

## Tuff-Grip™ Pro Fish Tapes

- Tuff-Cuff™ tape retaining feature keeps tape properly positioned in the opening
- Full-perimeter handle band helps keep dirt and moisture out, prolonging life
- Easier to install replacement tapes
- Superior pull-out and rewind characteristics
- Exceptionally durable case and handle
- Clean contemporary styling
- Large, comfortable ergonomically-designed handle, grasp from the top or side. Allows for use with gloves.



Width & Thickness	End Type	Cat. No.	Replacement Tape Cat. No.
<b>Blued Steel</b>			
1/8" x .060" x 60'	Formed Hook	<b>31-055</b>	<b>31-035</b>
1/8" x .060" x 120'	Formed Hook	<b>31-056</b>	<b>31-036</b>
1/8" x .060" x 240'	Swivel Ball End	<b>31-225</b>	<b>31-038 &amp; 31-085</b>
1/8" x .060" x 240'	Formed Hook	<b>31-057</b>	<b>31-038</b>
<b>Stainless Steel</b>			
1/8" x .060" x 120'	Formed Hook	<b>31-066</b>	<b>31-073</b>
1/8" x .060" x 240'	Formed Hook	<b>31-067</b>	<b>31-074</b>
<b>S-Class® Nylon Jacketed Fiberglass</b>			
3/16" diameter x 50'	Leader	<b>31-060</b>	<b>31-150</b>
3/16" diameter x 50'	Eyelet	<b>31-062</b>	<b>31-160</b>
3/16" diameter x 100'	Leader	<b>31-061</b>	<b>31-152</b>
3/16" diameter x 100'	Eyelet	<b>31-063</b>	<b>31-162</b>
<b>Nylon Monofilamet</b>			
3/16" diameter x 50'	Eyelet	<b>31-542</b>	<b>31-552</b>
3/16" diameter x 100'	Eyelet	<b>31-544</b>	<b>31-554</b>
<b>Gold-Fish® Brass Plated Steel Coil</b>			
3/16" diameter x 50'	Eyelet	<b>31-144</b>	<b>31-141</b>
<b>Zoom™ Nylon Jacketed Stainless Steel</b>			
3/16" diameter x 50'	Eyelet	<b>31-090</b>	<b>31-091</b>
13/16" diameter x 100'	Eyelet	<b>31-092</b>	<b>31-093</b>

## Thumb Winder™ Fish Tapes

- Convenient 7 in. size can be stored in tool bag
- Durable, impact-resistant ABS case
- Easy-to-use thumb-operated rewind
- 1/8 in. x 0.045 in. steel tape



7 in.

Description	Cat. No.
Steel Tape – 25 ft.	<b>31-012</b>
Steel Tape – 50 ft.	<b>31-010</b>

## Zoom™ Fish Tapes

- Impact-resistant case
- Unique non-slip handle with fingertip grooves
- Omni-directional, round cable design



31-092

Description	Cat. No.	Replacement Tape Cat. No.
Zoom™ Fish Tape – 50 ft.	<b>31-090</b>	<b>31-091</b>
Zoom™ Fish Tape – 100 ft.	<b>31-092</b>	<b>31-093</b>
Zoom™ Fish Tape – 200 ft.	<b>31-096</b>	<b>31-097</b>

## Tuff-Grip™ Fish Tapes

- Large 16 in. case accommodates long tape lengths
- Large, comfortable, durable handle provides secure grip and ease of use
- Durable impact-resistant case



16 in.

Description	Cat. No.	Replacement Tape Cat. No.
S-Class® Fish Tape with Leader – 200 ft.	<b>31-064</b>	<b>31-155</b>
S-Class® Fish Tape with Eyelet – 200 ft.	<b>31-065</b>	<b>31-165</b>
Zoom™ – 200 ft.	<b>31-096</b>	<b>31-097</b>

## Rapid-Pak® Fish Tapes

- Inner rotating reel with winding knob retrieves tape faster than traditional fish tapes for increased labor savings
- Funneled tape opening reduces kinking and tape breakage
- Reversible, hinged knob for right- or left-handed rewinds
- Stationary handle for extra durability
- Textured case surface provides positive grip
- Impact-resistant plastic case



16 in.

