

Kearney™ Tools and Maintenance Equipment



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Powering Business Worldwide

Insulated head hand-held clampsticks

Eaton carefully constructs its Cooper Power™ series Kearney™ sticks in yellow fiberglass and are tested to 100 kV-RMS per foot.

Kearney fiberglass poles are durable and resistant to impact and abrasion. There are no seams to collect dirt or contamination.

Polycarbonate components such as the slide handle with safety latch and the hanger provide sturdy, responsive operation.

Kearney clampsticks are designed for overhead and underground service, and conform to IEEE®, ASTM* and OSHA standards.



Figure 1. Polycarbonate ferrule with fully opening, highly visible hook and probe for eye location and engagement



Figure 2. Polycarbonate slide handle with safety latch for smooth, responsive operation

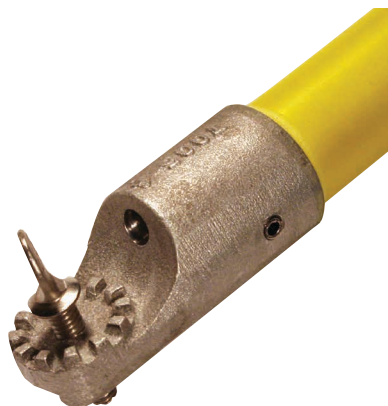


Figure 3. End cap can be replaced with a Fit-On™ head for added versatility

Cam-EL™ clampstick

Designed for URD switching, the Cam-EL™ Clampstick features a special cam-action lever to improve hold and control. After the hook is pulled tight, the special Cam-EL Lever provides an extra ratchet for a secure hold.



Figure 4. Cam-EL clampstick

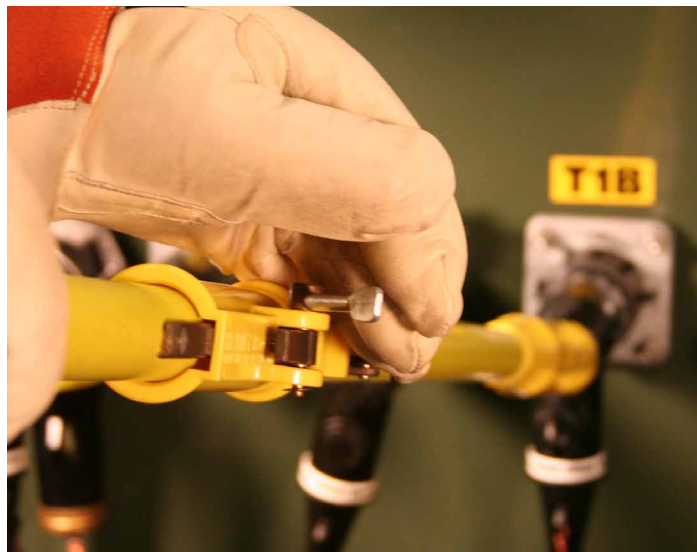


Figure 5. An extra ratchet for a secure hold

* The Internal Rod Clampstick and the Hinged Clampstick do not meet all the mechanical requirements of ASTM F711-02.

Insulated head clampsticks

Both external and internal rod clampsticks offer rugged operation for overhead and underground service. Many components of the external and internal rod clampsticks are interchangeable.

External rod clampstick

The pole is foam filled and the rod is solid. The rod can be examined and cleaned without disassembly. The external rod can be easily removed if necessary.

Internal rod clampstick

The operating rod is protected from damage and contamination, and "floats" inside the pole for smooth operation.

Streamline design allows for easier operation and fewer external parts to catch obstructions.



Figure 6. External rod clampstick (left) and internal rod clampstick (right)

