



# CABLE PULLING

FROM SIMPLE, STRAIGHT SHOTS TO PULLS WITH MULTIPLE BENDS AND OFFSETS, GREENLEE CABLE PULLING EQUIPMENT SAVES TIME, INCREASES YOUR EFFICIENCY AND SAFELY PULLS CABLE WHERE YOU NEED IT TO BE.

## Contents

Cable Feeders	190
Cable Pullers	191
Tugger Accessories	200
Puller Accessories	201
Cable Tray Accessories	205
Rope	207
Swivels & Rope Connectors	208
Grips	210
Cable Pulling Lubricants	216
Swabs, Brushes, Mandrels	219

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# CABLE FEEDERS

## Ultra Cable Feeder™



### Productive

- One person set-up & operation.

### Heavy Duty



- Accommodates cable ranging in size up to 3.5" (88.9 mm) in diameter.

### Versatile

- Feeds cable at variable speeds to match the speed of cable puller.
- Tires for improved traction with low friction cable.
- Two cable loading methods: Top-loading and End-loading.
- Available with pendant & toggle switch.

### SPECIFICATIONS

<b>Power Supply</b>	115 VAC, 15 amps, 60 Hz 230 VAC, 8 amps, 50/0 Hz								
<b>Speed</b>	4-36 feet per minute (1.2-11 meters per minute)								
<b>Maximum Tractive Force</b>	Single Cable: 200 lbs. (.9 kN) All Cables: 800 lbs. (3.5 kN)								
<b>Cable Capacity</b>	<table border="1"> <thead> <tr> <th>Quantity</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>8 x</td> <td>250 MCM (120 mm<sup>2</sup>)</td> </tr> <tr> <td>6 x</td> <td>500 MCM (240 mm<sup>2</sup>)</td> </tr> <tr> <td>5 x</td> <td>750 MCM (300 mm<sup>2</sup>)</td> </tr> </tbody> </table>	Quantity	Size	8 x	250 MCM (120 mm <sup>2</sup> )	6 x	500 MCM (240 mm <sup>2</sup> )	5 x	750 MCM (300 mm <sup>2</sup> )
Quantity	Size								
8 x	250 MCM (120 mm <sup>2</sup> )								
6 x	500 MCM (240 mm <sup>2</sup> )								
5 x	750 MCM (300 mm <sup>2</sup> )								
<b>Reel Weight Capacity</b>	25,000 lbs. total (11,300 kg)								
<b>Size</b>	41" long x 27.5" wide x 37.5" high (1040 mm x 699 mm x 953 mm)								
<b>Weight</b>	285 lbs. (130 kg)								
<b>Tire Pressure</b>	50psi (2.4 bar)								

CAT. NO.	UPC NO.	DESCRIPTION
6810	05564	Ultra Cable Feeder with Hand Switch 120V
 6810-22	12293	Ultra Cable Feeder with Hand Switch 220V
 05645	05645	Tee (included)

# CABLE PULLERS

## Cable Puller Selection Guide

CAT. NO.	DESCRIPTION	PAGE NO.	PULLING FORCE			SPEED						POWER	REQUIRED ROPE	
			CONTINUOUS	MAXIMUM	WEIGHT	NO LOAD	800 LBS	2000 LBS	4000 LBS	5000 LBS	6000 LBS			8000 LBS
UT10-2S	Ultra Tugger® 10 (UT10) Cable Puller		6500 lbs.	10000 lbs.	86 lbs.	16 fpm		14.0 fpm	12.0 fpm		7.0 fpm	6.0 fpm	1-1/2 HP electric	7/8" double braid
6800	Ultra Tugger™ 8 Power Cable Puller	152	6500 lbs.	8000 lbs.	86 lbs.	9 fpm		8.0 fpm	7.5 fpm		7.0 fpm	6.0 fpm	1-1/2 HP electric	7/8" double braid
6001	Super Tugger® Power Cable Puller	154	4500 lbs.	6500 lbs.	108 lbs.	16.5 fpm		11.0 fpm	7.5 fpm	6.0 fpm			1-1/2 HP electric	3/4" double braid
UT4	Ultra Tugger® 4 Power Cable Puller	155	3000 lbs.	4000 lbs.	175 lbs.	26/13 fpm		20.0 fpm	10.0 fpm				1-1/4 HP electric	9/16" double braid
UT2	Ultra Tugger® 2 Power Cable Puller	156	2000 lbs.	2000 lbs.	67 lbs.	73/41 fpm	36.0 fpm	22.0 fpm					1 HP electric	9/16" double braid
766	Hand Crank Wire Puller	157		1500 lbs.	35 lbs.									†

† - 766 comes with 200 ft. of aircraft-type steel swaged cable.



## Ultra Tugger® 10 (UT10) Cable Puller: 10,000 lb. (44.5kN) rated

**NEW**  
PRODUCT



6906



6900



6901

### Speed

- 2-Speed gear-motor enable 20% faster pulling time.
- Shift from high-speed/low-load pulling to low-speed/high-load pulling with a simple double-tap motion on the foot-pedal.

### Versatile

- Available with Mobile VersiBoom™ for less than 2 minute, one person set-up, & 20' tall.
- Available with floor mount & chain mount for tighter spaces.

### Heavy Duty

- Customized gear motor specifically for heavy-duty cable pulling application and meet UL & cUL safety requirements.

### SPECIFICATIONS

<b>Pulling Force</b>	Maximum: 10,000 lbs. (44.48 kN) Continuous: 6,500 lbs. (28.9 kN)
<b>Dimensions</b>	Length: 11.5" (292 mm) Width: 26" (660 mm)
<b>Height</b>	120V models: 6.75" (172 mm) 220V models: 10.0" (254 mm)
<b>Weight</b>	86 lbs. (39 kg) (08000 only)
<b>Pulling Speed – Feet (Meters) Per Minute</b>	No Load: 16 fpm/min (4.88 mpm) At 2000 lbs. (0.9 kN): 14 fpm (4.27 mpm) At 4000 lbs. (1.8 kN): 12 fpm (3.66 mpm) At 6000 lbs. (2.7 kN): 7 fpm (2.13 mpm) At 8000 lbs. (3.6 kN): 6 fpm (1.8 mpm)
<b>Drive Motor</b>	1-1/2 HP (1.1 kW)
<b>Power</b>	UT10-2S, UT10-22, 6900, 6900-22, 6901, 6901-22, 6906, 6906-22
<b>Requirements</b>	7/8" diameter (22.2 mm); Double-Braided Polyester Composite – Rated at 32,000 lbs. (142 kN) minimum breaking strength

CAT. NO.	UPC NO.	DESCRIPTION
6900	00357	UT10-2S Package with Floor mount
6900-22	00814	UT10-22 (220 V) Package with Floor mount
6901	00358	UT10-2S Package with Chain mount
6901-22	00813	UT10-22 (220 V) Package with Chain mount
6906	00359	UT10-2S Package with Mobile VersiBoom™ II
6906-22	00812	UT10-22 (220 V) Package with Mobile VersiBoom™ II
UT10-2S	05528	Puller Assembly
UT10-22	00829	(220 V) Puller Assembly
00967	00967	Deluxe Force Gauge
34136	34136	7/8" (22.2m) Double braided composite rope – 300'
34137	34137	7/8" (22.2m) Double braided composite rope – 600'
34138	34138	7/8" (22.2m) Double braided composite rope – 1,200'

Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

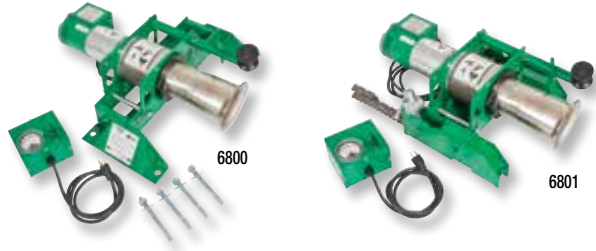
CAT. NO.	UPC NO.	DESCRIPTION	6900	6901	6906
UT10-2S	05528	Puller Assembly (UT10)	x	x	x
00865	00865	Mount Assy-Floor	x		
02846	02846	Chain Mount Ass'y-Pkgd		x	
MVB	00553	Mobile Versi Boom			x



A PRODUCT VIDEO IS AVAILABLE, SCAN THIS QR CODE OR VISIT:  
[www.youtube.com/GreenleeDEMO](http://www.youtube.com/GreenleeDEMO)



## Ultra Tugger® 8 (UT8) Cable Puller: 8000 lb. (35.8kN) rated



### Speed

- 8,000 (35.8 kN) lbs. pulling force to handle most pulling jobs.

### Versatile

- Available with Mobile VersiBoom™ for less than 2 minute, one person set-up, & 20' tall.
- Available with floor mount & chain mount for tighter spaces.

### SPECIFICATIONS

<b>Pulling Force</b>	Maximum: 8,000 lbs. (35.8 kN) Continuous: 6,500 lbs. (28.9 kN)
<b>Dimensions</b>	Length: 11.5" (292 mm) Width: 26" (660 mm)
<b>Height</b>	120V models: 6.75" (172 mm) 220V models: 10.0" (254 mm)
<b>Weight</b>	86 lbs. (39 kg) (08000 only)
<b>Pulling Speed – Feet (Meters) Per Minute</b>	No Load: 9 fpm (2.7 mpm) At 2000 lbs. (0.9 kN): 8 fpm (2.4 mpm) At 4000 lbs. (1.8 kN): 7.5 fpm (2.3 mpm) At 6000 lbs. (2.7 kN): 7 fpm (2.1 mpm) At 8000 lbs. (3.6 kN): 6 fpm (1.8 mpm)
<b>Drive Motor</b>	1-1/2 HP (1.1 kW)
<b>Power</b>	8000, 6800, 6801 =120 VAC 60Hz 20A
<b>Requirements</b>	UT8-22, 6800-22 = 220 VAC 50Hz
<b>Required Rope</b>	7/8" diameter (22.2 mm); Double-Braided Polyester Composite – Rated at 32,000 lbs. (142 kN) minimum breaking strength

CAT. NO.	UPC NO.	DESCRIPTION
6800	00985	Ultra Tugger 8 Cable Puller with Standard Force Gauge, and Floor Mount
6800-22	03196	Same as 6800, except 220 VAC 50 Hz
6801	00986	Ultra Tugger 8 Cable Puller with Standard Force Gauge, and Conduit Chain Mount
6806	00362	UT8 Package with Mobile VersiBoom™ II
6806-22	00369	UT8-22 (220 V) Package with Mobile VersiBoom™ II
08000	08000	Cable Puller (6800)
00967	00967	Deluxe Force Gauge (see page 158)
34136	34136	Pull Rope 7/8" x 300' (22.2 mm x 91 m)
34137	34137	Pull Rope 7/8" x 600' (22.2 mm x 182 m)
34138	34138	Pull Rope 7/8" x 1,200' (22.2 mm x 365 m)

CAT. NO.	UPC NO.	DESCRIPTION	6800	6801	6806
08000	08000	Cable Puller (6800)	x	x	x
00865	00865	Mount Assy-Floor	x		
02846	02846	Chain Mount Ass'y-Pkgd		x	
MVB	00553	Mobile Versi Boom			x

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## Mobile VersiBoom™ II

**NEW  
PRODUCT**



Mobile VersiBoom™ II shown with Ultra Tugger® 10, sold separately.

(Does not include UT10)

### Quick Set-Up

- One person set-up in less than 2 minutes.

### Versatile

- Can be extended up to 20'.
- Use with one 3' boom for tighter spaces.
- Use with 2"-5" slip-on adapters and 2"-4" threaded adapters.

### Easy to store and transport

- Can be folded up in less than 2 minutes and can be stored on the back of a pick-up truck.
- Fully contained unit.

### SPECIFICATIONS

<b>Weight</b>	322 lbs. (146.06 kg)
<b>Length</b>	47" (1193.8mm)
<b>Width</b>	42" (1066.8 mm)
<b>Height</b>	48" (1219.19 mm)

CAT. NO.	UPC NO.	DESCRIPTION
MVB	00553	Mobile VersiBoom™ II
00560	00560	4' boom
00561	00561	3' Boom
00562	00562	Elbow/Nose Assembly
00564	00564	2-1/2" Adapter
00565	00565	3" Adapter
00567	00567	4" Adapter
00588	00588	Short Hanger
00589	00589	Long Hanger

## Mobile VersiBoom™ II Components/Accessories



CAT. NO.	UPC NO.	DESCRIPTION	SHIPS WITH MVB II
A 00471	00471	Coupling Hanger Kit	
A 00563	00563	Adapter Weldment, 2" (UT8)	
R 00564	00564	Adapter Weldment, 2-1/2"	✓
R 00565	00565	Adapter Weldment, 3" (UT8)	✓
A 00566	00566	Adapter Weldment, 3-1/2"	
R 00567	00567	Adapter Weldment, 4" (UT8)	✓
A 00568	00568	5" Adapter	
A 00583	00583	Adapter Assembly, 2" Screw-On	
A 00584	00584	Adapter Assembly, 2-1/2" Screw-On	
A 00585	00585	Adapter Assembly, 3" Screw-On	
A 00586	00586	Adapter Assembly, 3-1/2" Screw-On	
A 00587	00587	Adapter Assembly, 4" Screw-On	
R 00588	00588	Hanger Weldment, Short	✓
R 00589	00589	Hanger Weldment, Long	✓
A 00590	00590	Screw On Coupling Kit	
A 00610	00610	Adapter Weldment, 5" (UT8)	
R 00561	00561	3' Boom	✓
R 00560	00560	4' Boom	✓

Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## Super Tugger® Cable Puller: 6500 lb. (28.9 kN) rated



6001



6005



6004

- Pull up to 6,500 lbs. (28.9 kN) with less than 27 lbs. (120 N) of operator effort.
- Unique floor mounting attachment for quick, reliable setup.
- Leaf-type mounting chains won't twist when tightening.
- Heat-treated steel serrated gripper feet for secure mounting to conduit.
- Right-angle sheave allows the operator to stand out of the direct line of force.
- Audio alarm high force warning and circuit breaker shut off at maximum force for added safety.
- Tapered capstan and patented rope guidance system for better control of the rope when feeding onto the capstan.
- Patented.

