

CHANGE[®]

Load Handling Accessories



Catalog 1250 May 2015

Load Handling Accessories - 1250





POLY-DACRON ROPE

Chance Poly-Dacron (PD) Rope is a three-strand flexible combination of synthetic fibers. Its excellent dielectric properties, and high resistance to mildew, rot and chemical damage make it an excellent handline rope.

Features & Applications

- While PD can be used on capstans, it should have one or two more wraps than manila
- PD works well in sliding hitches
- Although PD offers greater tensile strength than manila, it is recommended that natural fiber rope be replaced with same-size synthetic rope for workman handling ease
- A wider cross-section proves better for accidental transverse cutting or severe spot abrasion
- Size-for-size substitution makes it possible to benefit from the strength and economy of synthetic ropes

NOTE: While fibers are moisture absorption resistant, water can be tapped between strands as with any braided rope

Catalog No.	Description	Size	Tensile Strength, Lbs.	Max. Load, Lbs.	Approx. Wt. Per 100 Feet
M18962	Handline	3/8"	2,650	294	4 lb.
M18963	Handline	1/2"	4,200	500	8 lb.
M18964	Bull Line	5/8"	6,700	800	10.5 lb.

Standard 600 feet coils on wooden reel.



POLYPROPYLENE ROPE

Features & Applications

- Strong, lightweight and moisture-resistant
- Water accumulation on surface can be removed by shaking and wiping with absorbent cloth
- As with any rope, polypropylene should be stored in a dry place
- Also, Polypropylene Rope should not be used in running hitches or any friction heating environments
- **Not for use on capstans**

NOTE: While Polypropylene Rope has excellent dielectric strength, water accumulation between strands is a definite hazard

Catalog No.	Description	Size	Tensile Strength, Lbs.	Max. Load, Lbs.	Approx. Wt. Per 100 Feet
†M18951	Handline	1/4"	1,130	113	1 1/4 lb.
*M18952	Handline	3/8"	2,440	244	3 lb.
*M18953	Handline	1/2"	3,780	420	5 lb.
*M18954	Stringing Line	5/8"	5,600	700	8 lb.
*M18955	Stringing Line	3/4"	7,650	1,090	10 3/4 lb.

*Standard 600 feet coils on wooden reel.

†Standard 1200 feet coils on wooden reel.



COMPOSITE FIBER BRAIDED ROPE

Features & Applications

- Made of polyester fibers plied over polyolefin fibers in each of the 12 strands
- Composite strands are braided together to create rope with excellent strength-to-weight ratio
- Low stretch, firm, round construction gives excellent gripping power on capstans

Catalog No.	Size	Tensile Strength, Lbs.	Max. Load, Lbs.	Approx. Wt. Per 100 Feet
C4000798	3/8"	3,880	775	3 1/2 lb.
C4000799	1/2"	6,700	1,340	6 1/4 lb.
C4170586	5/8"	11,600	2,320	11 lb.
C4000800	3/4"	14,500	2,900	14 lb.

Standard 600 feet coils on wooden reel.



GLASS FIBER FILLED NYLON ROPE BLOCKS

Features & Applications

- Shells and sheaves are made of high dielectric, fiber-filled natural nylon
- Shaft is silicon bronze and sheave bearings are oil-impregnated bronze
- Blocks available with Polypropylene or Poly-Dacron rope for minimum stretch and long life
- For working-load considerations, blocks are rated as follows:
 - Double Sheave Blocks, max. 3,500 lb.
 - Triple Sheave Blocks, max. 3,500 lb.
- Dielectric Strength: Dielectric rating in dry weather is 30,000 Volts between bearing and mounting bolt nut
- Maximum rope size is 1/2"

Catalog No.	Description	Weight
C4000919	Double Block with Becket	3 1/4 lb.
C4000918	Triple Block without Becket	3 1/2 lb.

Catalog No.	Description	Weight
C4000914	Two Double Blocks with 120' of 1/2" 3-Str. Polypropylene Rope	12 1/2 lb.
C4000924	Two Double Blocks with 120' of 1/2" 3-Str. Polydacron Rope	16 1/4 lb.
C4000915	Double and Triple Blocks with 150' of 1/2", 3-Str. Polypropylene Rope	16 lb.
C4000925	Double and Triple Blocks with 150' of 1/2", 3-Str. Polydacron Rope	20 1/2 lb.
T4001257	Two Double Blocks with 120' of 1/2", Composite Fiber Braided Rope	14 1/2 lb.
T4001258	Double and Triple Blocks with 150' of 1/2", Composite Fiber Braided Rope	16 1/2 lb.