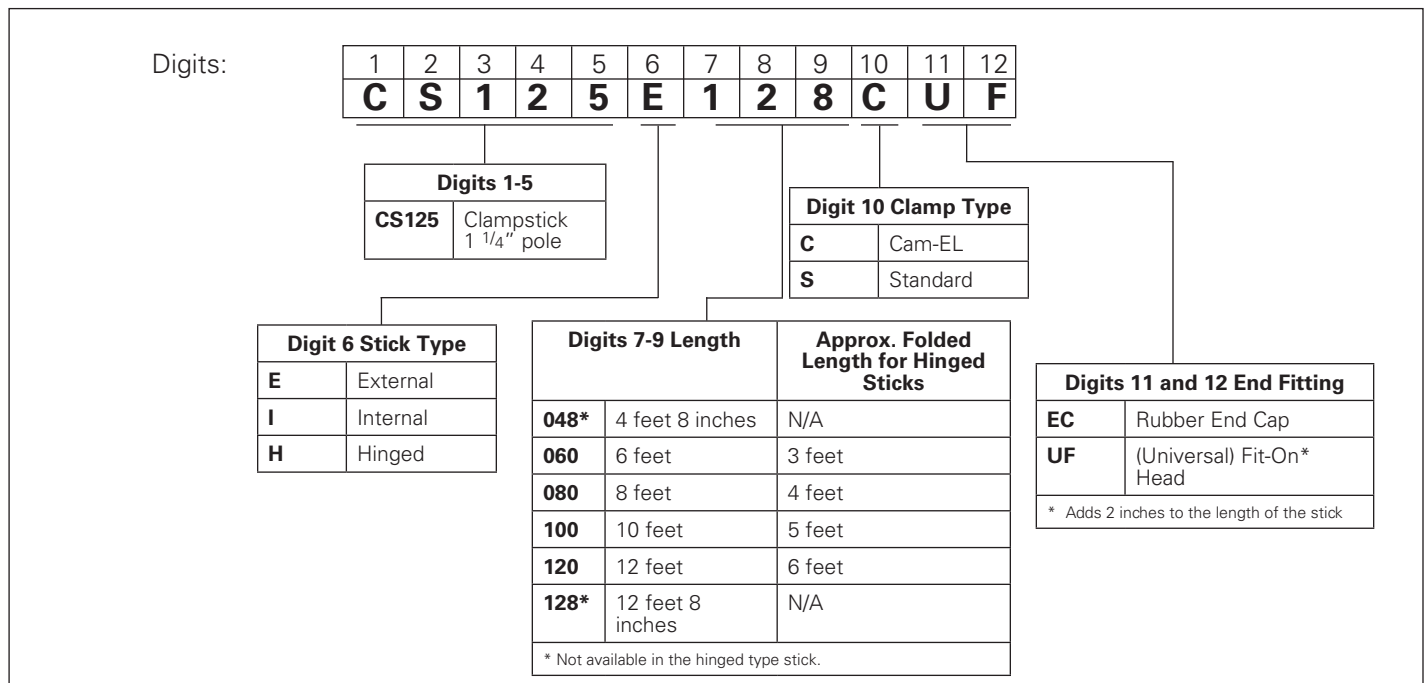
Hinged clampsticks

Self-latching hinge mechanism provides quick extension with its rigid locking sleeve. The hinge is compact with minimum protrusion from the pole. Construction, details and operation are the same as the one-piece design. (Available as internal rod design only.)



Figure 7. Hinged clampstick

Clampstick Significant Digit Catalog Number System



Tie sticks

Two styles of tie heads are available on different length poles: Swivel blade and fixed prong. The Fit-On™ head on the other end offers versatility for a wide range of work requirements.

The swivel blade tie head is especially suited for ties without loop ends. Fixed prong style is generally preferred for looped-end ties.

A combination tie-wire assistant and tool hanger is mounted on each pole.

Both tie stick heads are available as Fit-On head tool accessories, in addition to more than 25 other useful Fit-On head tools. Other lengths and combinations are available upon request.



Figure 8. Swivel blade tie stick



Figure 9. Fixed prong tie stick

Switch disconnect sticks

These permanently bonded heads are designed for operating cutouts and disconnects, and for open-link fuse installation and removal.

The NEMA® head model is bronze with a notched probe per NEMA® Standard for switchstick use with distribution cutouts and open link, Trip-O-Link® fuses.

The button tip head is silicon bronze, one piece construction. The stem is 1 3/8" long, with a 3/8" diameter.