### SPECIFICATIONS

<b>Pulling Force</b>	Maximum: 6,500 lbs. (28.9 kN) Continuous: 4,500 lbs. (20 kN)
<b>Dimensions</b>	Length: 20-3/4" (527 mm) Width: 22-1/2" (572 mm) Height: 12" (305 mm)
<b>Weight</b>	6001, 6001-22: 108 lbs. (49 kg) 6003: 454 lbs. (206 kg) 6000, 6000-22: 550 lbs. (250 kg) 6006, 6006-22: 612 lbs. (278 kg)
<b>Pulling Speed – Feet (Meters) Per Minute</b>	No Load: 16.5 (5) At 2000 lbs.: (8.8 kN) – 11 (3.4) At 4000 lbs.: (17.9 kN) – 7.5 (2.3) At 6000 lbs.: (26.7 kN) – 6 (1.8)
<b>Drive Motor</b>	1-1/2 HP (1.1 kW)
<b>Power Requirements</b>	6001, 6004, 6005 – 120 VAC 16Hz 20A 6001-22 – 220 VAC 50Hz
<b>Required Rope</b>	3/4" (19.1 mm) Double-Braided Composite – Rated at 26,000 lbs. (115.6 kN)

	CAT. NO.	UPC NO.	DESCRIPTION
	6001	29627	Super Tugger Cable Puller Power Unit, Includes force gauge and vise chains
	6001-22	31466	Same as 6001 except 220 VAC 50 HZ
	6004	56358	Super Tugger Complete Puller Package, Includes 6001 Super Tugger, Floor Mount, Mobile Carriage, Boom Mount, 4' Boom Tube, Nose Unit, 2 1/2", 3", 3 1/2", 4" Slip-in and Screw-On Couplings & Storage Trays
	6005	56359	Super Tugger Complete Puller Package, Includes 6001 Super Tugger, Floor Mount, Mobile Carriage, Boom Mount, 4' Boom Tube, Nose Unit, 3' Boom Tube, Elbow Unit, 2 1/2", 3", 3 1/2", 4" Slip-in and Screw-On Couplings and Storage Trays
	35098	35098	Double-Braided Composite Rope 3/4" × 300' (19.1 mm × 91 m)
	35100	35100	Double-Braided Composite Rope 3/4" × 600' (19.1 mm × 182 m)
	35101	35101	Double-Braided Composite Rope 3/4" × 1,200' (19.1 mm × 365 m)
	3048	23362	Storage Box (See page 410)
	11147	11147	Ultra Tugger 640/6001 Adapter Package Includes wheeled carriage, 4 ft. (1.2 m) boom, boom adapter, nose unit, 2-1/2", 3" and 4" slip-in couplings and 2", 3" and 4" screw-on couplings
	3048	23362	Storage Box

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## 11147 Ultra Tugger® 6001 Adapter Package



- Adapt 6001 Super Tugger to Ultra Tugger Wheeled Carriage and Boom for faster and easier cable puller setups.
- Wheeled carriage and boom provides fast setup with no anchors to set or chains to mount.
- Boom uses 3" rigid steel conduit for easy length adjustment to pull 10 feet (3m) of cable out of the box fast and easy.
- Optional Elbow Unit and Boom available to reach into manholes or pull up to 20 feet (6 m) of cable out of the box.

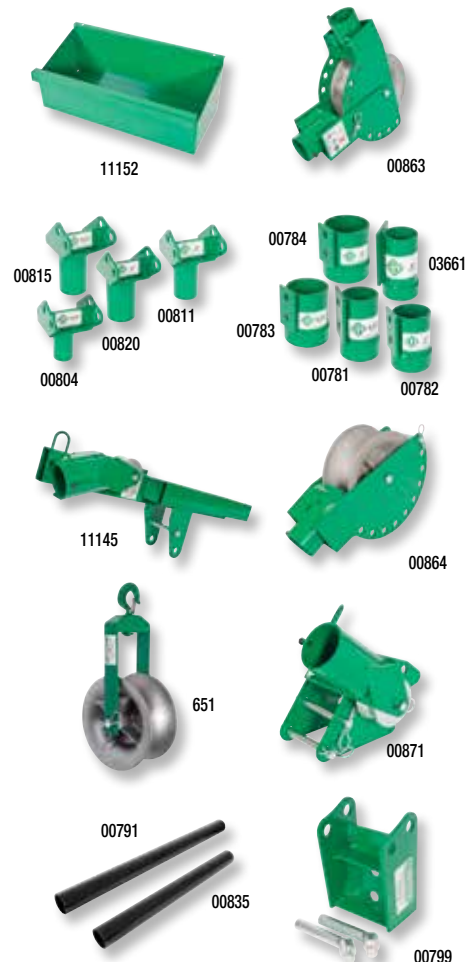
### SPECIFICATIONS

<b>Weight</b>	198 lbs. (90 kg)
<b>Length</b>	91-1/2" (232 cm)
<b>Width</b>	27" (69 cm)
<b>Height</b>	38-1/2" (98 cm)
<b>Use With</b>	Greenlee 6001 Cable Pullers
<b>Load Rating</b>	6500 lbs. (28.9 kN)

CAT. NO.	UPC NO.	DESCRIPTION
11147	11147	Ultra Tugger 640/6001 Adapter Package Includes wheeled carriage, 4 ft. (1.2 m) boom, boom adapter, nose unit, 2-1/2", 3" and 4" slip-in couplings and 2", 3" and 4" screw-on couplings

## Package Components

CAT. NO.	UPC NO.	DESCRIPTION	SUPER TUGGER - 6,500 LB			
			110 VAC		220 VAC	
			6001	6004	6005	6001-22
6001	29627	Cable Puller w/Force Gauge 120 VAC, 60 Hz	✓	✓	✓	
6001-22	31466	Cable Puller w/Force Gauge 220 VAC, 50 Hz				✓
6037	35605	Floor Mount		✓	✓	
29631	29631	Vise Chains	✓	✓	✓	✓
11230	11230	Wheeled Carriage		✓	✓	
11145	11145	Boom Mount		✓	✓	
00791	00791	4' (1.2 m) Boom Tube		✓	✓	
00864	00864	Nose Unit		✓	✓	
00863	00863	Elbow Unit			✓	
00835	00835	3' (.9 m) Boom Tube			✓	
03661	03661	2" Screw-On Coupling				
00781	00781	2-1/2" Screw-On Coupling		✓	✓	
00782	00782	3" Screw-On Coupling		✓	✓	
00783	00783	3-1/2" Screw-On Coupling		✓	✓	
00784	00784	4" Screw-On Coupling		✓	✓	
00799	00799	Adapter for Screw-On Coupling		✓	✓	
00804	00804	2-1/2" Slip-In Coupling		✓	✓	
00811	00811	3" Slip-In Coupling		✓	✓	
00815	00815	3-1/2" Slip-In Coupling		✓	✓	
00820	00820	4" Slip-In Coupling		✓	✓	
11152	11152	Storage Trays (2)		✓	✓	
651	15325	12" Hook Sheave				

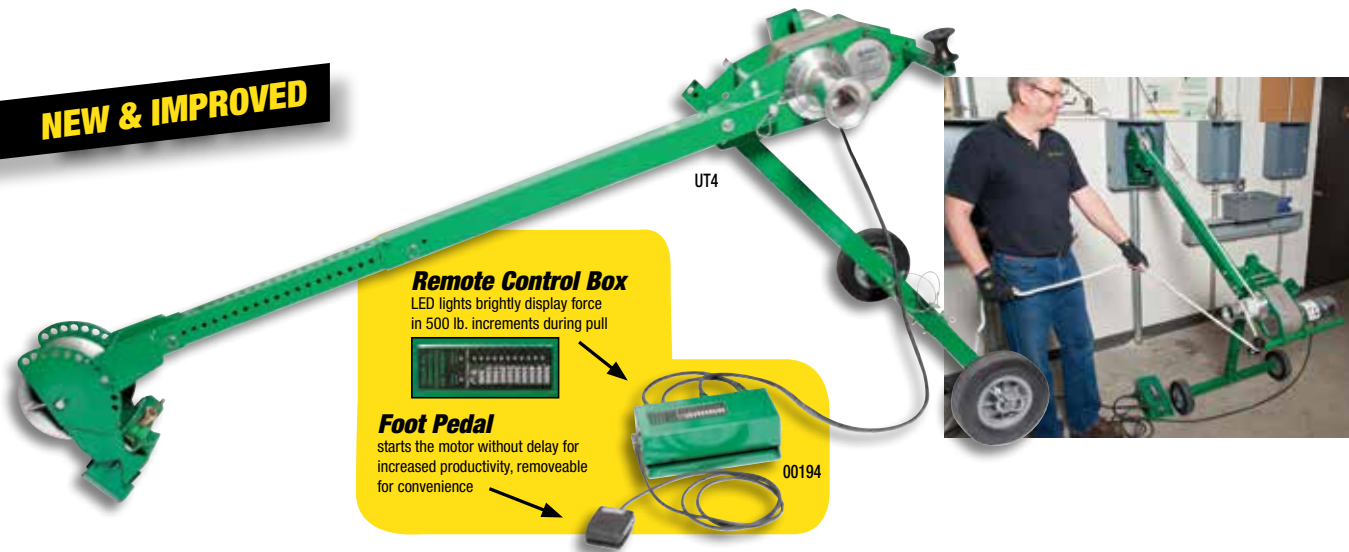


Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.



## Ultra Tugger® 4 (UT4) Cable Puller: 4,000 lb. (22.2kN) Rated

**NEW & IMPROVED**



Connect for an upward pull



Connect for an downward pull



Connect at floor height



Optional 12' boom extension for high pulls



Optional floor mount

### Speed

- 2 speed gear-box can pull 20 fpm at 2000 lbs. and 10 fpm on low speed at 4000 lbs.

### Versatile

- Available with floor mount option for use in tight spaces.
- Boom extends to 8'. A 12' boom extension accessory is available.

### Quick Set-up

- Quick latch system attaches to the outside of threaded and unthreaded conduit without need for adapters.

### SPECIFICATIONS

<b>Maximum Pulling Force</b>	High Speed 2,000 lbs. (909 kg) Low Speed 4,000 lbs. (1,818 kg)
<b>Continuous Pulling Force:</b>	Low Speed 3,000 lbs. (1,364 kg)
<b>High Pulling Speeds:</b>	No Load 26 fpm (8 mpm) 2,000 lbs. (909 kg) 20 fpm (6 mpm)
<b>Low Pulling Speeds:</b>	No Load 13 fpm (4 mpm) 2,000 lbs. (909 kg) 10 fpm (3 mpm)
<b>*Pulling Rope:</b>	9/16" diameter double braided composite (16,000 lbs. minimum breaking strength)
<b>Conduit Size:</b>	2" to 4"
<b>Weight:</b>	175 lbs. (80kg)
<b>Drive Motor:</b>	1-1/4 hp, 120 VAC, 60 Hz
<b>Electrical Plug:</b>	120 V, 15 Amp
<b>Force Gauge:</b>	Standard
<b>Foot Switch:</b>	Standard
<b>Standard Boom Extension:</b>	8' (2.4 m) maximum
<b>Optional Long Boom Extension:</b>	12' (3.6 m) maximum
<b>Pulling Capability:</b>	3 x 750 kmil cable 600' with 2 x 90° bends 4 x 350 kmil cable 400' with 4 x 90° bends 3 x 500 kmil cable 400' with 3 x 90° bends

\* Greenlee recommends that only low stretch double braided composite rope be used with the UT4. High stretch ropes can release large amounts of energy should they break during use.

CAT. NO.	UPC NO.	DESCRIPTION
UT4	21552	4,000 lb. Cable Puller
UT4F	00154	UT4 Puller Package with Floor Mount
UT4-22	00644	4,000 lb. Cable Puller - 220 Volt
UT4F-22	00884	UT4 Puller Package with Floor Mount - 220 Volt
A 10014	10014	Floor Mount for UT4 Cable Puller
A 10015	10015	12' Long Extension Boom for UT4 Cable Puller
A 35283	35283	Double-Braided Composite Rope 9/16" x 300' (14.3 mm x 91 m)
A 35284	35284	Double-Braided Composite Rope 9/16" x 600' (14.3 x 182 m)
A 35285	35285	Double-Braided Composite Rope 9/16" x 1,200 (14.3 mm x 365 m)
A 3048	23362	Storage Box
A 2142	31651	Storage Box (requires boom to be removed from puller)
00149	00149	UT-4 Nose Retrofit Kit
00194	00194	UT-4 Control Box Retrofit Kit

Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## Ultra Tugger® 2 Cable Puller: 2000 lb. (8.8 kN) Rated



- Quick Latch System attaches to all conduit sizes with no loose parts.
- Adjustable elbow and extendable boom adjust easily to fit your job needs.
- Right Angle Sheave keeps operator out of direct line with the pulling rope.
- Dual Diameter capstan provides 2 pulling speeds.
- Cross Tube provides a solid base for setup and during pull.
- Integral Motor designed specifically for cable pulling applications.
- Circuit Breaker stops the puller motor if it becomes overloaded.
- Wheels provide easy movement around jobsite.