C4000918

C4000919



HAND LINE BLOCK, SAFETY ORANGE

- 1,000 lb. working load
- Safety orange color
- Fiberglass reinforced nylon body & sheave
- Side-opening body design for easy rigging

Catalog No. PSC4033478
 Weight: 1 1/4 lb. (0.57 kg.)
 Rated working load: 1,000 lb. (454 kg.)

Features & Applications

- 3"-diameter sheave accepts up to 5/8"-diameter rope
- Plated-steel swivel eye allows 360* orientation
- Plated-forged-steel hook has 3/4 throat opening, plus spring-loaded safety latch
- Side-opening design includes high-strength detent-ball pin that is easy to remove and is secured to body with a lanyard

Components available as separate items

Catalog No.	Description	Weight
PSC4033479	Lanyard and Pin Kit	1/4 lb. / 0.11 kg.
PSC4033480	Spring Latch Kit	1/8 lb. / 0.05 kg.

SNATCH BLOCKS

Features & Applications

- Lightweight, cast-aluminum housing and sheave with hinged, cotter-lock yoke and either forged-steel or steel meat hook makes for quick, easy rigging in various applications
- Hand line and block and tackle efficiency is increased with forged-steel, swivel-eye suspension ring, plus three-inch sheave operating on bronze oilite bearings
- Maximum rope size is 5/8"
- Maximum load capacity is 1,250 lbs. on 2230 Series only



C4176067 or 22301



22302



M1849

HAND LINE HOOK

Features & Applications

- Hook can be attached any place along the hand line by two large holes
- The long point accommodates most items to be raised and lowered at the pole
- Maximum load of hook is 500 lbs. with load seated at bottom of hook

Catalog No.	Description with Retainer Latch	Weight
22301	1250 lb. Block with forged steel hook	2 lb./9 kg.
22302	1250 lb. Block with steel meat hook	2 lb./9 kg.
C4176067	2500 lb. Block with forged steel hook	6 lb./2.7 kg.
PS400006	Ball Lok Pin Chain for 22301 or 22302	1/4 lb./0.11 kg.

WEBBING SLINGS

Features & Applications

- Made in high-visibility "safety yellow"
- Latex-treated for increased abrasion resistance
- Softest, most pliable of nylon webbing slings
- Standard fabrication does not include metal of any kind in body or end fittings
- Designed to handle delicate loads
- Flexible design allows for easy handling and storage
- Two basic types include 10 sizes in Endless version and one size in Return Eye style

WARNING: When selecting slings, the following must be considered:

1. Weight of load
2. Number of slings used to make lift
3. Type of hitch (vertical, choker, basket)
4. Effect of sling-to-load angle on sling capacity (see table A). Increasing the angle of the sling increases the strain. Therefore, it decreases the lifting capacity of the sling. Capacities listed are for vertical lifts
5. Chance slings must be considered as non-insulating

NOTE:

- All Chance slings are identified with a heat-imprinted sewn-on tag that includes capacities, width, style and length
- All Chance slings carry the required OSHA identification tags



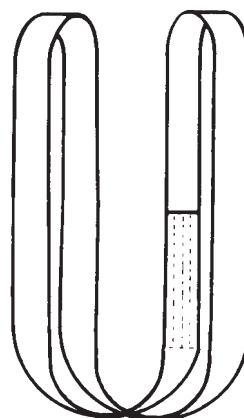
BASIC SLING TYPES

Endless

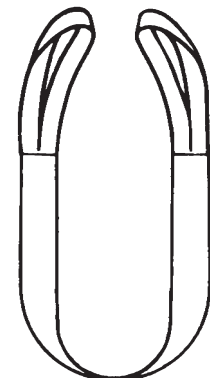
- Most versatile
- Used in vertical, basket or choker hitch, it conforms precisely to shape of load
- Provides best gripping and holding power in upright position
- Easiest to use and lasts the longest because there are no eyes to predetermine wearing points
- Endless construction permits the two parts of the sling which go around the load to spread apart and provide a "cradle" for load

Return Eye

- Designed primarily for use in choker hitch
- Works equally well for basket and vertical hitch applications
- Constructed with two widths of side-by-side webbing and held in place by third width of webbing which binds the two together
- This design results in eye openings which are in the same place as the sling body, which is best for choking as the sling body remains flat against the load