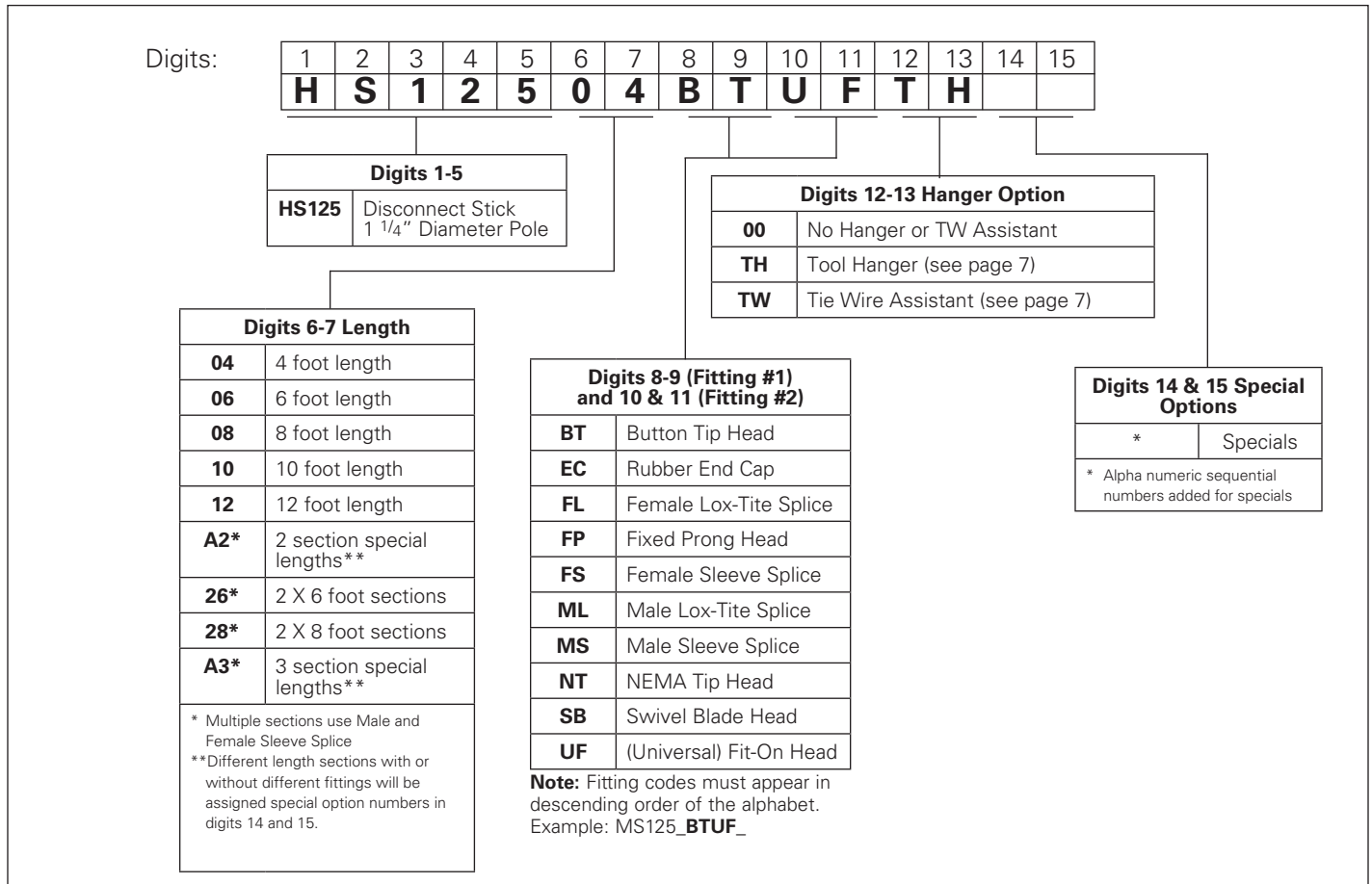


Figure 10. NEMA head switch disconnect stick



Figure 11. Button tip switch disconnect stick

Disconnect Stick Significant Digit Catalog Number System



Fit-On head sticks

These are the master hot sticks for the Fit-On head tools shown on page 8, page 9, and page 10. They are one-piece and multi-piece with sleeve splice connection. All models are 1 1/4" diameter. (Lox-Tite splices optional.)

Fit-On head tools may be attached at the most convenient working angle up to 90°. Tie-wire assistant/tool hanger combinations are available as an option.



Figure 12. Fit-On head stick

Telescoping Fit-On head sticks

Versatile telescoping stick adjusts to required lengths, eliminating unwieldy lengths while providing a compact stick for use with bucket trucks and easy storage.

They have a 1" inner pole diameter, and a 1 1/4" diameter for the outer section. Rotation of upper collar loosens or tightens expansion locking mechanism. Pole is easily taken apart for cleaning.

