

ABN 44 071 568 771 "A-Z Product Solutions for Trade and Industry"

sales@all-trades.com.au www.all-trades.com.au

INLINE AERIAL CABLE ROLLER GUIDE

DEFINITION

This in-line aerial cable roller guide is suitable on all cross arm types of intermediate poles. Features 2 x vertical steel bearing rollers and 2 x horizontal steel bearing rollers. This in-line aerial cable roller guide has a SWL of 250kg



EXTERNAL CORNER AERIAL CABLE ROLLER GUIDE

DEFINITION

External Corner Aerial Cable Roller Guide is used on metal cross arms (75mm ID)Full bearing rollers product weight is only 5.4kg









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SAGGING AERIAL CABLE ROLLER GUIDE DEFINITION

Inline Sagging Aerial Cable Roller Guide for 100mm timber cross arms features 4 x offset horizontal bearing rollers and 2 vertical bearing rollers and captive flap. 150mm timber crossarm roller also available. Unit weighs 5.6kg

CROSS ARM AERIAL CABLE

DEFINITION

Single 100mm alloy bearing roller for mounting to 100mm crossarm of any type. Supplied with padded "L" mount and ratchet strap assembly making this product a very versatile and easy to use aerial cable roller.

AERIAL STRINGING BLOCK

DEFINITION

The aerial stringing block is ideal when stringing covered conductors. Easy placement and removal of cables.











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CAPTIVE STRINGING BLOCK DEFINITION

Single Cable Blocks are available in three different sizes with 50mm, 80mm and 140mm cast aluminium rollers. The unit comes with a side release bolt which allows the side plate to pivot away from the unit for ease of capturing the cable. The unit has a top eyebolt so shackles or other devices can be attached for hanging purposes.



UNIVERSAL STRINGING BLOCK (7' SHEAVE)

DEFINITION

The most versatile aerial cable roller ever made. Lightweight but extremely rugged. Can be mounted in 5 different working positions on cross arms of any material.



SNATCH BLOCK (450KG)

DEFINITION

• Orange Fibreglass Body.

ALL TRADES

- Metal Safety Hook.
- Suits Rope to 16mm.
- Rated at 450kg







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H.V PIN INSULATOR AERIAL CABLE ROLLER DEFINITION

Our High Voltage Insulator Roller makes stringing much easier for line crews. No more shoulder strain from lifting the conductor into place. Cable is secure during and after stringing is completed. Simply rotate the Roller

90deg and the cable drops neatly into the insulator groove LR250kg Weight 5.4kg

CROSSARM BRACKET (7A)

DEFINITION

For Universal Stringing Block - Fits up to 5 3/4" & 6 1/4"

STRINGING CONTACT AERIAL CABLE ROLLER

DEFINITION

This Cable Roller is used for stringing Contact Wire by the Railways Authorities, available in Single or Double Roller versions



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CANVAS STORAGE BAG

ATM-MV40-BAG

- Storage Bag for fibreglass extension sticks
- Insulated
- Velcro Close



ELECTRICAI

HV STICK W/ UNIVERSAL SUNRISE HEAD

ATM-HVSTICK-2M-SR

- Foam filled Epoxiglass fibreglass operating pole
 - Special made approach stick for use with
- modiewark non-contact voltage tester Cut & Fitted with Universal head adaptor
 - Fitted with base cap

CROSSARM NAIL PLATE REMOVING DEVICE

ATM-CANPRD

- High tensile jetline attachment rope
- High strength magnet with hook attachment
- Nail plate removal piece attached







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LINQ 18MM KARIBINER (25KN)

DESCRIPTION

Widely used in rope-intensive activities such as climbing, tree climbers, caving, sailing, hot air ballooning, rope rescue, construction, industrial rope work, window cleaning, whitewater rescue, and acrobatics

FEATURES

- 18mm Opening Gate
- Material: Steel Alloy
- Type: Screw-Gate with indicator
- 25kN











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"RED T'S"

Class 2 Reflective Aluminium Material 2 holes 100 Pack

PILLAR SECURITY SEAL LOCK

- Aluminium wire lock
- Green colour
- AUSNET LOGO/Barcode
- Secures street pillars

SCREW SELF DRILLING T17

ATM-EZI603

- Has a special long sharp self drilling point with a flute (Type 17) that cuts the timber fibres as it is screwed in.
- Timber fibres are collected in the flute and reduces the potential for splitting.
- The self drilling type 17 point can also pierce light gauge steel up to 0.6mm without predrilling. The head is a hex flanged.
- Easy to install using a 5/16" socket for 10 and 12 gauge or 3/8" socket for 14 gauge or appropriate driver bit in a power tool.