### SPECIFICATIONS

<b>Pulling Force</b>	High Speed Capstan	1,000 lb. (455 kg) continuous
	Low Speed Capstan	2,000 lb. (909 kg) continuous
<b>Drive Motor</b>	120 VAC, 50/60 Hz, 12 Amps	
<b>Weight</b>	67 lbs.	
<b>Pulling Speeds</b>	High Speed Capstan	
	No Load:	73 fpm (22 mpm)
	500 lb. Load (227 kg):	36 fpm (11 mpm)
	1,000 lb. Load (455 kg):	22 fpm (7 mpm)
Low Speed Capstan		
No Load:	41 fpm (12 mpm)	
1,000 lb. Load (455 kg):	36 fpm (11 mpm)	
2,000 lb. Load (909 kg):	22 fpm (7 mpm)	
<b>Pulling Rope</b>	1/2" polyester (10,000 lb. minimum breaking strength)	
	*Greenlee recommends that only low stretch polyester rope be used with the UT2. High stretch ropes can release large amounts of energy should they break during use.	
<b>Conduit Size</b>	1" or larger	
<b>Pulling Capabilities</b>	3 x 500 kcmil cable 500' with 2 x 90° bends	
	3 x 500 kcmil cable 250' with 4 x 90° bends	
	8 x 4/0 AWG cable 300' with 3 x 90° bends	

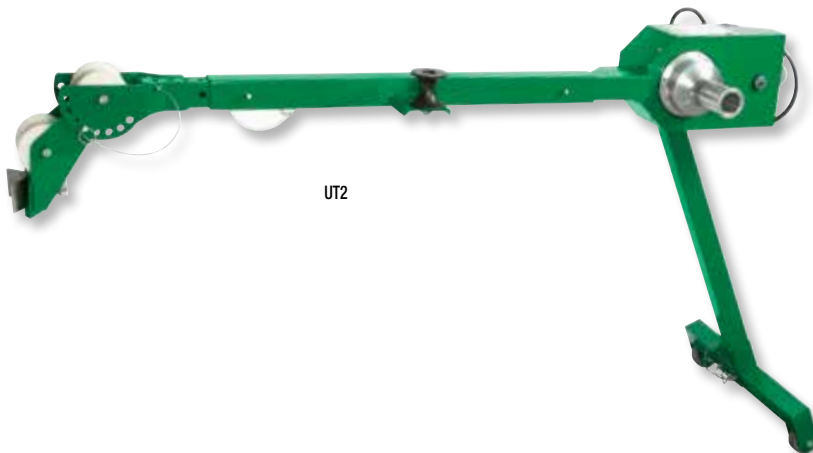


UP PULL

DOWN PULL

SIDE PULL

CAT. NO.	UPC NO.	DESCRIPTION
UT2	02010	2,000 LB. Cable Puller Unit
A 56362	56362	Trailer hitch adapter (fits 2" receiver)
A 2448	23273	Storage Box
A 455	23774	1/2" x 300' (12.7 mm x 91 m) Double Braided Rope
A 456	23777	1/2" x 600' (12.7 mm x 182 m) Double Braided Rope



UT2



56362

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## Hand Crank Wire Puller



- Pull up to 1500 lbs. (6.7 kN) with only 30 lbs. (133 N) of crank handle force.
- Two-speed ratchet winder for fast, efficient operation.
- Has 200' (61 m) of steel aircraft cable.
- Completely self-contained and ready to operate.

### SPECIFICATIONS

<b>Pulling Force</b>	Maximum - 1500 lbs. (6.6 kN)
<b>Size</b>	200' (61 m) pulling cable length
<b>Weight</b>	38 lbs. (17.2 kg)
<b>Power</b>	Manual - 2-Speed Hand Crank
<b>Dimensions</b>	Length - 52" (1.32 m)
	Width - 18" (457 mm)
	Height - 10" (254 mm)

CAT. NO.	UPC NO.	DESCRIPTION
766	18202	Hand Crank Wire Puller
50954	50954	200' (61 m) spool of steel cable
13955	14568	Shear Pin
28280	28280	Crank Handle Assembly

# TUGGER ACCESSORIES

## Deluxe Force Gauge






- Measures tension on the rope, to an accuracy of  $\pm 5\%$ .
- Accuracy is not affected by initial rope size, or the change in rope size as it is loaded.
- 0-10 VDC Analog output to optional strip chart recorder for permanent record of pulling force.
- Switchable 120VAC receptacle for chart recorder.
- Use with pulling rope up to 7/8" diameter (22.2 mm) maximum. Also use with Kevlar® tape.

### SPECIFICATIONS

**Deluxe Force Gauge** Accuracy  $\pm 5\%$

- Use with any puller that uses Versi-Boom system.  
Including : 6005, 6004, 645 and 643

CAT. NO.	UPC NO.	DESCRIPTION
00967	00967	Deluxe Force Gauge
 33901	33901	Strip Chart Recorder
 22410	22410	Fan Fold Chart Paper- 15 pack
 22451	22451	Recorder Pens- 5 pack

## Cable Pull Force Estimator

**NEW PRODUCT**



- Calculates estimated cable pulling force requirements based on user inputs
- Simple to follow instructions included on the calculator
- Consists of an Excel based calculator that can be used either from the supplied CD or downloaded.
- Works with Windows 7, Vista, XP and Mac OS.

CAT. NO.	UPC NO.	DESCRIPTION
PF8	20956	Cable Pull Force Estimator* (CD-ROM)

\*Microsoft® Excel Required

## Foot Switch for Cable Pullers

**NEW PRODUCT**



- Use with UT2, 640, 6001, 6500 or 6800 cable pullers to add foot control.
- Foot pressure required to operate.

### SPECIFICATIONS

**Power Source** 120 VAC  
**Weight** 3.5 lbs. (1.6 kg)

CAT. NO.	UPC NO.	DESCRIPTION
444	01874	Foot Switch

# PULLING ACCESSORIES

## Hook Sheaves - 8,000lb Capacity



- For use with UT8, UT5, 6001, UT4 and UT2 cable pullers.
- Strong, welded steel frames.
- Forged steel closure type hooks with 1" (25.4 mm) opening.
- All three sheaves are aluminum alloy with self-lubricating bearings.

SHEAVE	8012		8018		8024	
	DIAMETER		DIAMETER		DIAMETER	
	12" (304.8 MM)		18" (457.2 MM)		24" (609.6 MM)	
DESCRIPTION	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.
Roll Pin	50700	50700	50700	50700	50700	50700
Sheave Pin	00838	00838	00838	00838	00838	00838
Sheave Pin Clip	50302	50302	50302	50302	50302	50302
Sheave Unit	00843	00843	00843	00843	00843	00843
Yoke Frame	00854	00854	00854	00854	00854	00854

### SPECIFICATIONS

CAT. NO.	UPC NO.	OUTSIDE DIAMETER	INSIDE RADIUS	WIDTH	WEIGHT	MAXIMUM RATED CAPACITY
8012	00872	12" (304.8 mm)	3-7/8" (98.4 mm)	5" (127 mm)	28 lbs (12.7 kg)	8,000 lbs. (35.8 kN)
8018	00873	18" (457.2 mm)	7" (177.8 mm)	6" (152.4 mm)	44 lbs (19.9 kg)	8,000 lbs. (35.8 kN)
8024	00874	24" (609.6 mm)	9-7/8" (250.8 mm)	6-1/2" (165.1 mm)	67 lbs (30.3 kg)	8,000 lbs. (35.8 kN)

## Hook-Type Sheaves - 4,000lb Capacity



- Strong, welded steel frames.
- Forged steel closure-type hooks with 1" (25.4 mm) opening.
- 5" (127 mm) wide aluminum alloy sheaves with self-lubricating bearings.
- Select a sheave with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	DESCRIPTION
650	15324	6" (152.4 mm) dia. Hook Sheave with 1-1/2" (38.1 mm) min.radius
651	15325	12" (304.8 mm) dia. Hook Sheave with 3-5/16" (84.1 mm) min. radius
652	15326	18" (457.2 mm) dia. Hook Sheave with 7" (177.8 mm) min. radius
653	15327	24" (609.6 mm) dia. Hook Sheave with 9-13/16" (249.2 mm) min. radius

### SPECIFICATIONS

<b>Maximum Rated Capacity</b>	4,000 lbs. (17.8 kN)
<b>Weight</b>	650 - 8.8 lbs. (4 kg) 651 - 15 lbs. (6.8 kg) 652 - 25 lbs. (11.3 kg) 653 - 35 lbs. (15.9 kg)

SHEAVE	650		651		652		653	
	DIAMETER		DIAMETER		DIAMETER		DIAMETER	
	6" (152.4 MM)		12" (304.8 MM)		18" (457.2 MM)		24" (609.6 MM)	
DESCRIPTION	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.
Sheave Pin	16797	16797	16797	16797	16797	16797	16797	16797
Sheave Pin Clip (2)	50302	50302	50302	50302	50302	50302	50302	50302
Sheave	15362	15362	15358	15358	15363	15363	15364	15364
Sheave Bushing (2)	16798	16798	16798	16798	16798	16798	16798	16798
Yoke Frame	16799	16799	16800	16800	16801	16801	16802	16802

## Right-Angle Twin Yoke Sheave - 4,000lb Capacity



- 9-13/16" (249 mm) minimum radius.
- Strong welded steel yokes.
- Forged steel closure type hook with 1" (25.4 mm) opening.
- 5" (127 mm) wide aluminum alloy sheave with self-lubricating bearings.
- Yokes rotate independently to fit various setups.
- Use with any cable puller whose maximum pulling force is 4,000 lbs. (17.8 kN) or less.

CAT. NO.	UPC NO.	DESCRIPTION
639	17265	Right Angle Twin Yoke Sheave with 9-13/16" (249 mm) min. radius

### SPECIFICATIONS

<b>Maximum Rated Capacity</b>	4,000 lbs. (17.8 kN)
<b>Weight</b>	45 lbs. (20.4 kg)

SHEAVE	6036		
	DESCRIPTION	CAT. NO.	UPC NO.
Sheave Pin	17266	17266	1
Sheave Pin Clip	50302	50302	2
Sheave	15364	15364	1
Sheave Bushing	16798	16798	2
Yoke Frame	17299	17299	2

## Conveyor Sheaves - 4,000lb Capacity



- Welded steel frame with a series of sheaves to form a large radius.
- Yokes with cast steel closure-type hooks with a 1" (25.4 mm) opening.
- 5" (127 mm) wide aluminum alloy sheaves.
- Use with any cable puller whose maximum pulling force is 4,000 lbs. (17.8 kN) or less.

### SPECIFICATIONS

<b>Maximum Pulling Force</b>	4,000 lbs. (17.8 kN)
<b>Weight</b>	4024 - 54 lbs. (24.5 kg)
	4036 - 60 lbs. (27 kg)
	4048 - 83 lbs. (38 kg)

CAT. NO.	UPC NO.	DESCRIPTION
4024	26368	24" (609.6 mm) Conveyor Sheave with 6 sheave wheels
4036	26369	36" (914.4 mm) Conveyor Sheave with 8 sheave wheels
4048	26370	48" (1219 mm) Conveyor Sheave with 10 sheave wheels
19185	19185	Yoke frame
15362	15362	Sheave w/bearings
19186	19186	Sheave Pin
50302	50302	Sheave Pin Clip (2)
31573	31573	Sheave Pin

## Triple Sheave Cable Guide - 6,500lb Capacity



- Adjustable center sheave for 19-1/2" (495 mm) or 36" (914 mm) radius.
- Forged steel closure type hook with 1-1/2" (38.1 mm) opening.
- Aluminum frames for light weight.
- Steel yoke is pinned for easy removal.
- 21-7/8" (555 mm) high, 24" (610 mm) long, 7-3/8" (187 mm) wide with 5" (127 mm) wide sheaves.
- Use with any cable puller whose maximum pulling force is 6,500 lbs. (28.9 kN) or less.

SHEAVE DESCRIPTION	6036		
	CAT. NO.	UPC NO.	QUANTITY
Sheave Axle	31573	31573	3
Sheave Bolt Washer	51434	51434	6
Sheave Pin	29600	29600	1
Sheave Pin Clip	50302	50302	2
Sheave Bushing	16798	16798	6
Sheave	15362	15362	3

Sheave Bolt is a 3/8"-24 x 3/4" hex head socket head cap screw (grade 5) and is available at most hardware stores.

### SPECIFICATIONS

<b>Maximum Rated Capacity</b>	6,500 lbs. (28.9 kN)
<b>Weight</b>	28 lbs. (12.7 kg)

CAT. NO.	UPC NO.	DESCRIPTION
6036	31569	Triple Sheave Cable Guide

## Feeding Sheaves



- Yoke frame slides into the end of conduit and holds sheave, allowing the cable being fed into the conduit to smoothly roll over the sheave.
- 5" (127 mm) wide aluminum alloy sheave with self-lubricating bearings.
- Split tube for easy removal after cable is installed.
- See the Capacity Table (below).

### SPECIFICATIONS

Rated Capacity See Capacity Table Below for details.