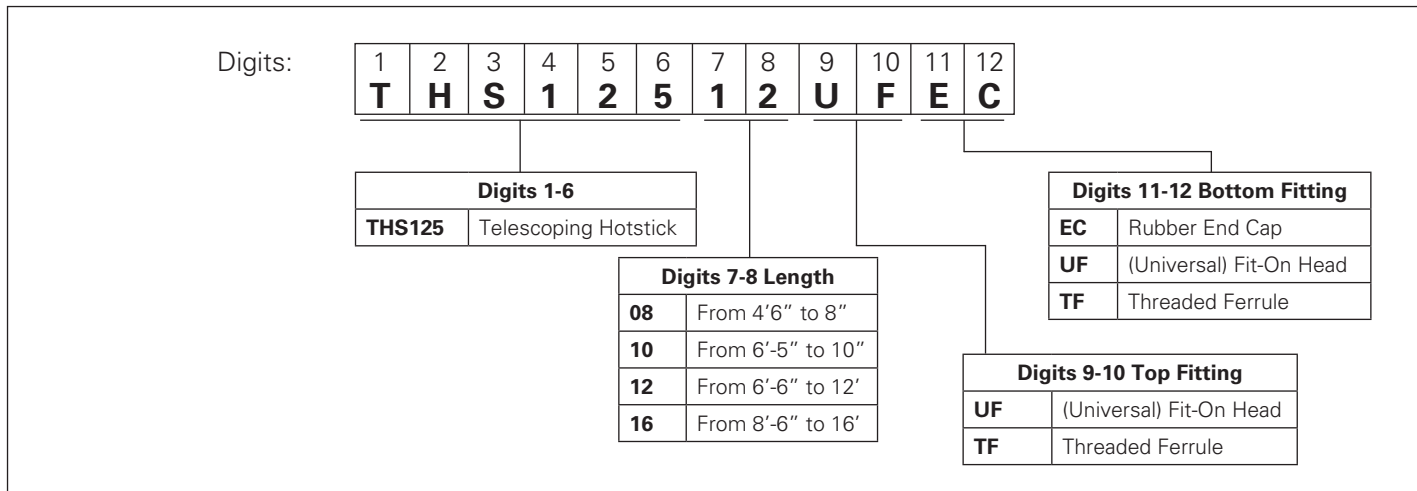


Figure 13. Telescoping Fit-On head stick (UF)



Figure 14. Telescoping threaded ferrule head stick (TF)

Telescoping Stick Significant Digit Catalog Number System



Fuse pullers

Remove and replace fuse cartridges up to 1 1/4" diameter - up to 3" with special order head noted below. The head is adjustable to 60° on either side of center, and can be locked at any angle. Open and close padded jaws by turning the pole. The two-section fuse pullers have poles coupled with sleeve splices. The sleeve splices can be easily separated for compact storage.

Table 1. Fuse pullers

Overall Pole Length	Sections	Section Length	Catalog Number
6'	1	6'	130517-01
12'	2	6'	130517-04

Special head for fuse tubes up to 3" diameter **Catalog No. 136-1**



Figure 16. Fuse puller



Figure 15. Fuse puller

Pole splices and accessories



Figure 17. Tie wire assistant

The tie wire assistant serves as both a double bladed chisel edge tool for prying ties without loop ends, and as a tool hanger. It is made of stainless steel and easy to install.

Catalog No. 18210-2S6.



Figure 18. Tool hanger

Stainless steel screw clamp holds the hook firmly on the pole. The tool hanger is easy to install and fits 1 1/4" or 1 1/2" diameter poles.

Catalog No. 36666CPS.



Figure 19. End cap

Black end caps are made of wear-resistant and shock absorbing rubber. Fits 1 1/4" poles.

Catalog No. 30804-S6

Catalog No. 30804-2S6 (use on all internal rod and hinged clampsticks)

All Kearney fiberglass poles can be easily fitted with either of two models shown below.



Figure 20. Sleeve Splice

Ferrule and socket fit snugly, locked together by a spring button for quick release.

Table 2. Sleeve splice measurements

Sleeve Splice Measurements	Catalog Number
1 1/4" - both sections	4604-23
1 1/2" - both sections	4604-1



Figure 21. Lox-tite splice

Bronze sleeves screw together, locked by internal ratchet. Button on the side releases the lock.

Table 3. Lox-Tite Splice Measurements

Lox-Tite Splice Measurements	Catalog Number
1 1/4" - both sections	3355
1 1/2" - both sections	3355-1

Fit-On head tools and accessories



Figure 22. Fit-On head accepts all accessories



Figure 23. Disconnect head

The disconnect head is a silicon bronze tool used for opening and closing switches and cutouts. The switch hook has a button end to prevent slipping out of the disconnect pull ring. Finger is 1 1/2" long, 3/8" diameter; button is 5/8" diameter.

Catalog No. 4455-9.



Figure 24. Bolt holder

The bolt holder holds bolts or clevis pins during installation. After the bolt is in place, a pull on Fit-On head pole will disengage holder. Silicon bronze.