1000 IN PACK



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NON-CONDUCTIVE TAPE MEASURE (3M)

ATM-ESZ3NGC

- 19.5mm x 3 metre
- Tested to 20kV
- Non-Conductive



20MM SADDLE (DOUBLE SIDED)

MARGS075

Galvanised construction Anti-Corrosion 100 Pack Double sided for securing items

COACH SCREW - LOW TENSILE GALV

ATM-20016234

 LOW TENSILE GALV - HEX - 130MM M16 - PER PCE







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TIGER TAILS

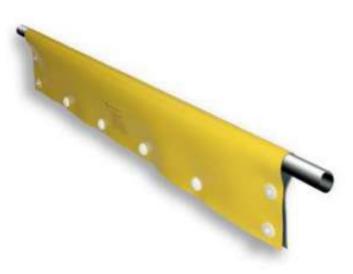
DESCRIPTION

- • Tiger Tails are available in 35mm or 45mm ID and are 2.5 metres in length. They are inter lockable and are used to cover and protect overhead power lines and service wires as well as provide high visibility.
- Made in Australia to AS4202

LINE MATS

DESCRIPTION

- Line mats are available in various drop lengths and attachment styles such as magnet pads or peg style. Standard length is 1.2 metres.
- Made in Australia to AS4202



Call Our sales department for technical and data sheets on all overhead line protection products





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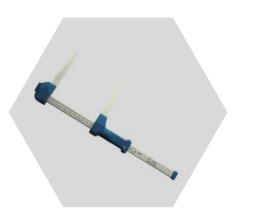
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250MM/10' SHIFTER

ATM-AT210VS

- The original adjustable wrench, made by the world-famous Crescent® brand
- Laser etched scale in both SAE and metric sizes allows easy fastener size identification
- Larger knurl provides a tighter jaw fit, is easier to adjust and is less likely to bind up





HAGLOF PRECISION CALIPERS ATM-942

Injected moulded aluminium jaws Light weight adjustable jaws Large and visible figures for long lasting use Non-reflective aluminium beam

POLE CALIPERS (600MM)

АТМ-НВРС

• Designed to provide accurate diameter measurements on poles up to 600mm. This is specifically valuable in the maintenance program for timber power poles.





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GUY WARNING GUARD TUBE

ATM-GG-P30205

- PVC Construction
- Spiral Cut for ease of installation
- Visually bright
- 2m Length
- 20 PACK



EARTH WIRE COVER GUARD

ATM-PKG-019-1.2-G

- UV stabilised material
 - Impact resistant
 - Insulation properties
- The option of fire retardant material (PKGFR
 - type)
 - In three designs, U shaped, circular fully enclosed or flared

CLOUT NAILS

ATM-N907249

- Galvanised
- High corrosion protection
- 316 Grade Stainless Steel
- Large flat head for flush fit
- 250 PACK







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CANVAS STORAGE BAG

ATM-MV40-BAG

- Storage Bag for fibreglass extension sticks
- Insulated
- Velcro Close



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HV STICK W/ UNIVERSAL SUNRISE HEAD

ATM-HVSTICK-2M-SR

- Foam filled Epoxiglass fibreglass operating pole
 - Special made approach stick for use with
- modiewark non-contact voltage tester Cut & Fitted with Universal head adaptor
 - Fitted with base cap

CROSSARM NAIL PLATE REMOVING DEVICE

ATM-CANPRD

- High tensile jetline attachment rope
- High strength magnet with hook attachment
- Nail plate removal piece attached







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INLINE SERVICE TENSIONER

ATM-ILST

The Inline Service Tensioner is predominantly used to provide tension to the overhead service cable at a desired point so termination of hardware can be carried out. Other applications may include the tensioning of short spans of overhead cable, or the lifting or lowering of tool bags or other items when performing pole top work. The standard unit is supplied with 7.5metres of rope which provides a bearing to bearing point of 2.5 metres, however we are able to supply you with any rope length required to suit your application. The unit is constructed from high quality Ronstan pulley and becket blocks and the point of attachment hooks are grade 316 stainless steel. The rope is an 11mm braided nylon response rope with a solid core which has a tensile strength of 3575kg. Each unit is supplied with a NATA test certificate and serial number to a working load limit (WLL) rating up 250kg. We can also supply the unit in a canvas draw string bag for handy and clean storage.













