on, with warranties you can trust; products that are available whenever and wherever you need them. From wire connectors, benders, lubes and fish tape to sophisticated electrical testers, datacomm equipment and ergonomically designed hand tools – every IDEAL product comes with the promise made by our founder more than 85 years ago.



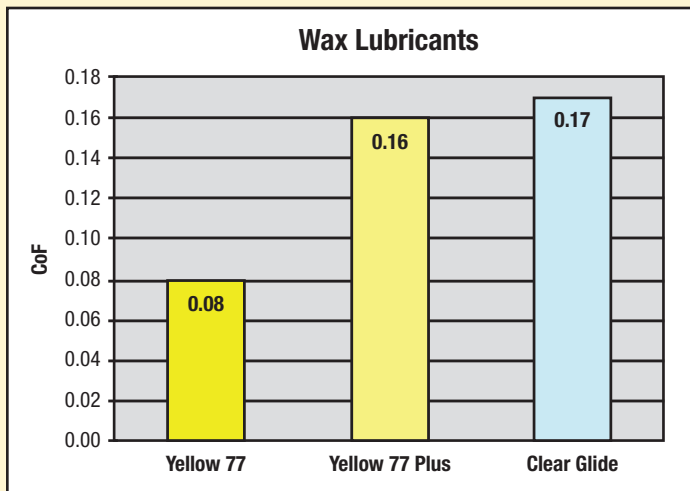
Facilities

Reaching our distributors and customers requires that we have facilities all over the world. IDEAL headquarters are located in Sycamore, Illinois with additional manufacturing plants in Illinois, New Jersey, and Ontario; and international sales facilities in England, Germany, Australia, China and Brazil. Five distribution centers across the U.S. provide quick and accurate deliveries of the IDEAL product line.

Test Results

Why Wax:

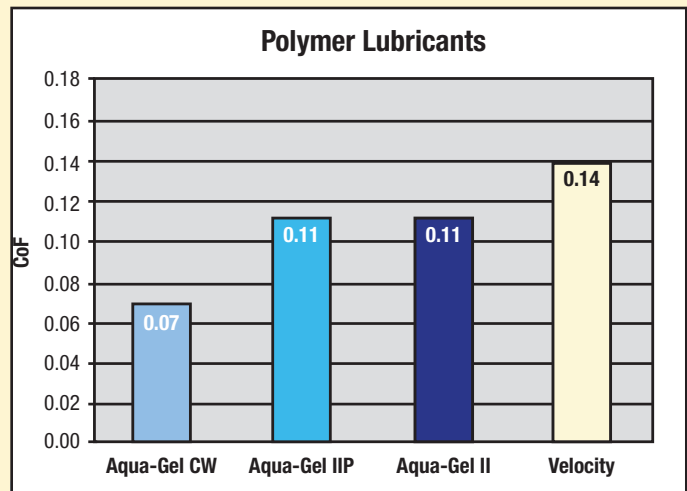
Waxed based lubricants are naturally more slippery than polymer lubricants. Wax based lubes are great for long pulls because they remain wet the longest and will retain enough slipperiness to make re-pulls easier.



The lower the CoF, the more slippery the product.

Why Polymer:

Polymer lubricants are easier to clean up and dry quicker for shorter pulls that need to be completed in a small time frame.



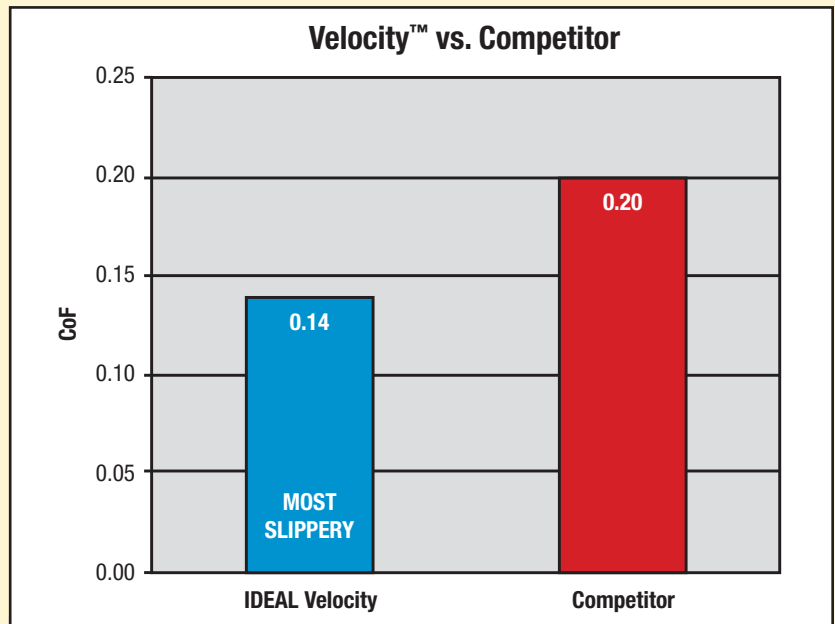
The lower the CoF, the more slippery the product.