Catalog No. 4455-2.



Figure 25. Fixed double prong, tie-wire head

The fixed double prong, tie-wire head is a silicon bronze, two prong model for looped end ties. The fork shape is useful in congested areas to keep the head from swinging into the crossarm or other line equipment.

Catalog No. 4455-17.



Figure 26. Swivel prong tie-wire head

The prong is spring loaded to assist rotation. It is the choice for fast operation of looped tie-wire.

Catalog No. 4455-68.



Figure 27. FCI tool

The FCI tool is used to install overhead SE or SEC style fault indicators from the ground using a telescoping hot stick. The pulling eye of the indicator fits in the top of the tool and is held in place with a 1/4 turn of the tool. The FCI can easily be removed from the line by reversing the installation process.

Catalog No. 4455FCI

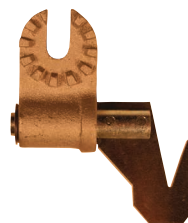


Figure 28. Rotary blade, tie-wire head

The rotary blade, tie-wire head is spring loaded to follow winding or unwinding of ties with or without end loops. Notched blade hooks tie-wires to ease pulling down or loosening close ties. The body is aluminum. The blade is plated steel.

Catalog No. 4455-85.



Figure 29. Cotter key installer

The cotter key installer holds straight or humpback cotters. The tool is tipped to disengage the cotter after insertion. The key is then tapped in place with the tool. Not for removing cotter keys.
Catalog No. 4455-108.



Figure 30. Ball socket adjuster

The ball socket adjuster holds insulator assemblies steady for removing or inserting ball into socket. The chisel point is used for spreading cotter keys. Silicon bronze.
Catalog No. 4455-22.

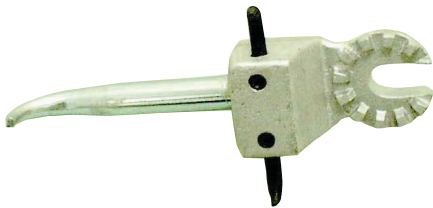


Figure 31. Cotter key puller

The cotter key puller is the best choice for cotter key removal from ball and socket ends. Side hooks can be inserted in the key, and pulled by rolling the Fit-On head pole.
Catalog No. 4455-69.

Table 4. Accessories

Description	Catalog Number
1/2" - 2" Fuse Tube Size	4455-13
1 1/2" - 3" Fuse Tube Size	4455-42



Figure 32. Fuse puller

The fuse puller is available in two sizes to fit fuse tubes up to 3". Padded jaws are operated by turning the Fit-On head pole. A button-head disconnect hook is located on one jaw. Angle of head the can be adjusted through 120°.



Figure 33. Clampstick head

The clampstick head is used for installation and removal of hot line and ground clamps. A notch in the cap engages the lug on the clamp. A turn of rotating cap locks the tool on the screw eye.
Catalog No. 4455-11.



Figure 34. Insulator tong

The insulator tong jaw fits in the groove between the head and porcelain skirt of disk type insulators. It is adjustable for disks from 6-12". Ends are notched to hold Squeezon® connector.
Catalog No. 4455-67.

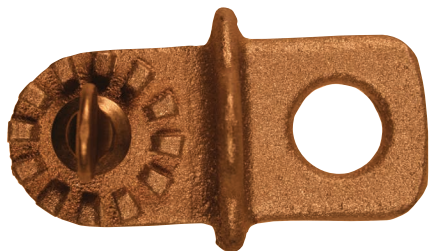


Figure 35. Clampstick adapter

The clampstick adapter converts the Kearney hotstick into a Fit-On head pole. The clampstick is hooked into the eye on adapter and clamped shut.

Catalog No. 4455-49.



Figure 36. Fit-On stick head

The Fit-On stick head is the master head for Fit-On sticks. It is fastened to 1-1/4" poles by spring-pin and epoxy cement.

Catalog No. 4455.



Figure 37. Ratchet wrench

The ratchet wrench has a 1/2" standard socket drive. The wrench can be rotated 360° by the Fit-On head pole.

Catalog No. 4455-6.



Figure 38. Flexible socket adapter

The flexible socket adapter is a 1/2" drive socket wrench adapter mounted on a spring-return universal joint. The adapter deflects up to 90° for hard to reach jobs.

Catalog No 4455-77.



Figure 39. Saw handle

Saw handle converts Fit-On head pruning saw into hand-operated model. Pistol grip is aluminum.

Catalog No. 4455-63.