Weight	Width of Shaft Opening
441-2 – 9 lbs. (4.5 kg)	441-2 – 1.24"
441-2-1/2 – 11 lbs. (5 kg)	441-2-1/2 – 1.37"
441-3 – 14 lbs. (6.4 kg)	441-3 – 1.79"
441-3-1/2 – 17 lbs. (7.7 kg)	441-3-1/2 – 1.75"
441-4 – 19 lbs. (8.6 kg)	441-4 – 1.99"
441-5 – 26 lbs. (11.8 kg)	441-5 – 2.23"
441-6 – 28 lbs. (12.7 kg)	441-6 – 2.75"

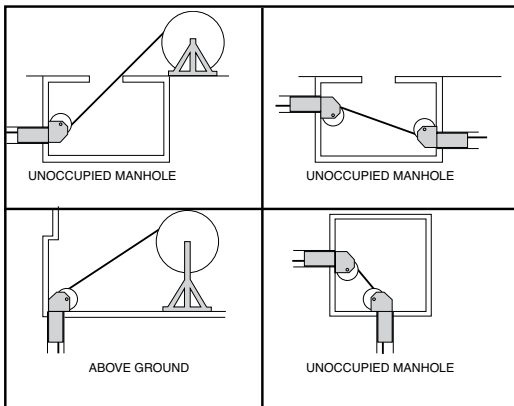
CAT. NO.	UPC NO.	DESCRIPTION
441-2	30183	Feeding Sheave for 2" conduit
441-2-1/2	30358	Feeding Sheave for 2-1/2" conduit
441-3	30188	Feeding Sheave for 3" conduit
441-3-1/2	30363	Feeding Sheave for 3-1/2" conduit
441-4	30347	Feeding Sheave for 4" conduit
441-5	30193	Feeding Sheave for 5" conduit
441-6	13460	Feeding Sheave for 6" conduit



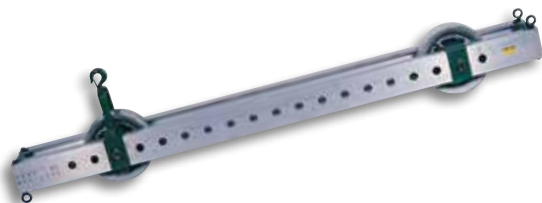
SHEAVE DIAMETER DESCRIPTION	441-2		441-2-1/2		441-3		441-3-1/2		441-4		441-5	
	2" CONDUIT		2-1/2" CONDUIT		3" CONDUIT		3-1/2" CONDUIT		4" CONDUIT		5" CONDUIT	
	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.	CAT. NO.	UPC NO.
Sheave Pin	25160	25160	25160	25160	25160	25160	25160	25160	25160	25160	25160	25160
Sheave Pin Clip (2)	50302	50302	50302	50302	50302	50302	50302	50302	50302	50302	50302	50302
Sheave	15362	15362	15362	15362	15362	15362	15362	15362	15362	15362	15362	15362

### CAPACITY TABLE

ANGLE OF PULL	ANGLE					
	441-2	441-2-1/2	441-3	441-3-1/2	441-4	441-5
15°	1750 lbs. 7.7 kN	1900 lbs. 8.4 kN	6050 lbs. 26.9 kN	6500 lbs. 28.9 kN	6500 lbs. 28.9 kN	6500 lbs. 28.9 kN
30°	900 lbs. 4.0 kN	1000 lbs. 4.4 kN	3150 lbs. 14.0 kN	5050 lbs. 22.4 kN	6500 lbs. 28.9 kN	6500 lbs. 28.9 kN
45°	650 lbs. 2.8 kN	700 lbs. 3.1 kN	2200 lbs. 9.7 kN	3550 lbs. 15.7 kN	5200 lbs. 23.1 kN	6500 lbs. 28.9 kN
60°	500 lbs. 2.2 kN	550 lbs. 2.4 kN	1800 lbs. 8.0 kN	2900 lbs. 12.8 kN	4200 lbs. 18.6 kN	6000 lbs. 26.6 kN
75°	450 lbs. 2.0 kN	500 lbs. 2.2 kN	1600 lbs. 7.1 kN	2600 lbs. 11.5 kN	3650 lbs. 16.2 kN	5500 lbs. 24.4 kN
90°	450 lbs. 2.0 kN	500 lbs. 2.2 kN	1550 lbs. 6.8 kN	2500 lbs. 11.1 kN	3500 lbs. 15.5 kN	5250 lbs. 23.3 kN



## Manhole Sheaves for UT2®, Tugger® and Super Tugger®



- High-strength aluminum alloy frame for easy setup.
- Adjustable, a full range of sheave pin positions over the frame length to accommodate most manhole setups.
- 18" (457 mm) diameter aluminum alloy sheaves with 7" (178 mm) minimum radius and 5" (127 mm) width.
- Self-lubricating bearings for easier cable pulling.

### SPECIFICATIONS

Maximum Rated Capacity	6072 - 6,500 lbs. (28.9 kN)
Weight	6072 - 190 lbs. (86.2 kN)

CAT. NO.	UPC NO.	DESCRIPTION
6072	31395	12' (3.7 m) Manhole Sheave

## Nylon Cable Protector



- Fits in the end of conduit to shield the cable from sharp edges as it is being fed through.
- Rugged nylon resists abrasion.

### SPECIFICATIONS

<b>Weight</b>	488-2 - 0.08 lbs. (36 g)
	488-3 - 0.2 lbs. (90 g)

CAT. NO.	UPC NO.	DESCRIPTION
488-2	32928	Nylon Cable Protector for 2" and 2-1/2" conduit
488-3	32929	Nylon Cable Protector for 3" - 6" conduit

## Cable Guide



- Position where cables are being pulled over sharp edges.

### SPECIFICATIONS

<b>Weight</b>	489 - .5 lbs. (227 g)
<b>Size</b>	13" L x 3-1/4" W x 12" radius

CAT. NO.	UPC NO.	DESCRIPTION
489	32930	Nylon Cable Guide

## Light Base Sheave



- Mounts directly to existing square light pole bolt patterns.
- Slotted mounting holes fit a wide range of bolt circle sizes.
- Tall enough to position sheave above most conduits.
- Rugged welded steel base structure.
- Allows user to install wires into outdoor light bases by pulling horizontally.
- Also can be used to feed wires into vertical light base conduit.

### SPECIFICATIONS

<b>Overall Height</b>	14-1/2" (368 mm)
<b>Weight</b>	18 lbs. (8.2 kg)
<b>Bolt Circle Capability</b>	7.8" (198 mm) to 14.8" (376 mm) diameter
<b>Maximum Mounting Bolt Dia.</b>	1" (25 mm) diameter at 7.8" (198 mm) bolt circle 1-1/2" (38 mm) at 14.8" (376 mm) bolt circle
<b>Pulling Capacity</b>	500 lbs. (227 kg)

CAT. NO.	UPC NO.	DESCRIPTION
459	89800	Light Base Sheave



# CABLE TRAY ACCESSORIES

## CR100

**NEW PRODUCT**



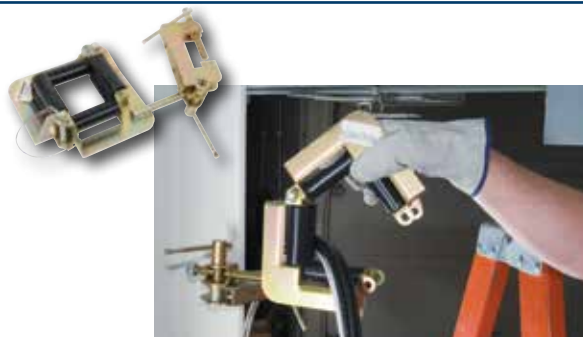
- Sturdy steel construction to withstand cable pulling loads.
- Securely traps the cable within the guide during cable installation.
- Six rollers on 4 sides provide minimum resistance for cable installation and won't damage the cable jacket.
- Clamp mechanism to attach the guide to tray-no tools needed.
- Guide can be opened by removing either of two corner pins.

### SPECIFICATIONS

<b>Dimensions - Inside Rollers</b>	8-1/2" x 8-1/4" (216 mm x 210 mm)
<b>Weight</b>	11.7 lbs. (5.3 kg)

CAT. NO.	UPC NO.	DESCRIPTION
CR100	12372	Cable Tray Roller Guide

## CR25



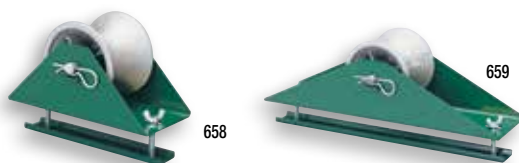
- Six nylon rollers provide smooth movement of cable and prevent cable damage.
- Pull pin makes opening and closing to insert and remove cables a simple one step operation.
- Adjustment clamp allows the CR25 to be swiveled and/or rotated into any position.
- Heavy duty 12 gauge cold rolled steel construction for durability and zinc dichromate finish prevents corrosion.
- Up to 20 network cables can be pulled at one time.
- Easily attaches to wooden framing members using a lag bolt and the hole in the mounting bracket of the CR25.
- May also be used with coax, NM, small size THHN, and similar cables.

### SPECIFICATIONS

<b>Roller Opening Size</b>	3" (76 mm) square
<b>Weight</b>	2 lb. (1 kg)

CAT. NO.	UPC NO.	DESCRIPTION
CR25	12211	Cable Roller Guide

## Tray-Type Sheaves



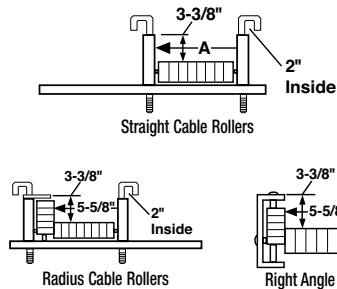
- Steel frame easily attaches to cable tray up to 2" (50.8 mm) thick.
- Helps roll and guide tray pulls.
- Make tray pulls easier.
- 5" (127 mm) wide aluminum alloy sheaves with self lubricating bearings.

### SPECIFICATIONS

<b>Size</b>	658 – 12" (304.8 mm) long	659 – 22" (558.8 mm) long
<b>Weight</b>	658 – 11 lbs. (5 kg)	659 – 17 lbs. (7.7 kg)

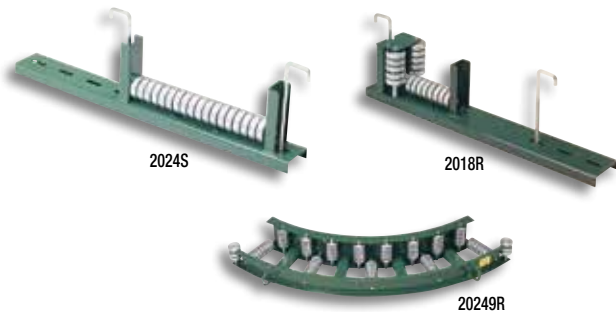
CAT. NO.	UPC NO.	DESCRIPTION
658	15332	Tray-Type Sheave
659	19094	Tray-Type Sheave

## Cable Tray Rollers



### SPECIFICATIONS

Weight	2018S – 8 lbs. (3.6 kg)	2018R – 11 lbs. (5 kg)
	2024S – 10 lbs. (4.5 kg)	2024R – 12 lbs. (5.4 kg)
	2030S – 13 lbs. (5.9 kg)	2030R – 13 lbs. (5.9 kg)
	2036S – 15 lbs. (6.8 kg)	2036R – 14 lbs. (6.3 kg)
	20249R – 41 lbs. (18.6 kg)	20369R – 53 lbs. (24 kg)



- Installed up through the bottom of the tray for easy removal after the cable is installed.
- Individual rollers keep rolling with each cable even after several cables have been installed in the tray.
- Steel ball bearing rollers for long life and less friction.
- Steel welded frame.
- Adjustment slots and universal mounting brackets.

CAT. NO.	UPC NO.	DESCRIPTION
28170	28170	J-Hook

CAT. NO.	UPC NO.	DIMENSION A
2018S	27383	6-5/16" (160.3 mm)
2024S	27384	12-1/2" (317.5 mm)
2030S	27386	18-11/16" (474.7 mm)
2036S	27387	24-7/8" (631.8 mm)

CAT. NO.	UPS NO.	DESCRIPTION
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#### STRAIGHT CABLE ROLLERS

2018S	27383	Straight Cable Roller for 12" - 18" (304.8 - 457.2 mm) wide tray
2024S	27384	Straight Cable Roller for 20" - 24" (508 - 609.6 mm) wide tray
2030S	27386	Straight Cable Roller for 24" - 30" (609.6 - 762 mm) wide tray
2036S	27387	Straight Cable Roller for 30" - 36" (762 - 914.4 mm) wide tray

#### Radius Cable Rollers

2018R	27388	Radius Cable Roller for 12" - 18" (304.8 - 457.2 mm) wide tray
2024R	27389	Radius Cable Roller for 20" - 24" (508 - 609.6 mm) wide tray
2030R	27390	Radius Cable Roller for 24" - 30" (609.6 - 762 mm) wide tray
2036R	27391	Radius Cable Roller for 30" - 36" (762 - 914.4 mm) wide tray

#### RIGHT ANGLE CABLE ROLLERS

20249R	27392	Right Angle Rollers 24" (609.6 mm) radius 90°
20369R	27393	Right Angle Rollers 36" (914.4 mm) radius 90°

## Haines Cable Tray Rollers



- Highly economical system of 1-1/2" steel conduit spindles, high-impact ABS plastic rollers and simple clips.
- Rollers snap in and out of clips fast and easy.
- Mounting clips fit onto the top of most I-Beam and C-Channel trays, so existing wire is not disturbed.
- 8" (203.2 mm) to 48" (1219.2 mm) wide rollers are available, using expandable roller halves and 3" (76.2 mm) PVC conduit.
- Use Greenlee Cable-Cream™ (see p. 172) to lube spindle and roller. This lubricant is compatible with all cable insulation types.

CAT. NO.	UPC NO.	DESCRIPTION	SIZE
31931	31931	Haines Roller 6" (152.4 mm) dia.	7" (177.8 mm) wide
31925	31925	Expandable Roller Half	Used to make 8" (203.2 mm) to 48" (1219.2 mm) wide roller
31926	31926	Coupling 3" (76.2 mm) long	3-1/2" (88.9 mm) dia.
31927	31927	Mounting Clip Steel Conduit	Use with 1-1/2" Rigid
31930	31930	Spindle (includes End Caps)	1-1/2" Rigid Conduit x 40" (1016 mm) long
31929	31929	End Cap	Fits 1-1/2" Rigid Conduit

# ROPE

## Double-Braided Composite Rope for Cable Pullers



- Double-braided inner core with an extra double-braided outer jacket for added strength and less stretch; white with green tracer.
- Rot and mildew resistant.
- Factory spliced eyes at both ends.
- Lowest stretch.
- Select a rope with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.