Description	Cat. No.	Replacement Tape Cat. No.
Blued Steel tape – 100 ft. x 1/8 in. x .060 in.	<b>31-081</b>	<b>31-036</b>
Blued Steel tape – 200 ft. x 1/8 in. x .060 in.	<b>31-098</b>	<b>31-038</b>
Fiberglass tape w/leader – 50 ft.	<b>31-187</b>	<b>31-150</b>
Fiberglass tape w/leader – 100 ft.	<b>31-186</b>	<b>31-152</b>
Fiberglass tape w/leader – 200 ft.	<b>31-207</b>	<b>31-155</b>
Fiberglass tape w/eyelet – 50 ft.	<b>31-190</b>	<b>31-160</b>
Fiberglass tape w/eyelet – 100 ft.	<b>31-189</b>	<b>31-162</b>
Fiberglass tape w/eyelet – 200 ft.	<b>31-208</b>	<b>31-165</b>
Replacement crank assembly (winder knob)	<b>31-220</b>	—

## Fish Tape Leaders



- Guides fish tape around bends in conduit
- Handles up to six 10 AWG bare wires
- Pulls up to 500 lbs.

Description	Cat. No.
Fish Tape Leader for steel or stainless steel tapes	<b>31-148</b>
Fish Tape Leader for S-Class® Fiberglass Fish Tape	<b>31-159</b>

## Fish Tape Swivel Ball



- Swivels to prevent wires from twisting during pull
- Designed for use on 1/8 in. steel or stainless steel tape
- Eyelet holds up to four 10 AWG bare wires

Description	Cat. No.
Fish Tape Swivel Ball	<b>31-085</b>

## Puller for S-Class® Fiberglass Fish Tapes

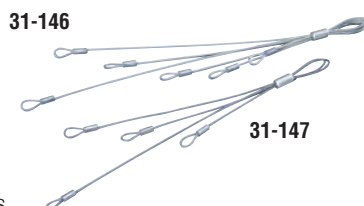
- Non-slip material securely grips fiberglass without damaging material
- Fits into standard 12 in. fish tape case opening when not in use



Description	Cat. No.
Fish Tape Puller	<b>31-170</b>

## Multi-Wire Pulling Leaders

- Pulls multiple wires at one time
- Staggered connection points prevent bunching or hang-ups in tight bends
- 500 lb. working strength at main eyelet and up to 150 lbs. with each individual eyelet



Description	Cat. No.
Multi-Wire Pulling Leader – 6-loop	<b>31-146</b>
Multi-Wire Pulling Leader – 4-loop	<b>31-147</b>

## S-Class® Fiberglass and Zoom™ Fish Tape Field Application Kits

- Crimps on new eyelet or leader in minutes
- Dies can be used with Crimpmaster™ Crimp Tool
- Connection guaranteed to withstand 500 lbs.

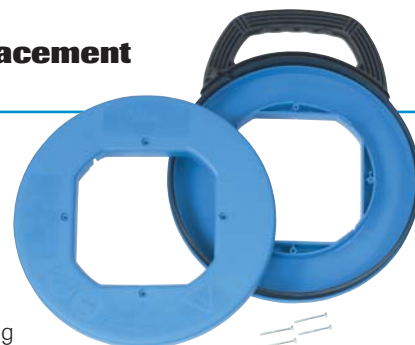


Description	Cat. No.
Field Application Kit includes: Crimpmaster™ Crimp Tool frame, die set, S-Class® eyelets (2), S-Class® leaders (2), Zoom™ eyelets (2) & instant adhesive	<b>31-156</b>
Die Set Kit* includes: eyelets (2), leaders (2) & instant adhesive	<b>31-164</b>
Replacement eyelets (4) for S-Class® Fish Tape	<b>31-158</b>
Replacement eyelets (2) for Zoom™ Fish Tape	<b>31-094</b>
Replacement leaders (4) for S-Class® Fish Tape	<b>31-159</b>
Die Set Only	<b>31-166</b>