The Right Lubricant

	Yellow 77® Plus Wire Pulling Lubricant	Yellow 77® Wire Pulling Lubricant	ClearGlide™ Wire Pulling Lubricant	Aqua-Gel® II Cable Pulling Lubricant	Aqua-Gel® IIP Cable Pulling Lubricant	Aqua-Gel® CW Cable Pulling Lubricant	Velocity™ Cable Pulling Lubricant
Application	General Purpose – Construction & Maintenance	General Purpose – Construction & Maintenance	General Purpose – Construction, Maintenance & Telecommunications	Utility – Construction & Maintenance	Utility – Construction, Maintenance & Telecommunications	For Outdoor Use in Cold Weather – Construction & Maintenance	Utility – Construction & Maintenance
Base	Wax	Wax	Polymer	Polymer	Polymer	Polymer	Polymer
Color	Yellow	Yellow	Clear	Blue	Blue	Bronze	Cream
Job Site	Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Outdoors Only	Outdoors	Indoors or Outdoors
Safe Storage Temperature Range	32°F – 190°F (0°C – 88°C)	32°F – 130°F (0°C – 54°C)	32°F – 180°F (0°C – 82°C)	32°F – 180°F (0°C – 82°C)	32°F – 180°F (0°C – 82°C)	-28°F – 190°F (-33°C – 82°C)	40°F – 140°F (4°C – 82°C)
Application Temperature	40°F – 120°F (4°C – 38°C)	40°F – 120°F (4°C – 38°C)	40°F – 120°F (4°C – 38°C)	40°F – 120°F (4°C – 38°C)	40°F – 120°F (4°C – 38°C)	-28°F – 40°F (-33°C – 4°C)	25°F – 140°F (-3.9°C – 60°C)
COMPATIBILITY (Cable Types):							
Rubber	•	•	•	•	•	•	•
Neoprene	•	•	•	•	•	•	•
Nylon	•	•	•	•	•	•	•
PVC	•	•	•	•	•	•	•
High-density or cross-linked polyethylene	•	•	•	•	•	•	•
Low-density polyethylene	•	•	•	•	•	•	•
Semiconducting jacket	•	•	•	•	•	•	•
Hypalon	•	•	•	•	•	•	•