Figure 40. Pruning saw

Pruning saw spring tempered steel blade cuts in both push and pull directions. Screw fastened to Fit-On head adapter.

Catalog No. 4455-26.



Figure 41. Semi-tubular conductor cleaning brush, Fit-On head model

Semi-tubular steel conductor cleaning brushes are recessed within PVC holders for quick removal of oxide film and dirt. Brush elements are replaceable.

Table 5. Semi-Tubular Conductor Cleaning Brush Ordering Information

Description and Maximum Conductor Size	Model	Catalog Number
Fit-On Head Model ACSR, 500 MCM Str.	477	4455-105
Head Element and Replacement Brush for Fit-On Head Model ACSR, 500 MCM Str.	477	48900
Fit-On Head Model MCM Str.	954	4455-112
Head Element and Replacement Brush for Fit-On Head Model MCM Str.	954	48900-2



Figure 42. Clampstick leverage bar

The clampstick leverage bar provides operators with an increased level of ease and comfort when performing loadbreak switching operations. The clampstick leverage bar is 18" long and has a yellow vinyl handle grip.

Catalog No. CS125UFLTOOL.



Figure 43. V-shaped conductor cleaning brush, hand model



Figure 44. V-Shaped brush, Fit-On head model

The V-shaped conductor cleaning brush has two wire steel brushes set to accommodate a wide range of conductor sizes. Each brush is setscrew mounted. Brushes can be rotated when worn for even wear of bristles.

Table 6. V-Shaped Conductor Cleaning Brush Ordering Information

Accessories	Catalog Number
Hand Model w/Guard	118004
Fit-On Head Model	4455-62
Replacement Element for both models	19100-S6

Fiberglass care products



Figure 45. Fiberglass cleaner/wax

Kearney fiberglass care products are specifically intended to maintain the protective characteristics of fiberglass poles and equipment in electrical service. When used as a two-part program of cleaning/waxing-refinishing, it represents a simple, easy way to restore a clean, high gloss, water-repellent finish to used poles as well as preserve their operating properties.

Table 7. Fiberglass Care Products

Description	Packed	Catalog Number
Fiberglass Cleaner/Wax	16 fl. oz. bottle (473 ml) Packed 12 bottles per case Minimum order - one case	131840

Cumalongs (Grips)

Exclusive wedge grips provide a positive, tight grip on the conductor for non-kinking, in-line pull. Kearney Cumalongs are easily installed and removed with a tie stick. When the tie stick is removed from the ring, the safety latch drops over the conductor slot to keep the Cumalong on the conductor.

For faster, easier operation, right and left hand styles enable the lineman to always have the conductor slot facing him. All models except 16847 Series include hardened steel rollers for easier opening and positive holding. Cumalongs are not for use with guy wires.

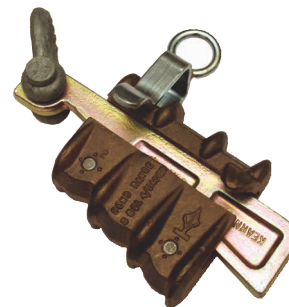


Figure 48. No.1833-3, Right-hand grip

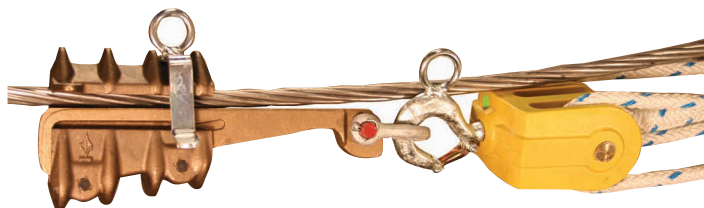


Figure 46. Cumalongs

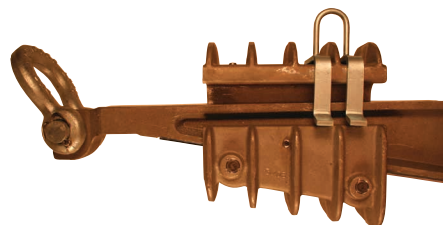


Figure 49. No. 130428, Right-hand grip

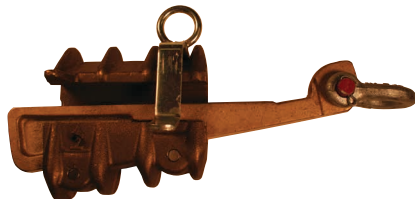


Figure 47. No. 1833-4, Left-hand grip

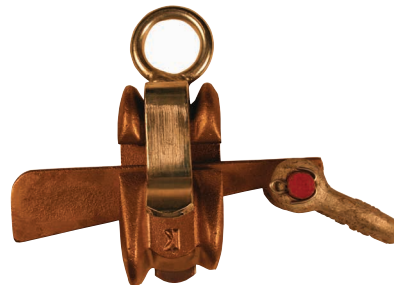


Figure 50. No.16847, Left-hand grip

Table 8. Cumalongs (Grips) (not for use with guy wires)

