

# WIRE LUBRICANTS

## SELECTION GUIDE

### Application Selection

|                   | Commercial                                                                               | Utility                                                                       |
|-------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Temperature Range | 40°F - 120°F<br>(4°C - 49°C)                                                             | -28°F - 120°F<br>(-33°C - 49°C)                                               |
| Length of Run     | Up to 75 ft. (finished construction)<br>Up to 1,200 ft. (new construction)               | Up to 250 ft.                                                                 |
| Installation Time | 8 hrs.                                                                                   | 24 hrs.                                                                       |
| Best Choice       | ClearGlide® (finished construction)<br>Yellow 77® and Yellow 77® Plus (new construction) | Aqua-Gel® II & Velocity™ (indoors, outdoors)<br>Aqua-Gel® CW & IIP (outdoors) |

### Product Selection

|                                           | Yellow 77®                   | Yellow 77® Plus              | ClearGlide®                  | Aqua-Gel® II                  | Aqua-Gel® IIP                 | Aqua-Gel® CW                    | Velocity™                       |
|-------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|-------------------------------|---------------------------------|---------------------------------|
| Color                                     | Yellow                       | Yellow                       | Clear                        | Blue                          | Blue                          | Pink                            | Cream                           |
| Base                                      | Wax                          | Wax                          | Polymer                      | Polymer                       | Polymer                       | Polymer                         | Polymer                         |
| Average Coefficient of Friction*          | .17                          | .16                          | .23                          | .19                           | .19                           | .19                             | .16                             |
| Stability Range                           | 32°F - 130°F<br>(0°C - 54°C) | 32°F - 190°F<br>(0°C - 88°C) | 32°F - 180°F<br>(0°C - 82°C) | 28°F - 180°F<br>(-2°C - 82°C) | 28°F - 180°F<br>(-2°C - 82°C) | -28°F - 190°F<br>(-33°C - 82°C) | 25°F - 140°F<br>(-3.9°C - 60°C) |
| Application Temperature Range             | 40°F - 100°F<br>(4°C - 38°C) | 40°F - 100°F<br>(4°C - 38°C) | 40°F - 100°F<br>(4°C - 38°C) | 40°F - 100°F<br>(4°C - 38°C)  | 40°F - 100°F<br>(4°C - 38°C)  | -28°F - 40°F<br>(-33°C - 4°C)   | 40°F - 140°F<br>(4°C - 82°C)    |
| <b>Compatibility (Cable Types):</b>       |                              |                              |                              |                               |                               |                                 |                                 |
| Rubber                                    | •                            | •                            | •                            | •                             | •                             | •                               | •                               |
| Neoprene                                  | •                            | •                            | •                            | •                             | •                             | •                               | •                               |
| Nylon                                     | •                            | •                            | •                            | •                             | •                             | •                               | •                               |
| PVC                                       | •                            | •                            | •                            | •                             | •                             | •                               | •                               |
| High-density or cross-linked polyethylene | •                            | •                            | •                            | •                             | •                             | •                               | •                               |
| Low-density polyethylene                  |                              | •                            | •                            | •                             | •                             | •                               | •                               |
| Semi-conducting jacket                    |                              | •                            | •                            | •                             | •                             | •                               | •                               |
| Hypalon                                   | •                            | •                            | •                            | •                             | •                             | •                               | •                               |

\*Results from NEETRAC, an independent testing laboratory affiliated with The Georgia Institute of Technology.

### Recommended Qty. of Lubricant Formula

$$Q = .0015 \times L \times D$$

Q = Quantity of recommended lube in gallons

L = Length of pull in feet

D = Nominal ID of conduit in inches



This formula may be used as a guideline for estimating the quantity of lubricant needed for various jobs. Many additional factors may impact quantity needed. Increase quantities if any of the following apply:

- Stiff or heavy cable
- Rough, old, or dirty conduit
- High percent conduit fill
- Pull with several bends
- High temperatures

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