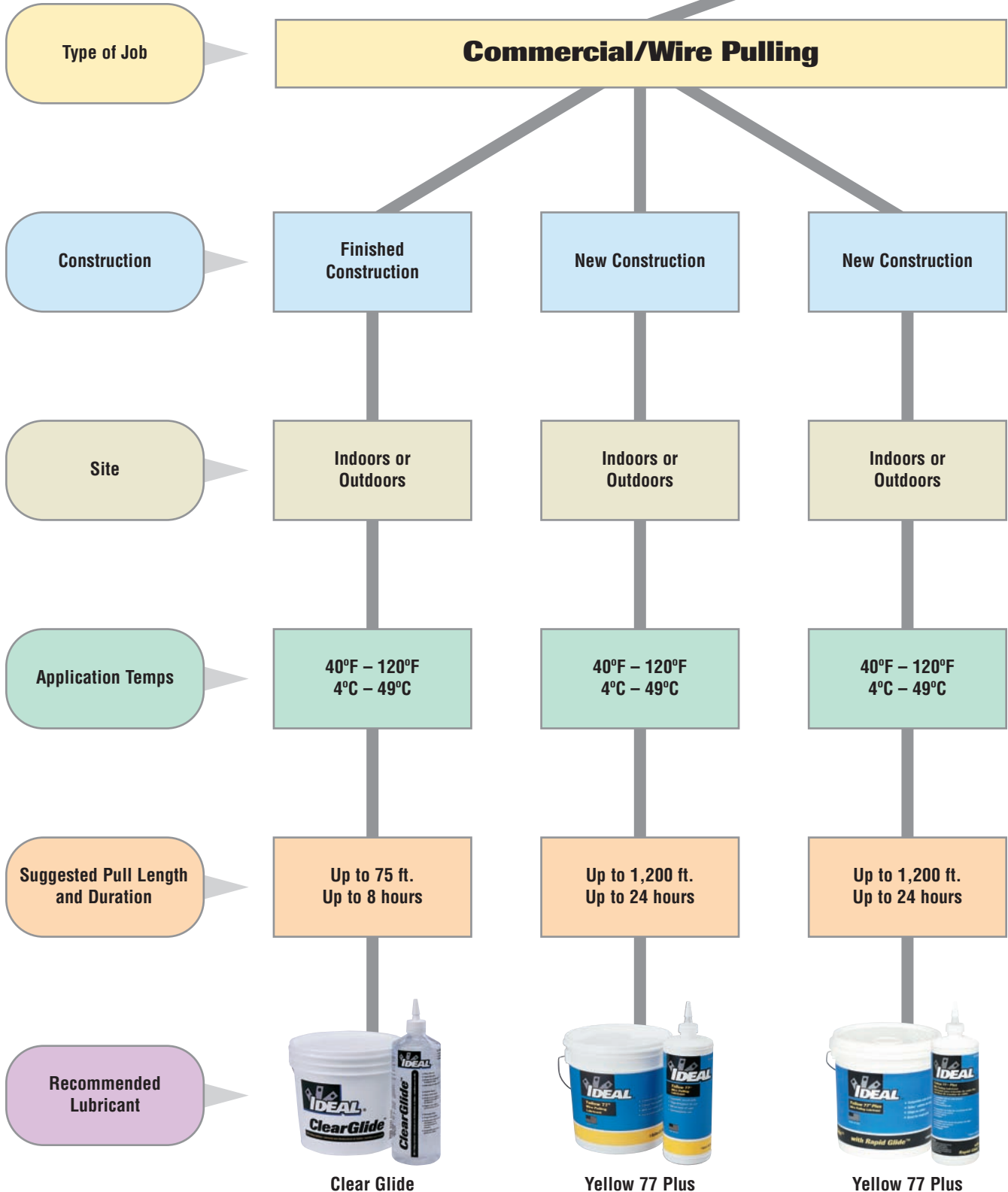
Tribology Testing:

Is the study of friction, lubrication and wear among surfaces in motion. There are three different types of testing which include: field tests, component bench tests and laboratory bench tests. Field tests are performed using the actual materials in the actual field situation. However, developing a field test takes a long time and has the problem of controlling ambient and environmental conditions. Component bench tests use parts of the field application or the actual materials. Laboratory bench tests use geometric contacts but allow more control of ambient conditions. An important aspect of laboratory bench tests is designing a test that closely imitates the field application. To test competitor's wire pulling lubricants versus IDEAL wire pulling lubricants we used the Falex Corporation's Pin on Disk Tribometer System.



The lower the CoF, the more slippery the product.