Endless



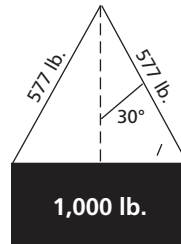
Return Eye

WEBBING SLINGS



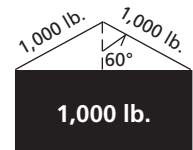
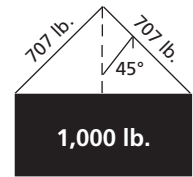
How To Carry Two Full Buckets

- Above illustrations typify the stresses imposed on slings when legs are attached to the load at various angles
- While rated capacities are shown in this catalog, these tables were inserted primarily to show the severe reduction in capacity when a sling is operated at a wide angle
- Whenever head room permits, it is recommended that the angle with the vertical not exceed 45°
- Where head room is small and sling must be spread at an excessive angle, special care must be used in selecting a sling
- In such cases, consult your distributor or Hubbell Power Systems, Inc.



**TABLE A
SLING ANGLES**

Sling Angle with Vertical	Stresses per Sling Leg Per 1000 lb. Total Load
0	500
5	502
10	508
15	518
20	532
25	552
30	577
35	610
40	653
45	707
50	778
55	872
60	1000
80	2880



CHANCE WEBBING SLINGS RATED LIFTING CAPACITIES



CATALOG NUMBER	WIDTH Inches	LENGTH Feet	MAXIMUM CAPACITIES* (LBS.)			TYPE
			Basket	Choke	Vertical	
C4170133	2"	6'	7200	2900	3600	Return Eye (Eye length: Approx. 4")
C4170134	1"	3'	4800	1900	2400	Endless
C4170135	1"	4'	4800	1900	2400	Endless
C4170136	1"	5'	4800	1900	2400	Endless
C4170137	1"	6'	4800	1900	2400	Endless
C4170138	1"	8'	4800	1900	2400	Endless
C4170139	1 3/4"	3'	6400	2500	3200	Endless
C4170140	1 3/4"	4'	6400	2500	3200	Endless
C4170141	1 3/4"	5'	6400	2500	3200	Endless
C4170142	1 3/4"	6'	6400	2500	3200	Endless
C4170143	1 3/4"	8'	6400	2500	3200	Endless
C4170588	1"	3'	12800	5000	6400	Endless
C4170589	1 3/4"	5'	17200	6900	8600	Endless

*MAXIMUM WORKING LOAD IN POUNDS DO NOT USE SLINGS BEYOND RATED CAPACITY.



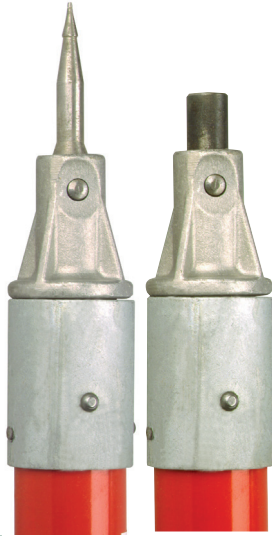
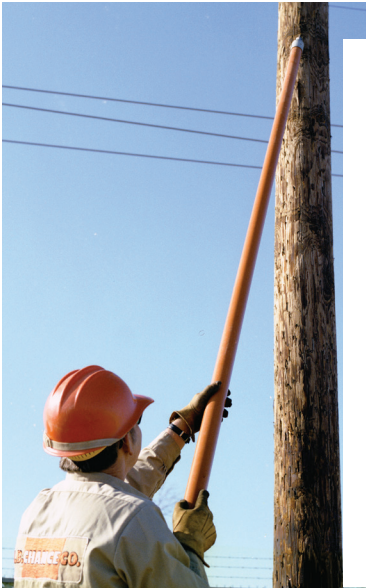
POLE HANDLING TOOLS



EPOXIGLAS® HANDLE CANT HOOK

- Replaces the conventional wood handle cant hook
- Handle is made of 2" diameter x 4' long orange EPOXIGLAS
- Hook is one-piece high carbon steel, end upset, forged and drawn to a point
- Gripper casting incorporates two sets of teeth for improved grip on all pole sizes
- Hook base casting is adjustable to set poles of varying diameters
- A hex head bolt and lockwasher hold base casting in desired position

Catalog No.	Description	Approx. Wt. Ea.
C3050008	Cant Hook	10 lb./4.5 kg.