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SENSHIN SK202 8M FIBREGLASS MEASURING POLE

DESCRIPTION

 Perfect for obtaining measurements underneath bridges, overhangs, ceilings, vehicles, trailers, etc. This rugged, fiberglass measuring pole telescopes smoothly and measures up to 8m. Measurements are shown on the sealed, enclosed tape readout which is located on the bottom tier of the pole for easy viewing. Friction clamps ensure no-slip extension of the pole sections. The pole collapses to 1.4m and weighs less than 3kg. Includes shoulder strap and carrying case.









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ALL TRADES AUGER BITS

DESCRIPTION

Our Augers are designed to be driven by Hydraulic, mains, or battery operated impact wrenches and drills. Lengths from 225mm through to 900mm. Diameters from 10mm through to 40mm. Guaranteed to match or beat any genuine competitors written quote! Excellent customer feedback on quality, durability, and value for money.

PART NUMBER

ATM-8309 + (010-016) ATM-8318 + (016-040) ATM-8324 + (016-028)

SPECS

(10–16)mm x 225mm (16–40)mm x 457mm (16–28)mm x 610mm







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UNIQUE DUA



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CLAMP BANDIT TOOL

TRI-CTI

- For tensioning and cutting of Steel strapping
- Features crank handle along with inbuilt cutting assembly to enable band style clamps or strapping to be tensioned and cut in during installation



BOLT CUTTER 24'/600MM

TRI-HITNBC0600H

Recommended for heavy duty use

- Maximum hardness of material to be cut: Brinell 450, Rockwell C48, 162kg/mm² or 110 tonnes/square inch
- Durable jaws are forged from high tensile alloy steel that is specially heat treated and suitable for cutting hard materials

TECHNICIAN SAFETY KNIFE

TRITTKI

- Lock back blade
- Wooden Handle
- Rollover safety



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TRIANGULAR TELESCOPIC STICK

ATM-MV40M

- Eye Level reading
- Positive locking buttons, spring loaded
- 40" / 12mtrs extended
- 1.65mtr closed
- 2.7kg



TRIANGULAR FIBREGLASS HEIGHT STICK

ATM-STICK VS-12.00 HM

- Designed to provide the working distance and insulation required to perform routine jobs on overhead electrical systems.
- The unit comprises of a number of sticks that slide into each other with integrated locking buttons.
- The range is supplied with a universal alloy fitting 'universal sunrise' head, which attaches to the numerous universal tools that are available.
 - Heavily Glossed fibreglass for smooth extension

8M FIBREGLASS HEIGHT STICK

SOKSK202-8M

- Senshin SK Telescoping Measuring Pole, 1.4m to 8m, graduated in centimeters.
- This rugged, fiberglass measuring pole telescopes smoothly and measures up to 8m. Measurements are shown on the sealed, enclosed tape readout which is located on the bottom tier of the pole for easy viewing.



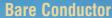


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WIRE PULLING GRIP GUIDE







Covered Conductor





Wire Rope

Guy Strand





Section Application

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BARE CONDUCTORS 1	
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WIRE ROPE (STEEL)	
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AAC	
ACSS	
ACSS/TW12-13	



CHICAGO, ILL.

A good grip-s Klein Grip makes for speed. They HOLD ON: (The 1604-20 Haven's Grip in use with 1862-30 Self Locking Tackle,

RELATED PRODUCTS14

WARNINGS:

- Grips are to be used for temporary installation, not for permanent anchorage.
- When used on or near energized lines, ground, insulate or isolate grip before pulling.
- · Do not exceed rated capacity.
- Always match proper size and type of grip to application.
- · Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



Grip Recommendation

Klein Tools offers a free service of recommending the proper grip for a particular application based on a sample of cable. All that is required is a minimum 6'-9' (2-3 meters) length of cable.