Select-a-



Clear Glide

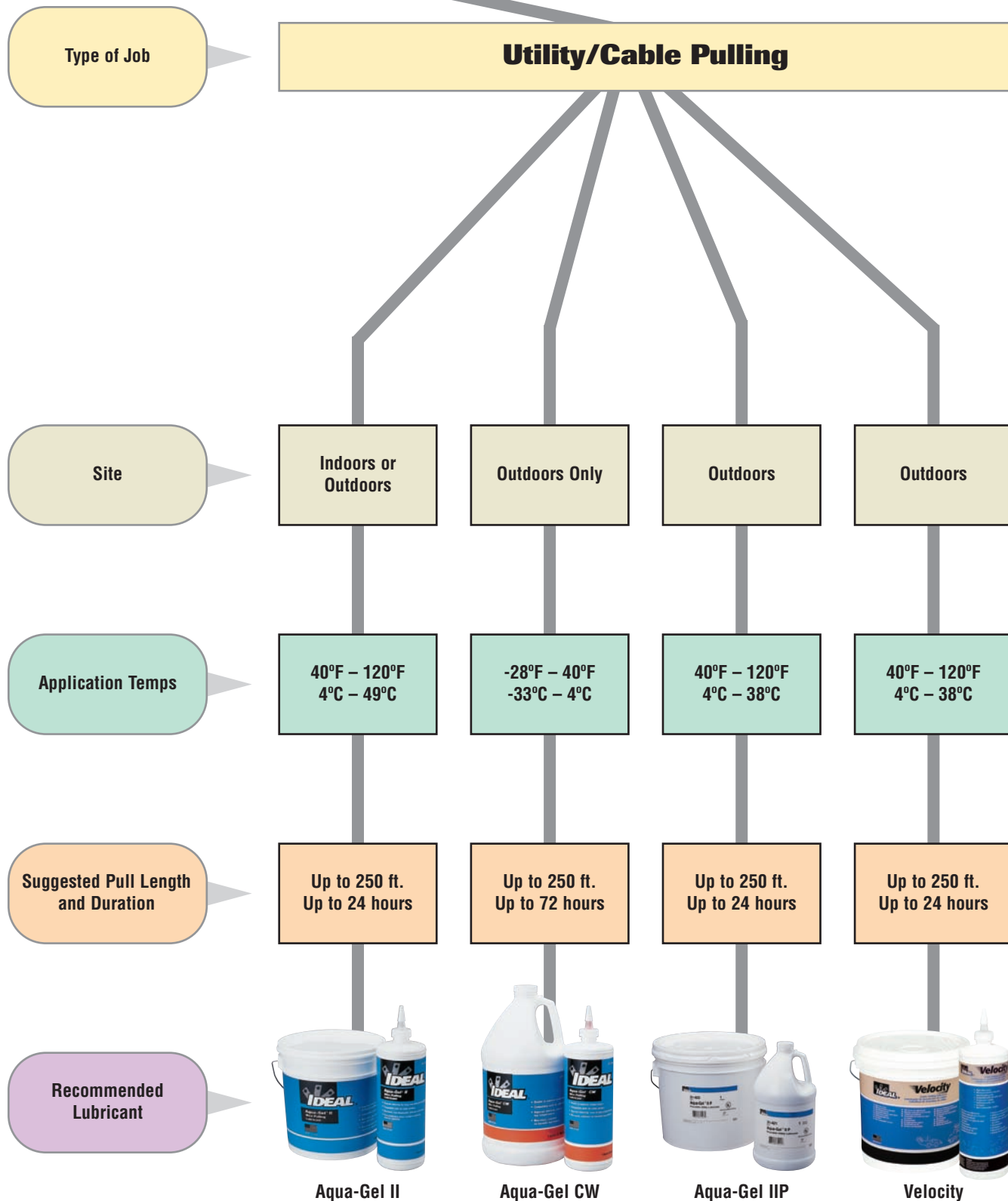


Yellow 77 Plus



Yellow 77 Plus

Lubricant



Type of Job

Utility/Cable Pulling

Site

Indoors or Outdoors

Outdoors Only

Outdoors

Outdoors

Application Temps

40°F – 120°F
4°C – 49°C

-28°F – 40°F
-33°C – 4°C

40°F – 120°F
4°C – 38°C

40°F – 120°F
4°C – 38°C

Suggested Pull Length and Duration

Up to 250 ft.
Up to 24 hours

Up to 250 ft.
Up to 72 hours

Up to 250 ft.
Up to 24 hours

Up to 250 ft.
Up to 24 hours

Recommended Lubricant



Aqua-Gel II



Aqua-Gel CW



Aqua-Gel IIP



Velocity



Utility Installation

Aqua-Gel® CW Cable Pulling Lubricant

- Features the same excellent qualities as Aqua-Gel® II Cable Pulling Lubricant with a lower temperature range for use outdoors in cold weather
- Polymer-based, cold-weather formula remains stable in storage from -28°F to 190°F (-33°C to 82°C)
- Formulated for exterior use in cold weather conditions
- Cleans up easily with soap and water
- Clings to cable throughout long pulls
- Well-suited for hand or poured applications
- Environmentally safe — non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-298
1-gal. Jug	31-291
5-gal. Bucket	31-295