ROPE DIAMETER	ROPE LENGTH		CAT. NO.	UPC NO.	MAXIMUM RATED CAPACITY		AVERAGE BREAKING STRENGTH		WEIGHT		ROPE STAND
									LBS.	KG	
<b>FOR THE 805 PULLER</b> 3/8" (9.5 mm)	300'	91m	450	23773	1200 lbs.	3.6 kN	3700 lbs.	16.4 kN	14.3	6.5	406
	600'	182m	451	23775	1200 lbs.	3.6 kN	3700 lbs.	16.4 kN	31.0	14.3	644
	1,200'	365m	452	23776	1200 lbs.	3.6 kN	3700 lbs.	16.4 kN	60.0	27.2	644
<b>FOR THE UT2 PULLER</b> 1/2" (12.7 mm)	300'	91m	455	23774	2,200 lbs.	8.9 kN	10,000 lbs.	44.4 kN	34	15.4	644
	600'	182m	456	23777	2,200 lbs.	8.9 kN	10,000 lbs.	44.4 kN	75	34	644
<b>FOR THE UT4 &amp; 640 PULLER</b> 9/16" (14.3 mm)	300'	91m	35283	35283	4,000 lbs.	17.8 kN	16,000 lbs.	71.1 kN	28	12.7	644
	600'	182m	35284	35284	4,000 lbs.	17.8 kN	16,000 lbs.	71.1 kN	63	28.6	644
	1,200'	365m	35285	35285	4,000 lbs.	17.8 kN	16,000 lbs.	71.1 kN	130	59	†
<b>FOR THE 6001 &amp; 6901 (UT5) PULLER</b> 3/4" (19.1 mm)	300'	91m	35098	35098	6,500 lbs.	28.9 kN	26,000 lbs.	115.6 kN	58	26.3	644
	600'	182m	35100	35100	6,500 lbs.	28.9 kN	26,000 lbs.	115.6 kN	113	51.3	654
	1,200'	365m	35101	35101	6,500 lbs.	28.9 kN	26,000 lbs.	115.6 kN	230	104.3	†
<b>FOR THE 6800 (UT8) PULLER</b> & UT10-25 7/8" (22.2 mm)	300'	91m	34136	34136	8,000 lbs.	35.6 kN	32,000 lbs.	142.3 kN	90	40.8	654
	600'	182m	34137	34137	8,000 lbs.	35.6 kN	32,000 lbs.	142.3 kN	178	80.7	654
	1,200'	365m	34138	34138	8,000 lbs.	35.6 kN	32,000 lbs.	142.3 kN	359	163.3	†

## Polypro General Purpose Rope



405 Rope Stand sold separately. See page 435.

- **Not for cable pulling.** See the ropes listed with cable pullers for recommended cable pulling ropes.
- Highly-visible, bright yellow with green tracer, excellent for roping off areas on construction sites.
- Rot and mildew resistant.
- Weather resistant.
- Economical general purpose rope.



ROPE DIAMETER	ROPE LENGTH		CAT. NO.	UPC NO.	BREAKING STRENGTH	AVERAGE WEIGHT		
						LBS.	KG	
<b>3/16"</b> (4.8 mm)	250'	76 m	408	21467	720 lbs.	3.2 kN	3	1.4
	600'	182 m	409	21468	720 lbs.	3.2 kN	6	2.7
<b>1/4"</b> (6.4 mm)	250'	76 m	412	21471	1130 lbs.	5.0 kN	4	1.8
	600'	182 m	413	21472	1130 lbs.	5.0 kN	9	4.1
	1,000'	304 m	414	21474	1130 lbs.	5.0 kN	13	5.9
<b>3/8"</b> (9.5 mm)	250'	76 m	417	21477	2430 lbs.	10.8 kN	9	4.1
	600'	182 m	418	21520	2430 lbs.	10.8 kN	19	8.6
<b>1/2"</b> (12.7 mm)	250'	76 m	421	21480	3780 lbs.	16.8 kN	15	6.8
	600'	182 m	422	21521	3780 lbs.	16.8 kN	35	15.9

# SWIVELS & ROPE CONNECTORS

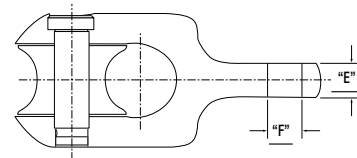
## Rope-to-Swivel Connectors



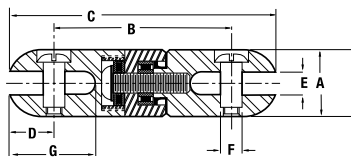
- Rope-to-swivel connectors connect the cable pulling rope, up to 1" (254 mm) in diameter, to the pulling swivel.
- Makes connecting the pulling rope and the pulling swivel easier.
- Connectors feature a removable sheave for rope eye.
- Select the connector with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	MAX. RATED CAPACITY IN CONDUIT		MAX. RATED CAPACITY OVERHEAD		DIAMETER		LENGTH		"E"		"F"		USE ON SWIVEL
		LBS.	KN	LBS.	KN	IN.	MM	IN.	MM	IN.	MM	IN.	MM	
39905	39905	5,000	22.2	3,000	13.3	2	50.8	4-11/16	119	7/16	11.12	13/32	10.32	39107
39904	39904	7,000	31.1	4,200	18.6	2	50.8	4-11/16	119	1/2	12.7	1/2	12.7	39108
39903	39903	10,000	44.4	6,000	26.6	2	50.8	4-11/16	119	9/16	14.3	5/8	15.9	39109
39902	39902	10,000	44.4	6,000	26.6	2	50.8	4-11/16	119	11/16	17.5	11/16	17.5	39110

CAT. NO.	UPC NO.	DESCRIPTION
39849	39849	Sheave
39850	39850	Sheave Pin



## Swivels

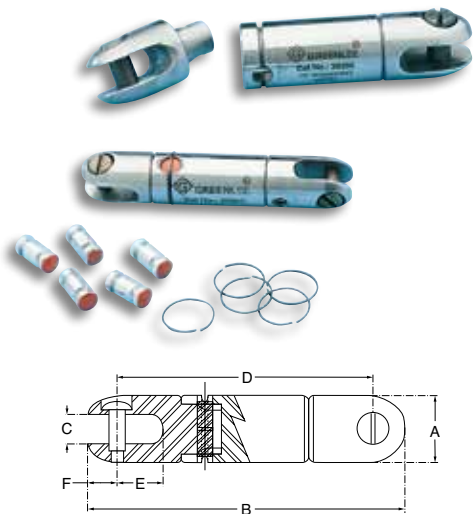


- Helps eliminate winding and tangling of rope and cable during pull.
- Connects grip and pulling rope.
- All stainless steel body construction.
- Efficient thrust and roller bearing construction allows smooth rotation, even under full load.
- Clevis pins are "shoulder bolt" style, so load on both sides of clevis is taken on the shoulder, not on the thread.
- Select the swivel with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	MAXIMUM RATED CAPACITY		A DIAMETER		B		C		D		E		F DIAMETER		G		WEIGHT		REPLACEMENT* PIN KIT
		LBS.	KN	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	IN.	MM	LBS.	KG	UPC NO.
39106	39106	2,250	11.1	7/8	22.2	2-5/8	66.7	3-1/2	88.9	7/16	11.1	3/8	9.5	5/16	7.9	31/32	24.6	.4	.16	39112
39107	39107	5,000	22.2	1-1/4	31.8	3-1/16	77.8	4-1/8	104.5	17/32	13.5	1/2	12.7	13/32	10.3	1-9/32	32.5	1.0	.45	39112
39108	39108	7,000	31.1	1-3/8	34.9	3-9/32	83.3	4-17/32	115.1	5/8	15.9	9/16	14.3	1/2	12.7	1-3/8	34.9	1.0	.45	39114
39109	39109	10,000	44.4	1-5/8	41.3	3-15/16	100	5-7/16	138.1	3/4	19.1	5/8	15.9	5/8	15.9	1-23/32	43.7	2.0	.91	39115
39110	39110	15,000	66.7	2	50.8	4-11/16	119.1	6-9/16	166.7	15/16	23.8	3/4	19.1	11/16	17.5	2	50.8	4.0	1.81	39116
39111	39111	25,000	111.2	2-3/8	60.3	5-11/16	144.5	8-7/16	214.3	1-3/16	30.2	1	25.4	7/8	22.2	2-25/32	70.6	7.0	3.18	39117

\* Replacement Pin Kits contain two (2) Replacement Pins

## Breakaway Swivels



- Acts as a mechanical fuse, breaking away at a preset load to prevent damage to expensive cable.
- Breakaway pins can be replaced to change breakaway values.

### BREAKAWAY PIN KITS

CAT. NO.	UPC NO.	BREAKING POINT LBS.	BREAKING POINT KN	COLOR CODE	USE WITH
39294	39294	200 lbs.	0.9 kN	WHITE	
39295	39295	400 lbs.	1.8 kN	YELLOW	39290
39296	39296	600 lbs.	2.7 kN	ORANGE	5/8" Swivel
39297	39297	675 lbs.	3.0 kN	BLACK	
39302	39302	200 lbs.	0.9 kN	WHITE	
39303	39303	400 lbs.	1.8 kN	YELLOW	39298
39304	39304	600 lbs.	2.7 kN	ORANGE	7/8" Swivel
39306	39306	800 lbs.	3.6 kN	GREY	
39308	39308	1000 lbs.	4.4 kN	RED	

### BREAKAWAY SWIVEL BODY ONLY

CAT. NO.	UPC NO.	A		B		C		D		E		F	
		INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM
39290	39290	5/8	15.9	3-7/32	81.8	9/32	7.1	2-23/32	69.1	7/16	11.1	1/4	6.4
39298	39298	7/8	22.2	4-7/32	107.2	3/8	9.5	3-11/32	84.9	17/32	13.5	5/16	7.9

## Rope Clevis

For forged eye grips

For forged eye grips



For flexible eye grips



- Removable bolt and rope sheave.
- Removable grip eye bolt.
- Select the clevis with a rating that meets or exceeds the cable puller's maximum pulling force.
- Removable sheave for rope eye.

CAT. NO.	UPC NO.	DESCRIPTION
578	31910	Rope Clevis
579	31905	Rope Clevis
678	19524	Rope Clevis

### SPECIFICATIONS

Maximum Rated Capacity	Weight	Length	Width	Inside Diameter
578 – 6,500 lbs. (28.9 kN)	0.9 lbs. (408 g)	3.0" (76 mm)	1.406" (36 mm)	1.25" (32 mm)
579 – 10,000 lbs. (44.4 kN)	1.3 lbs. (589 g)	3.5" (89 mm)	1.84" (47 mm)	1.5" (38 mm)
678 – 6,500 lbs. (28.9 kN)	1.3 lbs. (589 g)	3.5" (89 mm)	1.75" (44 mm)	0.94" (24 mm)

# GRIPS

## Gator Grips

**NEW  
PRODUCT**



- 2 minute set-up
- 6 Grips cover the cable size from 1AWG through 1000 MCM
- 5 different harness lengths to prevent overlap during cable pull
- Use Greenlee EK12IDL or HK12ID to crimp any size without changing dies.

CAT. NO.	UPC NO.	DESCRIPTION
GG1-1/OXS	05469	Grip Assy, 1-1/0 Extra Short
GG1-1/OS	05470	Grip Assy, 1-1/0 Short
GG1-1/OM	05471	Grip Assy, 1- 1/0 Medium
GG1-1/OL	05472	Grip Assy, 1- 1/0 Long
GG1-1/OXL	05473	Grip Assy, 1-1/0 Extra Long
GG2/0-4/OXS	05474	Grip Assy, 2/0-4/0 Extra Short
GG2/0-4/OS	05477	Grip Assy, 2/0-4/0 Short
GG2/0-4/OM	05478	Grip Assy, 2/0-4/0 Medium
GG2/0-4/OL	05479	Grip Assy, 2/0-4/0 Long
GG2/0-4/OXL	05480	Grip Assy, 2/0-4/0 Extra Long
GG250-350XS	05502	Grip Assy, 250-350 Extra Short
GG250-350S	05503	Grip Assy, 250-350 Short
GG250-350M	05504	Grip Assy, 250-350 Medium
GG250-350L	05505	Grip Assy, 250-350 Long
GG250-350XL	05506	Grip Assy, 250-350 Extra Long
GG400-500XS	05507	Grip Assy, 400-500 Extra Short
GG400-500S	05508	Grip Assy, 400-500 Short
GG400-500M	05509	Grip Assy, 400-500 Medium
GG400-500L	05510	Grip Assy, 400-500 Long
GG400-500XL	05511	Grip Assy, 400-500 Extra Long
GG600-750XS	05512	Grip Assy, 600-750 Extra Short
GG600-750S	05513	Grip Assy, 600-750 Short
GG600-750M	05514	Grip Assy, 600-750 Medium
GG600-750L	05515	Grip Assy, 600-750 Long
GG600-750XL	05516	Grip Assy, 600-750 Extra Long
GG1000XS	05517	Grip Assy, 1000 Extra Short
GG1000S	05518	Grip Assy, 1000 Short
GG1000M	05521	Grip Assy, 1000 Medium
GG1000L	05522	Grip Assy, 1000 Long
GG1000XL	05523	Grip Assy, 1000 Extra Long