Catalog Number		Body Material	Conductor Range		Maximum Working Load (lbs.)	Replacement Wedge	
Left Hand	Right Hand		Minimum	Maximum		Catalog Number	Material
16847	16847-1	Bronze	#8 sol.-.128"	2-7 Str.-.292"	2,000	16960-S6	Bronze
1833-2	1833-3	Bronze	#8 sol.-.128"	4/0 ACSR-.563"	6,000	1833-14-S6	Steel
1833-4	1833-5	Bronze	#2 sol.-.258"	*666.6 ACSR-1.030"	5,500	1833-44-S6	Bronze
1833-22	1833-21	Bronze	4/0 ACSR-.563"	954 Str.-1.126"	5,500	1833-24-S6	Bronze
—	130428	AL	266.8 Str-.586"	1590 ACSR-1.545"	15,000	135105-1-S6	Bronze

* Can accommodate up to 795 AAC (Lilac) or max cable dia. 1.030".

Rope blocks



Figure 51. Rope block and rope assembly No.131696-1

Rope blocks are non-conductive insulating blocks. Metal parts are forged steel C-hooks with safety latches and bronze pins. Shells and sheaves are hi-dielectric insulating glass reinforced nylon. Oilite® bearing inserts allow for 4,000 pounds load.



Figure 52. Multiple sheave rope blocks No. 131800-1

Table 9. Rope Blocks

Description	Sheaves Upper	Sheaves Lower	Working Load	Catalog Number
Blocks with 150' of Dura-plex® rope	2	2	4,000 lbs.	131696CPS
	3	2	4 000 lbs.	131696-1
Blocks only (set of 2)	2	2	4,000 lbs.	131800CPS
	3	2	4,000 lbs.	131800-1

Single sheave hand line blocks



Figure 53. Block with swivel hook (left) No. 131692 and block with swivel eye (right) No. 131694CPS

Insulated blocks with same material as in two and three sheave rope blocks. Includes swivel type forged steel C-hook with safety latch or eye. Designed for 1/2" hand lines and a load capacity of 1,000 pounds.

Hand line blocks



Figure 54. Hand line block assembly No. 1802-33

Double sheave light tackle with galvanized steel shells and forged steel snap-lock hooks with spring guards. Upper block is fitted with a snubbing hook for securing fall line. Sheaves roll on Oilite® bearings. Block is supplied with one removable C-hook. Load capacity 750 pounds.

Table 10. Hand Line Blocks

Description	Working Load	Catalog Number
Block w/Swivel Hook	1,000 lbs.	131692
Block w/Swivel Eye	1,000 lbs.	131694CPS
Hand Line Block with 3/8" x 25' Dura-plex® rope	750 lbs.	1802-33
Hand Line Block with 3/8" x 60' Dura-plex® rope	750 lbs.	1802-33-60

Blocks

Blockmaster® 303 and 404 series hand line blocks

303 lightweight aluminum alloy blocks are available in two basic designs with a choice of three types of bearings; and four hooks in addition to swiveling top ring. 1,000 pounds Safe Working Load (SWL), 3 to 1 breaking point safety factor. Free running 3" diameter sheave has a line capacity of 5/8"

404 blocks have the same lightweight aluminum alloy as the 303 blocks. It is available with bronze Oilite® bearings only. 2,500 pounds Safe Working Load. All are individually tested to four times the SWL. Free running sheave has a 7/8" line capacity.

How to establish a catalog number:

The numbers after "303" or "404" will determine features of your block. Bearing code, head style and hook style are suffixes to the base number.

Example A. 303 with bronze Oilite® bearings, snatch block head, and forged steel safety sliphook: 303B2PJ.

Example B. 404 with bronze Oilite® bearings, snatch block head, with pull pin only: 404B2P.

Blockmaster® 606 series rope snatch block

Aluminum alloy blocks are provided in six-inch (606 Series) for 1" and 1 1/4" manila or synthetic rope. 606 Series is rated at 5,000 pounds Safe Working Load (SWL). All are individually tested to four times SWL.