EPOXIGLAS® PIKE POLE

- The point, secured by a spring-button lock, can be reversed to protect point and avoid damage to equipment when not in use
- Does not absorb moisture so it will not rot or warp
- Features excellent mechanical properties and is relatively lightweight

Catalog No.	Pole Diameter & Length	Approx. Weight
214PH	2" x 14'	10½ lb./4.8 kg.
216PH	2" x 16'	11¾ lb./5.3 kg.
218PH	2" x 18'	13 lb./5.9 kg.

Catalog No.	Description	Approx. Weight
024095P	Pike Pole Point Replacement	.49 lb

CHANCE POLE TONG

- Designed to be used like giant pliers, one worker can guide a pole into place during installation
- Before this tool was developed, it took two workers with peavey sticks to do the job
- Applying pressure to keep the jaws closed, a worker controls forward, backward, side-to-side, and rotary movements of pole as it is lowered by winch or winch line on a hydraulic boom
- Not necessary to regrip the pole once jaws are firmly hooked slightly above ground level
- Fits poles from 7" to 16" in diameter

Catalog No.	Handle Length	Approx. Weight
C200T	3 ft.	17 lb./6.6 kg.



POLE WRENCH

- Two-in-one tool performs functions of a cant hook and pole tong without spiking the pole
- With positive control, it grasps poles of round or other geometric cross sections made of metal, fiber, concrete or wood
- Latex-impregnated nylon-web strap (1-3/4" x 6') rated at 7,500-lb. tensile strength, securely grips even large-diameter poles
- Rugged design also includes a 2"-diameter x 4' Chance orange Epoxiglas® handle with plastisol butt cap, a cast-aluminum head and two forged-steel bails.

Catalog No.	Description	Weight
C3050021	Pole Wrench	6½ lb./2.9 kg.



KELLEMS PULLING GRIPS

- for Overhead Pulling
- made of high-strength galvanized-steel strand

Features & Applications

- Designed for overhead pulling
- Made of high-strength galvanized-steel strand

WARNING: When selecting slings, the following must be considered:

1. Do not run grips or swivels over bullwheels while under tension
2. Two Punch-Lok® bands should be firmly attached, approximately 1" and 2" from the grip's tail. Banding is required to ensure maximum reliability and guard against accidental release
3. **DUA-Pull type grips only:** Double-braided rope, as in 2-in-1 type, must be back-spliced for approximately 2/3 of the mesh length for best gripping results. Grip size must be selected by diameter of back splice.

⚠ WARNING

Never use wire mesh grips up to listed approximate breaking strength. Always use an appropriate safety factor when selecting grips for the working load in your application. Kellems minimum recommended factor of safety for pulling grips is five (5). Additionally, banding the tail end of the grip is recommended for maximum grip performance.

DUA-Pull® Type Grips

Features

- Highest-strength pulling grips manufactured for overhead transmission line stringing
- Work with both bare and insulated conductors, plus synthetic rope
- Two-over/two-under weave design delivers exceptional strength and gripping ability
- This is made possible by putting more steel mesh in contact with cable or rope surfaces

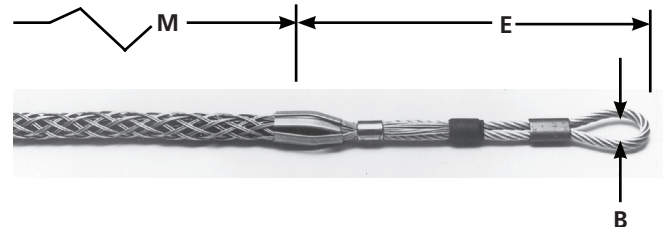
Ordering Information

Catalog Number	Diameter Ranges (inches)		Approx. Breaking Strength	Dim. (in.)		Eye (in.)	Dia., Cable & Grip**	Color Code
	Conductor	Rope*		E	M			
033271037	.19 - .37	.25 - .65	6,500 lb.	10	24	0.218	.200"	Black
033271038	.38 - .62	.50 - .90	14,000 lb.	12	36	0.375	.280"	Dk. Green
033271039	.63 - .87	.75 - 1.10	20,000 lb.	13	48	0.437	.360"	Red
033271040	.88 - 1.12	1.00 - 1.50	30,600 lb.	15	60	0.500	.500"	Blue

Dimension E = Eye length Dimension M = Mesh length at nominal dia.
 *For rope, select smallest size grip which meets required working load.
 **Add to cable or rope diameter.