Aqua-Gel® II Cable Pulling Lubricant

- Polymer-based formula provides maximum tension reduction in high-stress electrical and communications cable-pulling operations
- Compatible with all popular cable types except composite rubber
- Cleans up easily with soap and water
- Clings to cable throughout long pulls
- Remains stable over wide temperature range — usable from 28°F to 180°F (-2°C to 82°C)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe – non-toxic, non-flammable and non-corrosive



Description	Cat. No.
1-qt. Squeeze bottle	31-378
1-gal. Bucket	31-371
1-qt. Bag (12 bags per bucket)	31-376
1/2-gal. Bag (6 bags per bucket)	31-377
5-gal. Bucket	31-375
55-gal. Drum	31-3855

Aqua-Gel® IIP Cable Pulling Lubricant

- Features the same excellent qualities as Aqua-Gel® II Cable Pulling Lubricant with a lower viscosity for easy pouring and pumping
- Pourable formula clings to cable – eliminates hand application for a cleaner and safer job
- Compatible with all popular cable types
- Cleans up easily with soap and water
- Environmentally safe – non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-gal. Jug	31-421
5-gal. Bucket	31-425
55-gal. Drum	31-435



Commercial Construction Lube

Velocity™

- High cling factor
- Maximum friction reduction
- Specification grade
- Compatible with all cable types
- Temperature stable
- Environmentally safe
- UL listed
- Non-combustible residue
- Environmentally safe—non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-276
1-gal. Bucket	31-277
5-gal. Bucket	31-278
55-gal. Drum	31-279
1-qt. Bag (12 bags per bucket)	31-282
1/2-gal. Bag (6 bags per bucket)	31-283



ClearGlide™ Wire Pulling Lubricant

- Clear and colorless for quick and easy clean-up — great for indoor and retrofit pulls
- Exceptional lubricity for super-fast pulls
- Polymer-based formula is perfect for all electrical and datacomm applications
- Safe to use with all cable types
- Controlled evaporation rate is ideal for shorter runs
- Remains stable over wide temperature range — usable from 30°F to 180°F (-1°C to 82°C)
- Dries to a semi-fluid film that won't clog conduit
- Easy to apply by hand, brush or pump
- Environmentally safe — non-toxic, non-flammable and non-corrosive



Description	Cat. No.
1-qt. Squeeze bottle	31-388
1-gal. Bucket	31-381
5-gal. Bucket	31-385
4 oz. Squeeze bottle in saleable 6-pack	31-389

Commercial Construction Lube

Yellow 77® Plus Wire Pulling Lubricant

- Rapid Glide™ additive provides greater lubricity than other wax-based lubricants — great for tough pulls
- Safe to use will all popular cable types
- Clings to cable throughout long runs, even where moisture is present
- Remains stable in high temperatures — usable from 30°F to 190°F (-1°C to 88°C)
- Dries slowly to a thin, non-conductive film that won't harden in conduit
- Creamy texture applies easily and uniformly by hand or brush
- Homogeneous blend requires no mixing
- Won't dry out – surface coat forms to control evaporation
- Environmentally safe – non-toxic, non-flammable and non-corrosive

Description	Cat. No.
1-qt. Squeeze bottle	31-398
1-gal. Bucket	31-391
5-gal. Bucket	31-395

Rapid Glide™ Polytetrafluoroethylene



Yellow 77® Wire Pulling Lubricant

- The #1 brand of wire pulling lubricant since 1959 — the perfect general purpose lube
- Wax-based formula provides superior lubricity
- Safe to use with most cable types except low-density polyethylene and semi-conducting jackets
- Clings to cable throughout long pulls, even where moisture is present
- Won't break down or separate after repeated exposure to freezing temperatures
- Dries to a thin, non-conductive film
- Creamy texture applies easily and uniformly by hand or brush
- Homogeneous blend requires no mixing
- Won't dry out — surface coat forms to control evaporation
- Environmentally safe — non-toxic, non-flammable and non-corrosive



Description	Cat. No.
1-qt. Squeeze bottle	31-358
1-qt. Tub	31-350
1-gal. Bucket	31-351
5-gal. Bucket	31-355
55-gal. Drum	31-365

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