\*For those who already have a Crimpmaster™ Crimp Tool

## Fish Tape Replacement Cases

- Durable impact-resistant case
- Easy to install replacement tapes
- Full-perimeter handle band helps prolong life by keeping more dirt and moisture out
- Large, ergonomically designed handle allows for a comfortable grasp from the top or side, and for use with gloves



Screws sold separately, case requires four LA-4218.

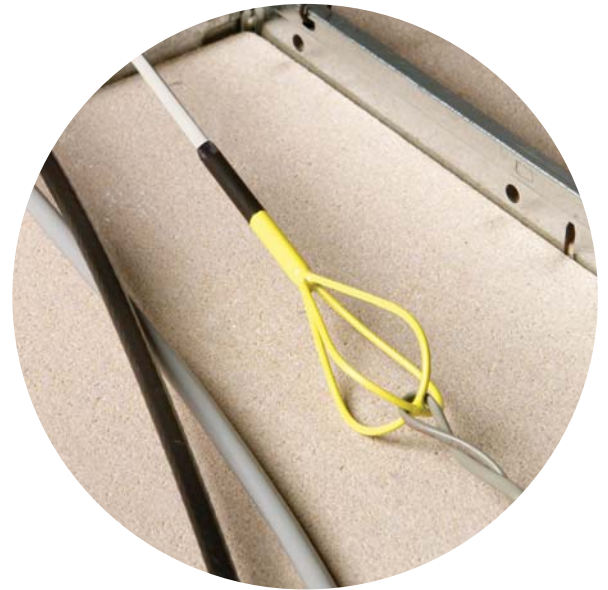
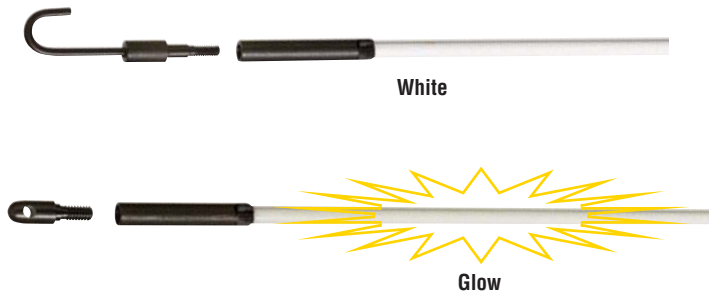
Description	Cat. No.
12" Tuff-Grip™ Pro Replacement Case	<b>K-8985</b>
Replacement Screws	<b>LA-4218</b>

### ! WARNING

Always use approved safety glasses when using this product. Do not use near energized equipment. Electrical shock may occur. Make sure all power is off. Do not use pliers or other tools that may kink, damage, or weaken any round fish tapes such as S-Class®, Nylon or Zoom™. Use only a fish tape puller designed for this purpose. While fish tapes made of fiberglass, nylon or other composite materials are non-conductive, they may have a metal eyelet that is conductive and could be grounded against conduit. Do not use on live electrical circuits. Do not attempt to use fish tape that is fractured or has multiple ends. Keep the fish tape wound in the reel to prevent damage to the tape. Use this product in a safe work position to prevent loss of balance. Never remove the screws from case while fish tape is coiled inside the reel. Failure to follow instructions may result in severe bodily harm or damage to property.