Applications

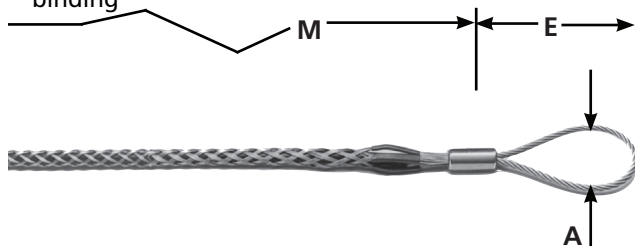
- Primarily used in overhead transmission line construction
- Designed for loads and safety considerations that require an extra high-strength grip
- Will mate with swivels and link-type connectors
- Also used for attaching pulling lines to conductors, conductors to running boards, and "double socking" for conductor-to-conductor connections
- DUA pull line accommodates ACSR, ACAR, plus, all aluminum and copper conductors
- Grips also accommodate ground wires, messenger strands, plus wire and synthetic ropes



Multiple-Strength Type Grips

Features

- Designed for pulling ACSR, aluminum or copper bare conductor, ground wires, messenger strands, wire rope and insulated cables
- Made of high-strength, galvanized-steel strand
- Feature a mesh construction of single, double and triple weave for firm holding power
- Endless-weave Grip end lies flat on the cable and will not snag
- Flexible Eye: Flexible, wire-rope eye will mate with a swivel and pass through blocks and sheaves without binding



Applications

- Ideal for overhead transmission and distribution line stringing for moderate loading
- An economical tool for attaching conductors to pull lines and "double socking" for conductor-to-conductor connections

Ordering Information

Catalog Number	Cable Dia. Range (inches)	Approx. Breaking Strength	Dimension (in.)		Eye (inches) Dia. A	Color Code
			E	M		
03302044	0.25 - 0.49	6,800 lb.	9	26	1/4	Green
03302046	0.50 - 0.74	10,000 lb.	9	32	5/16	Brown
03302048	0.75 - 0.99	14,400 lb.	11	41	3/8	Light Blue
03302050	1.00 - 1.24	24,600 lb.	12	52	1/2	Gold
03302052	1.25 - 1.49	30,600 lb.	12	56	1/2	Black
03302054	1.50 - 1.74	30,600 lb.	12	60	1/2	Red

Dimension E = Eye length
 Dimension M = Mesh length at nominal diameter



KELLEMS PULLING GRIPS

- for Underground Pulling

K-Type Grips

Features

- Kellems Rotating-Eye K-Type Pulling Grips are made of high-strength galvanized-steel strand
- Feature double-weave mesh for greater strength and added mesh contact with the cable
- Designed to handle longer or heavier pulling jobs
- Forged eye mates with a swivel or shackle

Applications

- Specially designed for use in the installation of underground power cables
- Also made for communication and service lines into factories, shopping centers, construction projects, and general underground electrical construction

Ordering Information

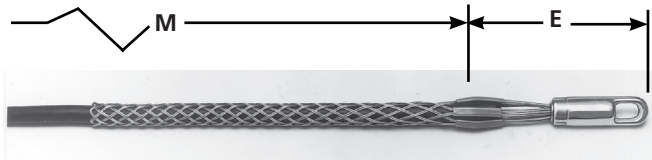
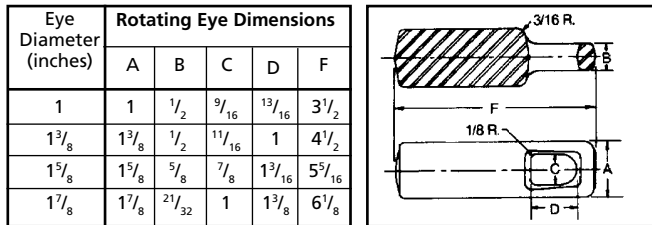
Catalog Number	Cable Diameter Range (inches)	Approximate Breaking Strength (lb.)	Dimension (in.)		Eye (inches) Diameter A
			E	M	
03301024	0.75 - 0.99	9,600	6	32	1
03301025	1.00 - 1.49	16,400	7	33	1 ³ / ₈
03301026	1.50 - 1.99	16,400	7	34	1 ³ / ₈
03301027	2.00 - 2.49	27,200	9	36	1 ⁵ / ₈
03301028	2.50 - 2.99	33,000	10	38	1 ⁷ / ₈
03301029	3.00 - 3.49	41,000	10	39	1 ⁷ / ₈