**SPECIFICATIONS**

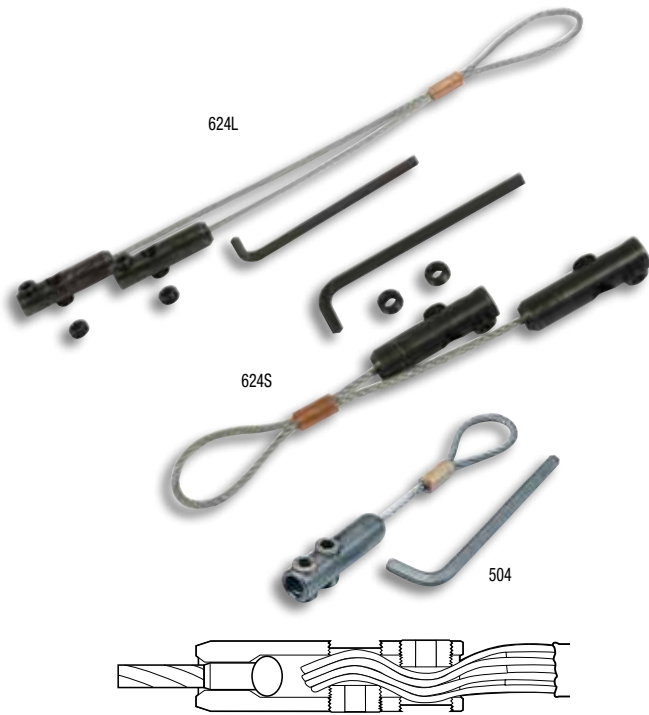
**Wire Type** 1 AWG – 1000 MCM  
Copper, Aluminum, Compressed and Compact (CU and AL)

**RATED PULLING LOAD FOR REGULAR AND COMPACT STRANDED COPPER CABLE**

**RATED PULLING LOAD FOR REGULAR AND COMPACT STRANDED ALUMINUM CABLE**

GRIP WIRE RANGE	WIRE SIZE	LOAD PER CABLE (LB)	LOAD FOR 3 CABLES (LB)	LOAD FOR 4 CABLES (LB)	LOAD FOR 5 CABLES (LB)	LOAD PER CABLE (LB)	LOAD FOR 3 CABLES (LB)	LOAD FOR 4 CABLES (LB)	LOAD FOR 5 CABLES (LB)	MINIMUM CONDUIT SIZE (IN)
1 TO 1/0	1	1,200	3,600	4,800	6000	500	1500	2000	2500	1-1/4
	1/0	2,000	6,000	8,000	10000	650	1950	2600	3250	1-1/4
	2/0	2,000	6,000	8,000	10000	800	2400	3200	4000	1-1/2
2/0 TO 4/0	3/0	2,000	6,000	8,000	10000	900	2700	3600	4500	2
	4/0	2,000	6,000	8,000	10000	1000	3000	4000	5000	2
	250	2,000	6,000	8,000	8000	1600	4800	6400	8000	2
250-350	300	2,000	6,000	8,000	10000	1700	5100	6800	8500	2-1/2
	350	2,500	7,500	10,000	12500	2200	6600	8800	11000	2-1/2
400-500	400	2,500	7,500	10,000	12500	1900	5700	7600	9500	2-1/2
	500	2,500	7,500	10,000	12500	2500	7500	10000	12500	3
600-750	600	2,500	7,500	10,000	9000	1500	4500	6000	7500	3
	750	3,000	9,000	12,000	15000	2300	6900	9200	11500	3-1/2
1000	1,000	3,000	9,000	12,000	15000	3500	10500	14000	17500	3-1/2

## Set Screw Clamp Pulling Grips



Each grip has two opposed set screws that provide positive locking. Openings in wire grip should be 50% filled with wire to assure slip-proof grip.

- Use to pull in 2" (50.8 mm) or larger conduit.
- Type of pulls: heavy, long runs. (629)
- Type of pull: light and medium. (504)
- Type of grip: Flexible eye 1/4" (6.4 mm-629) (6.3 mm-504) diameter galvanized steel aircraft cable connected to 2 cable receptacles with 5/8" (15.9 mm) diameter opening and 2 clamping set screws.
- Select pulling grips with a maximum-rated capacity that meets or exceeds the cable puller's maximum pulling force.
- Minimum cable diameter is 3/8".

### SPECIFICATIONS

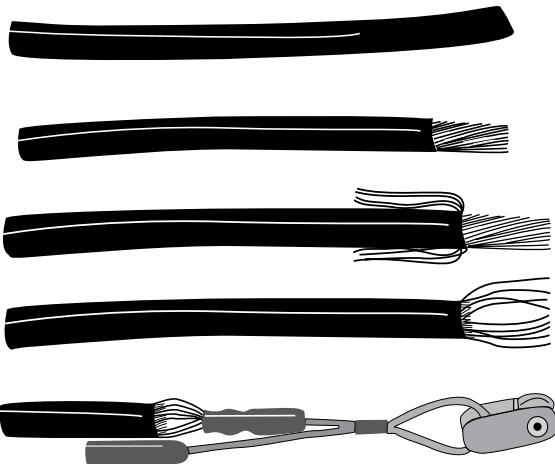
Maximum Rated Capacity	Weight
504 – 1750 lbs. (28.9 kN)	504 – 5 lbs. (2.3 kg)
629 – 6,500 lbs. (28.9 kN)	629 – 5 lbs. (2.3 kg)
624 – 6,500 lbs. (28.9 kN)	624 – 3.5 lbs. (1.5 kg)
624S – 3,250 lbs. (14.5 kN)	624S – 2 lbs. (.9 kg)
624L – 3,250 lbs. (14.5 kN)	624L – 2.1 lbs. (1 kg)

### SPECIFICATIONS

<b>Capacity</b>	1,750 lbs. (7.7 kN)
<b>Weight</b>	1.2 lbs. (.5 kg)
<b>Size</b>	Receptacle - 5/8" (15.9 mm)

CAT. NO.	UPC NO.	DESCRIPTION
504	23665	Set Screw Clamp-Type Pulling Grip
629	31855	Pulling Grip with Clevis includes 624S, 624L and 678 clevis - 4 clamp
624	31908	Pulling Grip includes 624S and 624L - 2 clamp each
624S	31866	Short Pulling Grip - 2 Clamp
624L	31867	Long Pulling Grip - 2 Clamp
<b>R</b> 51208	51208	Grip Allen Wrench
<b>R</b> 52352	52352	Grip Set Screw (2 per clamp), 629 and 624 - 8 for each grip 624L and 624S - 4 for each grip.

## Cable Preparation Instructions for Set Screw Clamp-Type Pulling Grips



Strip cable approximately 3" (76 mm) of insulation off the end of the cable to be pulled. **NOTE:** The grip head should not be more than 60% filled nor less than 40% filled to assure that the set screw does not project above the surface of the grip body when the set screws are tightened down.

The central core should be clipped away and the outer strands used in the grip head.

Using the Allen Wrench provided, back out the set screws far enough to accommodate the stripped cables.

Insert the bare wire strands into the grip head as far as they will go.

Tighten both set screws in each grip securely against the conductors.

**CAUTION:** If the set screws extend above the surface of the gripping head, damage to the conduit could result. To prevent this, wrap the head with electrical tape.

## Pulling Grip Selection Guide

### How to select correct pulling grip:

1. Select the type of grip needed.
2. Select the size of grip needed (see below).
3. Select a grip with maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

#### 1. SELECT THE TYPE OF GRIP NEEDED.

GRIP TYPE	DESCRIPTION	TYPE OF EYE	SIZE RANGE DIA. INCHES (MM)	MAX. RATED CAPACITY – lbs. (KN)	USE TO PULL
<b>Junior Grips</b>	Single weave galvanized steel mesh	Flexible	.19-1.24 (4.8-31.5)	708 (3.5)	In conduit or tray – Building wire by hand.
<b>Light Duty Grips</b>	Single weave galvanized steel mesh	Flexible	.50-3.99 (12.7-101.3)	2940 (13.1)	In conduit or tray – Light-duty applications, short easy runs.
<b>T-Type Grips</b>	Double weave galvanized steel mesh	Flexible	.50-3.99 (12.7-101.3)	6200 (27.6)	In conduit or tray – Medium-duty applications
<b>K-Type Grips</b>	Double weave galvanized steel mesh	Rotating forged	.50-6.99 (12.7-177.5)	9600 (42.7)	In conduit or tray – Heavy-duty applications, long hard runs.
<b>Multiple Strength Grips</b>	Triple to double to single weave galvanized steel mesh	Rotating forged	.25-3.99 (6.4-101.3)	9600 (42.7)	Overhead transmission lines – Bare or insulated conductors, wire rope.
<b>Slack Grips Rod Closing</b>	Double weave galvanized steel mesh – rod closing – offset eye	Flexible	.50-3.99 (12.7-101.3)	2400 (12.7-101.3)	Where end of conductor is not available. Can be pulled straight only, rod will not flex.

#### 2. SELECT THE SIZE OF GRIP NEEDED.

After determining the type of grip needed, measure the diameter of the cable being pulled. If pulling more than one cable "of the same diameter," refer to chart below for required grip diameter range. If pulling more than one cable "of different diameters," bundle cables together, measure the circumference

and refer to the chart on bottom of this page for required grip diameter range. Once the cable diameter or required grip diameter is determined, refer to individual chart for type of grip chosen to locate Catalog/UPC number.

2 CABLES DIA. EACH IN./(MM)	3 CABLES DIA. EACH IN./(MM)	4 CABLES DIA. EACH IN./(MM)	5 CABLES DIA. EACH IN./(MM)	6 & 7 CABLES DIA. EACH IN./(MM)	8 CABLES DIA. EACH IN./(MM)	9 CABLES DIA. EACH IN./(MM)	REQUIRED GRIP DIAMETER IN./(MM)
.30-.38/(7.6-9.7)	.25-.31/(6.4-7.9)	.22-.27/(5.6-6.9)	.19-.24/(4.8-6.1)	.17-.22/(4.3-5.6)	.15-.19/(3.8-6.1)	.14-.18/(3.6-4.6)	.50-.61/(12.7-15.5)
.38-.44/(9.7-11.2)	.31-.36/(7.9-9.1)	.27-.31/(6.9-7.9)	.24-.29/(6.1-7.4)	.22-.26/(5.6-6.6)	.19-.23/(6.1-5.8)	.18-.21/(4.6-5.3)	.62-.74/(15.7-18.8)
.44-.59/(11.2-15.0)	.36-.49/(9.1-12.4)	.31-.42/(7.9-10.7)	.29-.38/(7.4-9.7)	.26-.34/(6.6-8.6)	.23-.31/(5.8-7.9)	.21-.28/(5.3-7.1)	.75-.99/(19.1-25.1)
.59-.75/(15.0-19.1)	.49-.63/(12.4-16.0)	.42-.54/(10.7-13.7)	.38-.48/(9.7-12.2)	.34-.43/(8.6-10.9)	.31-.39/(7.9-9.9)	.28-.35/(7.1-8.9)	1.00-1.24/(25.4-31.5)
.75-.90/(19.1-22.9)	.63-.76/(16.0-19.3)	.54-.65/(13.7-16.5)	.48-.58/(12.2-14.7)	.43-.52/(10.9-13.2)	.39-.46/(9.9-11.7)	.35-.42/(8.9-10.7)	1.25-1.49/(31.8-37.8)
.90-1.07/(22.9-27.2)	.76-.89/(19.3-22.6)	.65-.77/(16.5-19.6)	.58-.67/(14.7-17.0)	.52-.60/(13.2-15.2)	.46-.54/(11.7-13.7)	.42-.49/(10.7-12.4)	1.50-1.74/(38.1-44.2)
1.07-1.22/(27.2-31.0)	.89-1.02/(22.6-25.9)	.77-.88/(19.6-22.4)	.67-.77/(17.0-19.6)	.60-.69/(15.2-17.5)	.54-.62/(13.7-15.7)	.49-.56/(12.4-14.2)	1.75-1.99/(44.5-50.5)
1.22-1.53/(31.0-39.9)	1.02-1.28/(25.9-32.5)	.88-1.10/(22.4-27.9)	.77-.96/(19.6-24.2)	.69-.86/(17.5-21.8)	.62-.77/(15.7-19.6)	.56-.71/(14.2-18.0)	2.00-2.49/(50.8-63.2)
1.53-1.83 / (38.9-46.5)	1.28-1.53/(32.5-38.9)	1.10-1.32/(27.9-33.5)	.96-1.16/(24.2-29.5)	.86-1.03/(21.8-26.2)	.77-.93/(19.6-23.6)	.71-.85/(18.0-21.6)	2.50-2.99/(63.5-75.9)
1.83-2.14/(46.5-54.4)	1.53-1.79/(38.9-45.5)	1.32-1.54/(33.5-39.1)	1.16-1.35/(29.5-34.3)	1.03-1.20/(26.2-30.5)	.93-1.08/(23.6-27.4)	.85-.99/(21.6-25.1)	3.00-3.49/(76.2-88.6)
2.14-2.44 / (54.4-62.0)	1.79-2.05/(45.5-52.0)	1.54-1.76/(39.1-44.7)	1.35-1.54/(34.3-39.1)	1.20-1.37/(30.5-34.8)	1.08-1.24/(27.4-31.5)	.99-1.13/(25.1-28.7)	3.50-3.99/(88.9-101.3)
2.44-2.75/(62.0-69.9)	2.05-2.30/(52.0-58.4)	1.76-1.98/(44.7-50.3)	1.54-1.74/(39.1-44.2)	1.37-1.55/(34.8-39.4)	1.24-1.39/(31.5-35.3)	1.13-1.27/(28.7-32.3)	4.00-4.49/(101.6-114.0)
2.75-3.06/(69.9-77.7)	2.30-2.56/(58.4-65.0)	1.98-2.20/(50.3-55.9)	1.74-1.93/(44.2-49.0)	1.55-1.72/(39.4-43.7)	1.39-1.55/(35.3-39.4)	1.27-1.41/(32.3-35.8)	4.50-4.99/(114.3-126.7)

#### MEASURE THE CIRCUMFERENCE OF THE WIRE BUNDLE

\* Split grips require the next larger size.