## Tuff-Rod™ Fishing Poles

- Strong, lightweight, flexible extendable fiberglass rod kits
- Use to reach and pull wires over suspended ceilings, in cable trays or through interior walls
- Packaged in clear tubes for protection and long-term storage



Fishing Poles

## Tuff-Rod™ Regular Flex

- 1/4 in. white fiberglass
- Extra stiffness for added control when maneuvering wires

Description	Cat. No.
12 ft. kit with fixed bullet nose and threaded J hook (3 ea. 4 ft. sections)	<b>31-611</b>
24 ft. kit with fixed bullet nose and threaded bullet nose (4 ea. 6 ft. sections)	<b>31-612</b>
12 pack of 1/4 in. x 4 ft. Regular Flex Replacement Rods	<b>31-643</b>
12 pack of 1/4 in. x 6 ft. Regular Flex Replacement Rods	<b>31-644</b>

## Tuff-Rod™ Extra Flex Glow

- 3/16 in. pale green luminescent fiberglass
- Glow-in-the-dark material for easy use in attics, basements and other dim lit areas

Description	Cat. No.
12 ft. kit with fixed bullet nose and threaded J hook (3 ea. 4 ft. sections)	<b>31-631</b>
30 ft. kit with fixed bullet nose and threaded bullet nose (5 ea. 6 ft. sections)	<b>31-633</b>
12 pack of 3/16 in. x 4 ft. Extra Flex Glow Replacement Rods	<b>31-647</b>
12 pack of 3/16 in. x 6 ft. Extra Flex Glow Replacement Rods	<b>31-648</b>

## Accessory Kits

- Includes replacement heads, one threaded bullet nose, one threaded J hook and one threaded wisk



Description	Cat. No.
3/16 in. Accessory kit	<b>31-651</b>
1/4 in. Accessory kit	<b>31-652</b>

## Select-a-Lubricant

### What Are Your Needs?

#### Commercial Wire Pulling

#### Utility Cable Pulling

Finished Construction	New Construction	New Construction	Indoors or Outdoors	Outdoors ONLY	Outdoors	Indoors or Outdoors
Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Indoors or Outdoors	Outdoors ONLY	Outdoors	Indoors or Outdoors
40°F - 120°F 4°C - 49°C	40°F - 120°F 4°C - 49°C	40°F - 120°F 4°C - 49°C	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 - 140°F 4°C - 82°C
Up to 75 ft. Up to 8 hrs.	Up to 1,200 ft. Up to 24 hrs.	Up to 1,200 ft. Up to 24 hrs.	Up to 250 ft. Up to 24 hrs.	Up to 250 ft. Up to 72 hrs.	Up to 250 ft. Up to 24 hrs.	Up to 250 ft. Up to 24 hrs.
ClearGlide™	Yellow 77®	Yellow 77® Plus	Aqua-Gel® II	Aqua-Gel® CW	Aqua-Gel® IIP	Velocity™

### Wire Pulling Lubricant Selection Guide



	ClearGlide™ Wire Pulling Lubricant	Yellow 77® Wire Pulling Lubricant	Yellow 77® Plus Wire Pulling Lubricant	Aqua-Gel® II Cable Pulling Lubricant	Aqua-Gel® CW Cable Pulling Lubricant	Aqua-Gel® IIP Cable Pulling Lubricant	Velocity™ Wire Pulling Lubricant
Base	Polymer	Wax	Wax	Polymer	Polymer	Polymer	Polymer
Average Coefficient of Friction*	.17	.08	.16	.11	.07	.11	.14
Safe Storage Temperature Range	32°F - 180°F (0°C - 82°C)	32°F - 130°F (0°C - 54°C)	32°F - 190°F (0°C - 88°C)	32°F - 180°F (0°C - 82°C)	-28°F - 190°F (-33°C - 82°C)	32°F - 180°F (0°C - 82°C)	40°F - 140°F (4°C - 82°C)
Application Temperature Range	40°F - 100°F (4°C - 38°C)	40°F - 100°F (4°C - 38°C)	40°F - 100°F (4°C - 38°C)	40°F - 100°F (4°C - 38°C)	-28°F - 40°F (-33°C - 4°C)	40°F - 100°F (4°C - 38°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	•	•	•	•	•	•	•

\*Results from Falex Corporation, an independent testing agency specializing in tribology tests, using the Falex-ISC On Disk Tribmeter System machine with the ASTM G99 modified method.