Dimension E = Eye length

Dimension M = Mesh length at nominal diameter

Rotating Eye Feature

- Equipped with a forged-steel rotating eye which can be attached to a swivel
- Durable and compact eye threads through blocks and sheaves without binding
- Rotating eye is not a swivel and will not turn while under tension
- Can turn to relieve pulling torque when tension is relaxed
- If constant swivel action is required, a swivel should be used

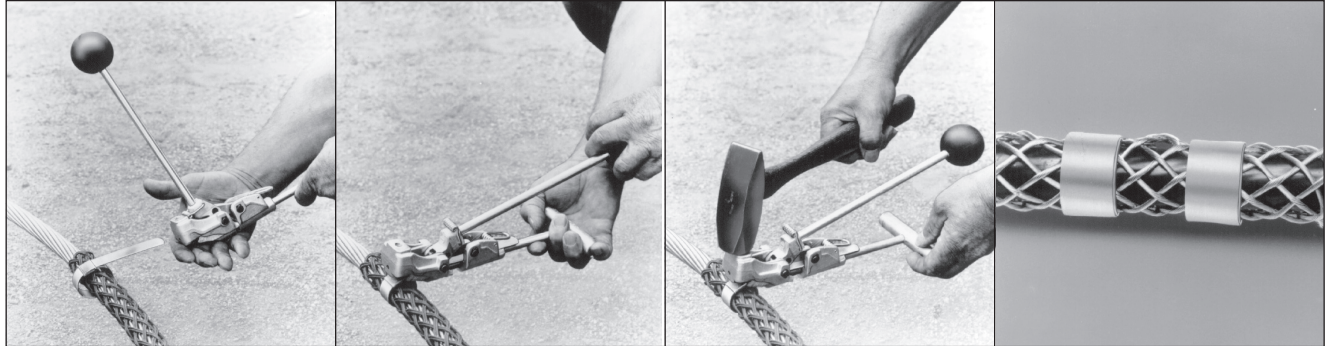


! WARNING

Never use wire mesh grips up to listed approximate breaking strength. Always use an appropriate safety factor when selecting grips for the working load in your application. Kellems minimum recommended factor of safety for pulling grips is five (5). Additionally, banding the tail end of the grip is recommended for maximum grip performance.

KELLEMS PULLING GRIPS

Bands and Tools for Pulling Grips



Features & Applications

- Punch-Lok® Bands are applied over the tail of a grip to prevent mesh from being tripped or pulled loose
- Ensure full gripping action by locking mesh of tail in tight contact with cable or rope
- When tail of grip is the leading end, the bands are particularly important to prevent accidental release caused by tripping on obstructions
- A conductor-to-conductor (double socking) pulling operation is a good example of two grips connecting two conductors to form a temporary splice
- Bands should be applied to the ends of grips as illustrated herein
- It is also common to tape over the banded tail area to ensure smooth passage through sheaves

Note:

- During installation, each end of the grip should be taped down securely to the cable to ensure smooth passage with the cable and guard against accidental release
- See end bands listed below

Note:

- In all cases, two Punch-Lok Bands should be doubled, wrapped approximately 1" and 2" from the grip's tail
- Banding is required to ensure maximum reliability and guard against accidental release

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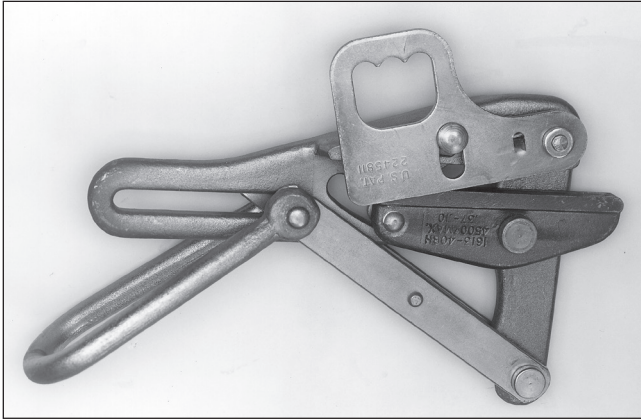
Punch-Lok Tools