CIRCUMFERENCE RANGE INCH	MM	REQUIRED GRIP DIAMETER INCH	MM
1.57- 1.95	39.9- 49.5	.50- .61	12.7- 15.5
1.95- 2.36	49.5- 59.9	.62- .74	15.8- 18.8
2.36- 3.14	59.9- 79.8	.75- .99	19.1- 25.1
3.14- 3.93	79.8- 99.8	1.00- 1.24	25.4- 31.5
3.93- 4.71	99.8- 119.6	1.25- 1.49	31.8- 37.8
4.71- 5.50	119.6- 139.7	1.50- 1.74	38.1- 44.2
5.50- 6.28	139.7- 159.5	1.75- 1.99	44.5- 50.5
6.28- 7.85	159.5- 199.4	2.00- 2.49	50.8- 63.2
7.85- 9.42	199.4- 239.3	2.50- 2.99	63.5- 75.9
9.42- 11.00	239.3- 279.4	3.00- 3.49	76.2- 88.6
11.00- 12.57	279.4- 319.3	3.50- 3.99	88.9- 101.3
12.57- 14.14	319.3- 359.2	4.00- 4.49	101.6- 114.0
14.14- 15.71	359.2- 399.0	4.50- 4.99	114.3- 126.7

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.



## Basket-Type Pulling Grip Sets



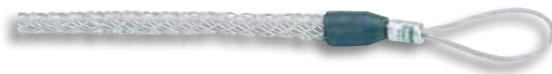
- Handy set gives you the size range you need.
- Have the correct grip on the job and save time.

CAT. NO.	UPC NO.	DESCRIPTION
30758	30758	Building Wire Junior Grip Set - diameter range .25" - 1.24" (6.4 - 31.5 mm). Consists of 30588, 30590, 30592, and 30594, 30584, 30586.
597	31482	T-Type Grip Set - diameter range .75" - 1.99" (19 - 50.5 mm). Consists of 30576, 30578, and 31010.
598	31483	T-Type Grip Set - diameter range 1.50" - 2.99" (38.1 - 75.9 mm). Consists of 31010, 30580 and 31012.
599	31484	T-Type Grip Set - diameter range .75" - 2.99" (19 - 75.9 mm). Consists of 30576, 30578, 31010, 30580 and 31012.

### SPECIFICATIONS

<b>Capacity</b>	30758 - (2) #14 to 4-1/0, .25" - 1.24" (6.4 - 31.5 mm) diameter
	597 - 3-1/0 to 250 MCM, .75" - 1.99" (1.9 - 50.5 mm) diameter
	598 - 3-350 MCM to 3-750 MCM, 1.50" - 2.99" (38.1 - 75.9 mm) diameter
	599 - 3-1/0 to 3-750 MCM, .75" - 2.99" (1.9 - 75.9 mm) diameter
<b>Weight</b>	<b>30758</b> - 1.2 lbs. (.5 kg) <b>597</b> - 6 lbs. (2.7 kg)
	<b>598</b> - 9.9 lbs. (4.5 kg) <b>599</b> - 13 lbs. (5.9 kg)

## Junior Basket-Type Pulling Grips



- Use to pull in: conduit or tray.
- Type of pulls: building wire manually.
- Type of grip: single weave galvanized steel mesh with flexible pulling eye.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		EYE LENGTH		MESH LENGTH	
		INCH	MM	LBS.	KN	INCH	MM	INCH	MM
30596	30596	.19 - .24	4.8 - 6.1	80	.3	3-1/4	82.6	4-1/4	108
30584	30584	.25 - .36	6.2 - 9.1	90	.4	3-1/4	82.6	4-1/4	108
30586	30586	.37 - .49	9.2 - 12.6	180	.8	3-3/4	95.3	7	177.8
30588	30588	.50 - .61	12.7 - 15.50	260	1.1	4-1/4	108	8-1/2	215.9
30590	30590	.62 - .74	15.6 - 18.9	390	1.7	5	127	10	254
30592	30592	.75 - .99	19 - 25.3	560	2.4	5-3/4	146	10	254
30594	30594	1.00 - 1.24	25.4 - 31.5	780	3.4	6-1/2	165.1	11-1/2	292.1

## Light-Duty Basket-Type Pulling Grips



- Use to pull in: conduit or tray.
- Type of pulls: light-duty, short, easy runs.
- Type of grip: single weave galvanized steel mesh with flexible pulling eye.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		EYE LENGTH		MESH LENGTH	
		INCH	MM	LBS.	KN	INCH	MM	INCH	MM
30536	30536	.50 - .61	12.7 - 15.5	560	2.5	5	127	16	406.4
30538	30538	.62 - .74	15.6 - 18.9	560	2.5	5	127	16	406.4
30540	30540	.75 - .99	19.0 - 25.3	800	3.5	6	152.4	20	508
30542	30542	1.00 - 1.24	25.4 - 31.5	1360	6	7	177.8	20	508
30544	30544	1.25 - 1.49	31.6 - 38	1360	6	7	177.8	21	533.4
30546	30546	1.50 - 1.99	38.1 - 50.7	1360	6	8	203.2	23	584.2
30548	30548	2.00 - 2.49	50.8 - 63.4	1700	7.5	9	228.6	25	635
30550	30550	2.50 - 2.99	63.5 - 76.1	2120	9.4	9	228.6	27	685.8
30552	30552	3.00 - 3.49	76.2 - 88.8	2940	13	10	254	30	762
30554	30554	3.50 - 3.99	88.9 - 101.3	2940	13	10	254	32	812.8

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

## T-Basket-Type Pulling Grips



- Use to pull in: conduit or tray.
- Type of pulls: medium-duty.
- Type of grip: double weave galvanized steel mesh with flexible pulling eye.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		EYE LENGTH		MESH LENGTH		
		INCH	MM	LBS.	KN	INCH	MM	INCH	MM	
<b>SHORT</b>										
30558	30558	.50 - .61	12.7 - 15.5	900	4	8	203.2	21	533.4	
30560	30560	.62 - .74	15.6 - 18.9	1120	4.9	8	203.2	24	610	
30562	30562	.75 - .99	19.0 - 25.3	1360	6	9	228.6	24	610	
30564	30564	1.00 - 1.49	25.4 - 38.0	1920	8.7	9	228.6	24	610	
30566	30566	1.50 - 1.99	38.1 - 50.7	3280	14.5	11	279.4	24	610	
30568	30568	2.00 - 2.49	50.8 - 63.3	3700	16.4	12	304.8	24	610	
30570	30570	2.50 - 2.99	63.5 - 76.1	4900	21.7	12	304.8	24	610	
30572	30572	3.00 - 3.49	76.2 - 88.8	4900	21.7	14	355.6	24	610	
30574	30574	3.50 - 3.99	88.9 - 101.3	6200	27.5	14	355.6	26	660.4	
<b>STANDARD</b>										
30576	30576	.75 - .99	19.0 - 25.3	1360	6	9	228.6	36	914.4	
30578	30578	1.00 - 1.49	25.4 - 38.0	1920	8.7	9	228.6	36	914.4	
31010	31010	1.50 - 1.99	38.1 - 50.7	3280	14.5	11	279.4	36	914.4	
30580	30580	2.00 - 2.49	50.8 - 63.3	3700	16.4	12	304.8	36	914.4	
31012	31012	2.50 - 2.99	63.5 - 76.1	4900	21.7	12	304.8	36	914.4	
30582	30582	3.00 - 3.49	76.2 - 88.8	4900	21.7	14	355.6	36	914.4	
31014	31014	3.50 - 3.99	88.9 - 101.3	6200	27.5	14	355.6	40	1016	

## K Basket-Type Pulling Grips



- Use to pull in: conduit or tray.
- Type of pulls: heavy-duty, long, hard runs.
- Type of grip: double-weave galvanized steel mesh with forged steel swivel eye.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		EYE LENGTH		MESH LENGTH		ROTATING EYE DIA.	
		INCH	MM	LBS.	KN	INCH	MM	INCH	MM	INCH	MM
<b>STANDARD</b>											
30442	30442	.50 - .61	12.7 - 15.5	1120	4.9	5	127	16	406.4	7/8	22.2
30998	30998	.62 - .74	15.6 - 18.9	1360	6	5	127	16	406.4	7/8	22.2
30460	30460	.75 - .99	19.0 - 25.3	1920	8.5	6	152.4	32	812.8	1	25.4
31000	31000	1.00 - 1.49	25.4 - 38.0	3280	14.5	7	177.8	33	838.2	1-3/8	34.9
30462	30462	1.50 - 1.99	38.1 - 50.7	3280	14.5	7	177.8	34	863.6	1-3/8	34.9
31002	31002	2.00 - 2.49	50.8 - 63.3	5440	24.1	9	228.6	36	914.4	1-5/8	41.2
30464	30464	2.50 - 2.99	63.5 - 76.1	6600	29.3	10	254	38	965.2	1-7/8	47.6
31004	31004	3.00 - 3.49	76.2 - 88.8	8200	36.5	10	254	39	990.6	1-7/8	47.6
30466	30466	3.50 - 3.99	88.9 - 101.5	9600	42.7	10	254	41	1041.4	1-7/8	47.6
31006	31006	4.00 - 4.49	101.6 - 114.2	9600	42.7	10	254	42	1066.8	1-7/8	47.6
30468	30468	4.50 - 4.99	114.3 - 126	9600	42.7	10	254	58	1473.2	1-7/8	47.6
30470	30470	5.00 - 5.99	127 - 152.3	9600	42.7	10	254	60	1524	1-7/8	47.6

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

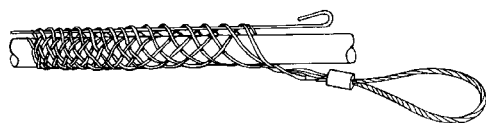
## Multiple Strength Basket-Type Pulling Grips with Rotating Forged Eye



- Use to pull overhead transmission lines, bare or insulated conductors and wire rope.
- Type of pulls: heavy-duty, long distance.
- Triple, to double, to single weave galvanized steel mesh with forged steel swivel eye
- Color coded for easy size identification.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		COLOR CODE	EYE LENGTH		MESH LENGTH		ROTATING EYE DIAMETER	
		INCH	MM	LBS.	KN		INCH	MM	INCH	MM	INCH	MM
30474	30474	.25 - .49	12.7 - 15.5	1360	6	Dark Green	5	127	26	660.4	7/8	22.3
30476	30476	.50 - .74	15.6 - 18.9	2000	8.8	Brown	6	152.4	32	812.8	1	25.4
30478	30478	.75 - .99	19.0 - 25.3	2880	12.8	Light Blue	6	152.4	41	1041.4	1	25.4
30480	30480	1.00 - 1.24	25.4 - 31.5	4920	21.8	Gold	8	203.2	52	1320.8	1-3/8	34.9
30482	30482	1.25 - 1.49	31.6 - 38.0	6120	27.2	Black	8	203.2	56	1422.4	1-5/8	41.2
30484	30484	1.50 - 1.74	38.1 - 44.3	6120	27.2	Red	9	228.6	60	1524.0	1-7/8	47.6
30486	30486	1.75 - 2.24	44.4 - 56.9	9600	42.7	Dark Blue	10	254	70	1778.0	1-7/8	47.6
30502	30502	2.00 - 2.49	50.8 - 63.4	9600	42.7	Yellow	10	254	50	1270	1-7/8	47.6
30504	30504	2.50 - 2.99	63.5 - 76.1	9600	42.7	Orange	10	254	52	1320.8	1-7/8	47.6
30506	30506	3.00 - 3.49	76.2 - 88.8	9600	42.7	Aluminum	10	254	54	1371.6	1-7/8	47.6
30508	30508	3.50 - 3.99	88.9 - 101.3	9600	42.7	Light Green	10	254	56	1422.4	1-7/8	47.6

## Split Mesh Rod Closing Basket-Type Slack Pulling Grips



- Use to pull when the end of the conductor is not available.
- Type of pulls: light and straight. The rod will not flex around bends.
- Single weave galvanized steel mesh with rod closing and an offset flexible eye.
- Select the grip with a maximum rated capacity that meets or exceeds the cable puller's maximum pulling force.

CAT. NO.	UPC NO.	CABLE DIAMETER RANGE		MAXIMUM RATED CAPACITY		EYE LENGTH		MESH LENGTH	
		INCH	MM	LBS.	KN	INCH	MM	INCH	MM
30658	30658	.50 - .61	12.7 - 15.50	300	1.3	7	177.8	6	152.4
31024	31024	.62 - .74	15.6 - 18.9	360	1.6	7	177.8	8	203.2
30660	30660	.75 - .99	19 - 25.3	440	1.9	7	177.8	10	254
31026	31026	1.00 - 1.24	25.4 - 31.5	680	3	8	203.2	12	304.8
30662	30662	1.25 - 1.49	31.6 - 38.0	900	4	8	203.2	14	355.6
31028	31028	1.50 - 1.74	38.1 - 44.3	1160	5.1	9	228.6	15	381
30664	30664	1.75 - 1.99	44.4 - 50.7	1520	6.7	10	254	16	406.4
31030	31030	2.00 - 2.49	50.8 - 63.4	1800	8	10	254	19	482.6
30666	30666	2.50 - 2.99	63.5 - 76.1	2200	9.7	10	254	20	508
31032	31032	3.00 - 3.49	76.2 - 88.8	2400	10.6	12	304.8	21	533.4
30668	30668	3.50 - 3.99	88.9 - 101.3	2400	10.6	12	304.8	24	610

NOTE: Rope is a very critical link in the cable pulling system. See page 207 for proper pulling rope selection.

# CABLE PULLING LUBRICANTS

## UG5 Ultra GLIDER™ Cable Pulling Lubrication System



The Greenlee UG5 Ultra Glider™ is the “new way” to effectively apply cable lube during cable installation. The Ultra GLIDER™ has several advantages over the manual method used by most contractors today.