How to establish a catalog number:

The numbers after "606" will determine features of your block. Bearing code, head style and hook style are suffixes to the "606" number.

Example A. 606 with bronze Oilite® bearing and forged steel yoke: **606B2Y**.

Example B. 606 with bronze Oilite® bearings, and forged steel safety swivel hook with pull-pin crosshead opening: **606B2P**.



Figure 55. 303B2PJ

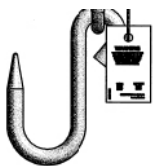


Figure 56. Steel meat hook (M)

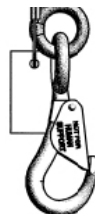


Figure 57. Klein snap hook (K)

Table 11. 303 Series and Options

Ordering Code	Description	SWL Capacity
303	Basic block with closed head swivel ring	1,000 lbs.
1. Add bearing type		
B2	Bronze Oilite® bearings (standard)	
B4	Sealed ball bearings	
2. Add for opening head. Exclude if not required.		
P	Quick opening snatch block head with pull pin	1,000 lbs.
3. Add hook type. Exclude if not required.		
J	Forged steel safety sliphook	1,000 lbs.
K	Klein-Model K443A steel snap hook	300 lbs.
M	Steel meat hook	400 lbs.



Figure 58. 404B2PJ

Table 12. 404 Series and Options

Ordering Code	Description	SWL Capacity
404	Basic block with closed head swivel ring	2,500 lbs.
1. Add bearing type		
B2	Bronze Oilite® bearings (standard)	
2. Add for opening head.		
P	Quick opening snatch block head with pull pin	2,500 lbs.
3. Add hook type. Exclude if not required.		
J	Forged steel safety sliphook	2,500 lbs.
4. Add if SS sheave required		
S	Stainless steel sheave	



Figure 59. 606B2H

Table 13. 606 Series and options

Ordering Code	Description	SWL Capacity
606	Basic 6" with heat treated aluminum alloy sheave for use with manila or synthetic rope.	
1. Add bearing type		
B2	Bronze Oilite® bearings (standard)	
B5	Timken® roller bearings with grease fittings	
2. Add for opening head and hook type		
H	Forged steel safety swivel hook with closed crosshead opening	5,000 lbs.
P	Forged steel safety swivel hook with pull pin snatch block head opening	5,000 lbs.
Y	Forged steel yoke	5,000 lbs.

Table 14. Repair parts

Block	Pull Pin Assembly	Safety Latch Kit
303	6244-1-S6	6221-S6
404	6365-S6	6351-S6
606	6533-S6	6499-S6

Wheel chock



Figure 60. Wheel chock

Wheel chocks are manufactured in high strength A356-T6 aluminum alloy. Wheel chocks are light weight plus have the strength to support the weight of a fully-loaded line truck with the chock resting on its triangular point.

Curved face design with raised ridges ensures maximum tire surface contact. Cleat teeth at rear of chock provide positive grip, non-slide contact with road surface.

Table 15. Wheel Chock

Description	Wt.	Catalog Number
9" W x 9" D x 10" H	6 lbs.	901

Rust cutter



Figure 61. Rust cutter

Rust cutter loosens rusted or corroded nuts and bolts in seconds. Packaged as 24-5 oz. cans per case. Minimum order - one case. **Catalog Number: 19229-1.**

Holding clamps

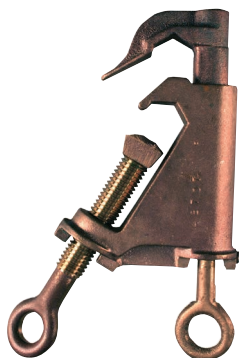


Figure 62. Holding clamps

Double clamps on this useful tool hold a jumper on a line wire for fast, easy installation of a Squeezon® compression connector. Holding Clamps assure correct spacing to fit in Squeezon connector grooves. Other applications include holding a conductor on rope blocks during cutting for deadends or splices; tying dead-ends back after tension is removed, and holding loose wires and temporary jumpers.

Available in aluminum or bronze body.

Table 16. Holding clamps

Catalog Number

Aluminum	Bronze	Conductor Size	Squeezon Die Used
3533	3533BRZ	6 sol to 4/0 ACSR	O or D
3534	3534BRZ	6 sol to 397.5 ACSR	N

Eaton
 1000 Eaton Boulevard
 Cleveland, OH 44122
 United States
 Eaton.com

Eaton's Power Systems Division
 2300 Badger Drive
 Waukesha, WI 53188
 United States
 Eaton.com/cooperpowerseries

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