## Yellow 77® Plus Wire Pulling Lubricant

- Rapid Glide™ polytetrafluoroethylene additive provides greater lubricity than other wax-based lubricants — great for tough pulls
- Safe to use with all 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
- Easy to apply by hand or by brush
- Creamy texture applies easily and uniformly
- 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



## 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
- Easy to apply by hand or by brush
- Creamy texture applies easily and uniformly
- 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





## 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
55-gal. Drum	31-2143



## Velocity™ Wire Pulling Lubricant

- High cling factor
- Maximum friction reduction
- Specification grade
- Compatible with all popular cable types
- Temperature stable
- 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/bucket)	31-282
1/2-gal. Bag (6 bags/bucket)	31-283



## Recommended Quantity 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

The formula listed above is used as a guideline on estimating the quantity of lube needed for various jobs. Many factors go into a cable pull, however this formula is just based on length of the pull and diameter of the conduit.

Increase quantities for the following troubles:

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

## 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 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



## 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
55-gal. Drum	31-3373



## 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 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 88°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
- For outdoor use only

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





## Cable Gripping Gloves

- Rubber coating provides positive grip on lubricated cable
- Comfortable fit



Description	Cat. No.
Rubber-Coated Gloves	31-417

## Duct Seal

- Seals around junction boxes, flashings and service entrances
- Permanently soft, non-toxic compound can be painted immediately after application
- Won't adversely affect other plastic materials or corrode metals



Description	Cat. No.
1 lb. Block (10 per carton)	31-601
5 lb. Block (10 per carton)	31-605

## Bender Putter

- Steel shaft with rubber grip and conduit bender-shaped head
- Includes velour pouch to protect head



Description	Cat. No.
Bender Putter	74-999

## IDEAL Wipes™ The Multi-Purpose Towel

- Pre-moistened wipes require no water
- Cleans dirt, grease, lube and grime
- Durable fabric scrubs without tearing
- Infused with natural hand moisturizers and Vitamin E
- Orange citrus scent



Description	Qty.	Cat. No.
IDEAL Wipes™, 12 in. x 9 in.	82/can	38-500

## Noalox® Anti-Oxidant

- Anti-oxidant and anti-seizing compound improves efficiency and service life of aluminum-to-aluminum and aluminum-to-copper electrical connections
- Suspended zinc particles penetrate and cut aluminum oxide
- Provides additional inter-strand and inter-conductor current paths for improved conductivity and cooler connections
- Carrier material excludes air to prevent further oxidation
- For use with all types of pressure-type wire connectors including screw-on, tap, service entrance and split-bolt
- Reduces galling and seizing and promotes good ground continuity on aluminum conduit joints



Description	Cat. No.
1/2-oz. Tube	30-024
4-oz. Squeeze bottle	30-026
8-oz. Squeeze bottle	30-030
8-oz. Brush cap	30-031
1-gal. Bucket	30-032
5-gal. Bucket	30-040

## Twist-a-Nut™ Conduit Deburring Tool



- Deburrs inside and outside edges of 1/2 in., 3/4 in. and 1 in. thin wall conduit
- Hooded tip tightens EMT fitting set screws without slipping
- Square tip "seats" much more quickly on fitting screws than slotted version
- Head removes and is interchangeable with IDEAL 7-in-1 Twist-a-Nut™ Screwdriver shaft (#35-908)
- Head can be used in drill or cordless screwdriver
- Universal Wire-Nut® Wire Connector wrench in handle end eases installation of twist-on connectors
- Lifetime guarantee (excludes blades)



35-098

Description	Cat. No.
Conduit Deburring Tool, slotted tip	35-083
Conduit Deburring Tool - head only, slotted tip	35-096
Conduit Deburring Tool, square tip	35-075
Conduit Deburring Tool - head only, #2 square tip	35-098
Replacement Blades (2/pack)	35-097