Catalog No.	Description
20320048	P-1 Heavy Duty

Punch-Lok Bands

Catalog No. (one each)	Grip Banding Range (Inches)	Band Width (Inches)	Band Inside Diameter (Inches)	Model
20320050	1/4 - 1 1/8	3/8	1 3/8	0-311
20320051	1 1/8 - 1 5/8	3/8	2	0-316
20320052	1 5/8 - 2 1/4	5/8	2 1/2	0-10
20320053	1 1/4 - 3 1/2	5/8	4	0-16
20320054	3 1/2 - 5	5/8	6	0-24

Hot Line Wire Grips



Features & Applications

- Designed for use with hot line tools or regular line work
- Top ring for placing the grip on a hot line with a hot stick
- When released, the grip locks on line and will not fall off
- Holds grip firmly and prevents slipping
- Body is heat-treated steel alloy and made to rigid specifications

Jaws	Catalog No.	WIRE SIZE — AWG OR MCM		Safe Load, lb.	Weight lb./kg.
		Max.	Min.		
▲	T161340H	1/0 Str. (.373")	8 Sol. (.120")	4500	3/1.4
▲	T16845H	4/0 Str. (.550")	4 Str. (.218")	8000	6.25/2.8
●	T165640H	336.4 ACSR (.741")	3/0 ACSR (.530")	8000	7.75/3.5
●	T165650H	477 ACSR (.860")	397.5 ACSR (.740")	8000	7.75/3.5

▲ = for use on small bare wire and cable (solid and strand).

● = for use on bare aluminum, ACSR and copper conductor.

Wire Puller Hook



Features & Applications

- Fits most popular porcelain or polymer deadend insulators
- For use in cutting deadends and pulling slack on automatic deadends
- Holds the insulator and deadend assembly directly in line with the conductor, eliminating the need to hold the insulator up with an insulator fork for inserting wire into the automatic deadend
- Can be applied by hand or with hot stick
- Has maximum rated load of 3500 lbs.

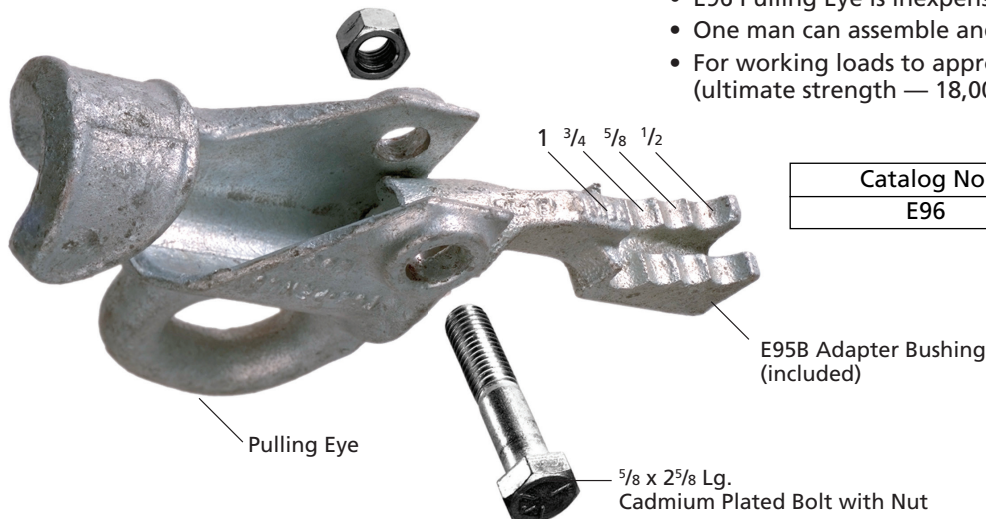
Catalog No.	Description	Weight
WPH3	Wire-Puller Hook	1½ lb./68 kg.

Standard Pulling Eyes

Features & Applications

- Economical resource provides a large offset eye to accommodate three-ton chain hoist hooks
- Leaves anchor eye free with plenty of clearances for attaching formed wire grips

- E95B Adapter Bushing quickly adjusts to fit 1/2", 5/8", 3/4", or 1" anchor rods
- By removing the Adapter Bushing, the E96 Pulling Eye fits 1 1/4" rods
- E96 Pulling Eye is inexpensive and easy to use
- One man can assemble and hook up in minutes
- For working loads to approximately 6,000 pounds (ultimate strength — 18,000 pounds)



Catalog No.	Weight
E96	5 lb./272 kg.