- Applies lube more evenly around the cable and more consistently than can be done by hand. This reduces the force required by the cable puller and reduces the chance for damage to the cable.
- During a cable pull, the person feeding the cable usually can also operate the Ultra GLIDER™, which reduces the need for one person on the job.
- Eliminates the need for a person to place their hands near the point where the cable enters the conduit or duct.
- Eliminates the mess and slippery surfaces associated with manual cable lubrication.
- Applicators clean easily with water. Power unit and hose do not require cleaning between jobs.
- 3 pump speeds make it easy to match the lube rate to the needs of the pull.



### SPECIFICATIONS

<b>Dimensions</b>	Depth: 17" (0.43 m) Width: 18" (0.45 mm) Height: 39" (1 mm)
<b>Weight</b>	24 lbs. (11 kg)
<b>Wheel Diameter</b>	8" (20 cm)
<b>Hose length</b>	10' (3 m)
<b>Battery (12V unit only)</b>	Type: Sealed lead acid rechargeable battery DC output: 12-Volt Weight: 14.5 lbs. (6.6kg) Battery Life: Three to four 5 gallon buckets per charge
<b>Motor (120V unit only)</b>	AC output: 120-Volt Amps: 6 Amps

CAT. NO.	UPC NO.	DESCRIPTION
UG511S	10353	ULTRA-GLIDER 120V with UGSAK slip-in applicator kit
UG511T	10355	ULTRA-GLIDER 120V with UGTAK threaded applicator kit
UG511ST	10356	ULTRA-GLIDER 120V including slip-in applicator kit UGSAK & threaded applicator kit UGTAK
UG512S	10357	ULTRA-GLIDER 12V with UGSAK slip-in applicator kit
UG512T	10359	ULTRA-GLIDER 12V with UGTAK threaded applicator kit
UG512ST	10360	ULTRA-GLIDER 12V including slip-in applicator kit UGSAK & threaded applicator kit UGTAK
UG511	10354	ULTRA-GLIDER 120V ASSEMBLY without applicators
UG512	10358	ULTRA-GLIDER 12V ASSEMBLY without applicators
UGSAK	10252	Slip-In Applicator Kit (Includes 2", 2-1/2", 3", 3-1/2" and 4" applicators with case)
UGTAK	10253	Threaded Applicator Kit (Includes 2", 2-1/2", 3", 3-1/2" and 4" applicators with case)
UGSA150	10287	1-1/2" Slip-In Applicator Assembly
UGSA200	10289	2" Slip-In Applicator Assembly
UGSA250	10291	2-1/2" Slip-In Applicator Assembly
UGSA300	10293	3" Slip-In Applicator Assembly
UGSA350	10295	3-1/2" Slip-In Applicator Assembly
UGSA400	10297	4" Slip-In Applicator Assembly
UGSA500	10304	5" Slip-In Applicator Assembly
UGSA600	10311	6" Slip-In Applicator Assembly
UGTA075	10284	3/4" Threaded Applicator Assembly
UGTA100	10285	1" Threaded Applicator Assembly
UGTA125	10286	1-1/4" Threaded Applicator Assembly
UGTA150	10278	1-1/2" Threaded Applicator Assembly
UGTA200	10279	2" Threaded Applicator Assembly
UGTA250	10280	2-1/2" Threaded Applicator Assembly
UGTA300	10281	3" Threaded Applicator Assembly
UGTA350	10282	3-1/2" Threaded Applicator Assembly
UGTA400	10283	4" Threaded Applicator Assembly
12656	12656	20' Extension Hose (MAXIMUM EXTENSION IS 20')

## Cable Pulling Lubricant Selection Guide

Clear Lube™



Cable-Cream®



Cable-Gel®



Winter-Gel™



### APPLICATION

	Clear Lube™	Cable-Cream®	Cable-Gel®	Winter-Gel™
Application Temperature Range (°F)	20°F - 190°F	20°F - 190°F	20°F - 190°F	20°F - 190°F
Application Temperature Range (°C)	-6°C - 88°C	-6°C - 88°C	-6°C - 88°C	-6°C - 88°C
Minimum Storage Temperature	30° F/-1 C	30° F/-1 C	30° F/-1 C	30° F/-1 C
Base	Polymer	Wax	Polymer	Polymer
Average Coefficient of Friction*	0.26	0.11	0.18	0.21
Color	Clear	Yellow	Blue/Green	Blue

### COMPATIBILITY (CABLE TYPE)

	Clear Lube™	Cable-Cream®	Cable-Gel®	Winter-Gel™
Rubber	✓	✓	✓	✓
Neoprene	✓	✓	✓	✓
Nylon	✓	✓	✓	✓
PVC	✓	✓	✓	✓
High-density or cross linked polyethylene	✓	✓	✓	✓
Low-density polyethylene	✓	✓	✓	✓
Semiconducting jacket	✓	✓	✓	✓
Hypalon	✓	✓	✓	✓

\*(IEEE 375-2 test procedure) kinetic coefficient of friction tested at 300 lb/ft sidewall bearing pressure

## Cable Lubricant Quantity Chart

The following equation is a general guideline to determine the amount of cable lubricant to use for an average cable pull.

$$Q = 0.0015 \times L \times D$$

Where:

Q = Quantity of cable lubricant to use in gallons

L = Length of cable pull in feet

D = Diameter of conduit or duct in inches

If the following situations apply, consider using additional lubricant:

- The cable jacket is hard and/or cable is very stiff.
- The conduit is rough or dirty.
- There are many bends to pull through.
- The percentage of conduit filled by the cable is unusually high.
- The conduit is water filled.

### SPECIFICATIONS

Pull Length	1"	2"	3"	4"
200'	0.3 gal.	0.6 gal.	0.9 gal.	1.2 gal.
300'	0.5 gal.	0.9 gal.	1.4 gal.	1.8 gal.
400'	0.6 gal.	1.2 gal.	1.8 gal.	2.4 gal.
600'	0.9 gal.	1.8 gal.	2.7 gal.	3.6 gal.
800'	1.2 gal.	2.4 gal.	3.6 gal.	4.8 gal.
1000'	1.5 gal.	3.0 gal.	4.5 gal.	6.0 gal.

## Cable-Cream® Cable Pulling Lubricant



- Advanced formula, light yellow cream makes pulling faster and easier.
- Compatible with all cable insulation types.
- Dries slowly to a thin, non-conductive, non-hardening residue.
- Adheres well to the cable without messy dripping. Reduces waste.
- Cleans up easily. Non-staining.
- Won't break down or separate after exposure to freezing cold or blistering heat.
- Environmentally safe/non-hazardous.

### SPECIFICATIONS

<b>Weight</b>	CRM-Q - 2.3 lbs. (1 kg) CRM-5 - 42 lbs. (19.1 kg) CRM-1 - 9.5 lbs. (4.3 kg)
<b>Viscosity</b>	30,000 - 45,000 CPS
<b>PH Range</b>	7.0 - 8.0
<b>Average COF</b>	0.11

CAT. NO.	UPC NO.	DESCRIPTION
CRM-Q	35207	Cable-Cream One Quart Squeeze Bottle (.95 l)
CRM-1	35208	Cable-Cream One Gallon (3.79 l)
CRM-5	35209	Cable-Cream 5 Gallons (18.93 l)

## Cable-Gel® Cable Pulling Lubricant



- Polymer-based, no silicon lubricant offers lower friction and easier pulling.
- Compatible with all cable insulation types.
- Cleans up quickly. Non-staining.
- Higher lubricity than competitive products.
- Will not cement itself to the pipe.
- Dries slowly.
- Can be applied by hand or pump.
- Will not break down or separate after exposure to heat or cold.
- Environmentally safe/non-hazardous.

### SPECIFICATIONS

<b>Weight</b>	GEL-Q - 2.3 lbs. (1 kg) GEL-1 - 8.5 lbs. (3.9 kg) GEL-5 - 45 lbs. (20.4 kg) GEL-55 - 498 lbs. (225.9 kg)
<b>Viscosity</b>	8,000 - 12,000 CPS
<b>PH Range</b>	7.0 - 8.0
<b>Average COF</b>	0.18

CAT. NO.	UPC NO.	DESCRIPTION
GEL-Q	35211	Cable-Gel One Quart Squeeze Bottle (.95 l)
GEL-1	35212	Cable-Gel One Gallon (3.79 l)
GEL-5	35213	Cable-Gel 5 Gallons (18.93 l)

## Winter-Gel™ Cable Pulling Lubricant



- Winter-Gel will not freeze until -25° F (-31° C).
- Reduces friction for easy pulling.
- Compatible with all cable insulation types.
- Cleans up quickly and easily.
- High lubricity.
- Can be used all year long.
- Environmentally safe.

### SPECIFICATIONS

<b>Weight</b>	WGEL-Q - 2.3 lbs. (1 kg) WGEL-1 - 9 lbs. (4.1 kg) WGEL-5 - 44 lbs. (20 kg)
<b>Viscosity</b>	10,000 - 14,000 CPS
<b>PH Range</b>	7.0 - 8.0
<b>Average COF</b>	0.21

CAT. NO.	UPC NO.	DESCRIPTION
WGEL-Q	35215	Winter-Gel Pulling Lube One Quart Squeeze Bottle (.95 l)
WGEL-1	35216	Winter-Gel Pulling Lube One Gallon (3.79 l)
WGEL-5	35217	Winter-Gel Pulling Lube 5 Gallons (18.93 l)

## Clear Lube™



LISTED



- Designed for use within electrical or datacom cable pulls.
- Clear and colorless for quick, easy clean-up.
- Environmentally safe, non-hazardous, non-toxic and non-corrosive.
- Easy to apply either by hand, brush or pump.
- Polymer base with no silicon additives.
- Three-year shelf life with no deterioration in lubricant.

CAT. NO.	UPC NO.	DESCRIPTION
CLR-Q	10437	Clear Lube pulling lubricant, 1 quart (.95 l)
CLR-1	10438	Clear Lube pulling lubricant, 1 gallon (3.79 l)
CLR-5	10439	Clear Lube pulling lubricant, 5 gallon (18.93 l)

### SPECIFICATIONS

<b>Weight</b>	CLR-Q - 2.3 lbs. (1.0 kg)
	CLR-1 - 7.6 lbs. (3.5 kg)
	CLR-5 - 44.8 lbs. (20.4 kg)
<b>Viscosity</b>	10,000 - 20,000 CPS
<b>PH Range</b>	6.0 - 8.0
<b>Average COF</b>	0.26

# SWABS, BRUSHES, MANDRELS

## Lube Spreader Swab



- Spreads a coat of wire lubricant in duct before installation of cable.
- Cleans mud, dirt, and light debris from duct before pulling.
- Tapered shape permits bi-directional use.
- Will not damage inner walls of duct.

CAT. NO.	UPC NO.	DUCT SIZE		MAXIMUM DISK SIZE		MAXIMUM RATED CAPACITY		WEIGHT	
		INCH	MM	INCH	MM	LBS.	KN	LBS.	KG
16854	16854	2	50.8	1.75	44.5	4800	21.3	.5	.23
16856	16856	2.5	63.5	2.25	57.2	4800	21.3	.6	.27
16857	16857	3	76.2	2.75	69.9	4800	21.3	1.5	.68
16858	16858	3.5	88.9	3.25	82.6	4800	21.3	2.0	.91
16859	16859	4	102	3.75	95.3	4800	21.3	2.5	1.13
17370	17370	5	127	4.75	120.7	4800	21.3	3.5	1.59
17571	17571	6	152	5.75	146.1	4800	21.3	4.0	1.81

## Wire Duct Brush



- Flat steel bristles for maximum cleaning of sand, grit and light obstructions from duct.
- Pulling eye on one end and smaller twisted eye on the other end for tailing line allows bi-directional use.
- Can be pulled to loosen dried material before using mandrels or spreader swabs.

CAT. NO.	UPC NO.	DUCT SIZE		MAXIMUM DIAMETER		MAXIMUM RATED CAPACITY		WEIGHT	
		INCH	MM	INCH	MM	LBS.	KN	LBS.	KG
39274	39274	2	50.8	1.87	47.5	200	.89	.83	.38
39276	39276	2.5	63.5	2.38	60.5	200	.89	.83	.38
39278	39278	3	76.2	2.87	72.9	200	.89	.83	.38
39280	39280	3.5	88.9	3.38	85.9	200	.89	.90	.41
39282	39282	4	102	3.87	98.3	200	.89	.95	.43
39284	39284	5	127	4.87	123.7	200	.89	1.15	.52
39286	39286	6	152	5.87	149.1	200	.89	1.28	.58

## Flexible Mandrel



- Useful for cleaning out mud, dirt, and light obstacles from ducts before installation of cable.
- Can be used around tight bends due to convex contacts between disks.
- Tapered profile allows pulling in either direction. Pulling eyes on both ends.
- Polyurethane disks do not damage inner walls of duct.

CAT. NO.	UPC NO.	DUCT SIZE		MAXIMUM DISK SIZE		MAXIMUM RATED CAPACITY		WEIGHT	
		INCH	MM	INCH	MM	LBS.	KN	LBS.	KG
39265	39265	2	50.8	1.88	47.7	2330	10.3	1	.45
39263	39263	2.5	63.5	2.19	55.6	2330	10.3	1	.45
39261	39261	3	76.2	2.81	71.4	2330	10.3	1.5	.68
39259	39259	3.5	88.9	3.25	82.5	4800	21.3	3.5	1.59
39257	39257	4	102	3.75	95.3	4800	21.3	4.5	2.04
39255	39255	5	127	4.69	119.1	4800	21.3	6	2.72
39288	39288	6	152	5.81	147.5	4800	21.3	8.5	3.85