If there is ever a question about the safe condition of any grip, contact Customer Service at 847.821.5500 or 800.553.4676 or email HiSupport@kleintools.com.

BARE CONDUCTORS

Grip	Outside Diameter	Safe Load
1613-35	#6-#8 Copper	4,500 lbs. (2,041 kg)
1656-20	.20"40" (5.08 mm - 10.16 mm)	4,500 lbs. (2,041 kg)
1656-30	.31"53" (7.88 mm - 13.46 mm)	4,500 lbs. (2,041 kg)
1656-40	.53"74" (13.46 mm - 18.79 mm)	8,000 lbs. (3,629 kg)
1656-50	.74"86" (18.80 mm - 21.84 mm)	8,000 lbs. (3,629 kg)
1656-60	.86"96" (21.84 mm - 24.38 mm)	8,000 lbs. (3,629 kg)





wire without damaging or deforming the cable.

Chicago™ Grips

Authentic Chicago Grips are designed for use on aluminum, copper and ACSR.

• Locking loop handles allow the jaws to be held in an open position for easy placement on wire or cable.





1656-30

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
4,500 lbs.	(2,041 kg) Maxin	num Safe Load			
1613-35	1613-35H	NA	#6 and #8 AWG Bare Copper	4-3/16" (106 mm)	6.25 lbs. (2.8 kg)
1656-20	1656-20H	S1656-20H	.20"40" (5.08 mm - 10.16 mm)	4" (102 mm)	3.0 lbs. (1.36 kg)
1656-30	1656-30H	S1656-30H	.31"53" (7.88 mm - 13.46 mm)	4-3/4" (121 mm)	3.75 lbs. (1.70 kg)
8,000 lbs.	(3,629 kg) Maxin	num Safe Load			
1656-40	1656-40H	S1656-40H	.53"74" (13.46 mm - 18.79 mm)		
1656-50	1656-50H	S1656-50H	.74"86" (18.80 mm - 21.84 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-60	1656-60H	S1656-60H	.86"96" (21.84 mm - 24.38 mm)		

www.kleintools.com See Wire Pulling Grip Warnings on the inside cover.

1

COVERED CONDUCTORS

Grip	Outside Diameter	Safe Load
1659-20	.20"40" (5.1 mm - 10.2 mm)	4,500 lbs. (2,041 kg)
1659-30	.31"53" (7.9 mm - 13.5 mm)	4,500 lbs. (2,041 kg)
1659-40	.49"79" (12.45 mm - 20.1 mm)	8,000 lbs. (3,629 kg)
1659-50	.79" - 1.0" (20.1 mm - 25.6 mm)	8,000 lbs. (3,629 kg)



Coming in 2016 A grip specifically designed to pull spacer cable or tree wire like Hendrix[®].

Chicago[™] Grips for Covered Cable "Smiley Jaw"

- Specially machined serpentine jaws allow use on insulated conductors.
- Eliminates necessity of stripping insulation from conductor.

1659-30

Hendrix[®] is a registered trademark of Marmon Utility, LLC.

Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
4,500 lbs.	(2,041 kg) Maximum Safe Load		
1659-20	.20"42" (5.08 mm - 10.67 mm)	4-3/16" (106 mm)	3 lbs. (1.36 kg)
1659-30	.31"50" (7.87 mm - 12.70 mm)	4-3/4" (121 mm)	3.75 lbs. (1.70 kg)
8,000 lbs.	(3,629 kg) Maximum Safe Load		
1659-40	.49"79" (12.45 mm - 20.07 mm)	5-11/16" (144 mm)	7.75 lbs. (3.52 kg)
1659-50	.79" - 1.0" (20.07 mm - 25.56 mm)	J=11/10 (144 IIIII)	7.75 IDS. (0.02 Kg)

WIRE ROPE (STEEL)

Grip	Outside Diameter	Safe Load (lbs.)
1604-10	1/16" - 3/16" (1.59 mm - 4.76 mm)	2,500 lbs. (1,134 kg)
1604-20L	1/8" - 1/2" (3.18 mm - 12.70 mm	5,000 lbs. (2,268 kg)
1625-20	5/16" - 3/4" (7.94 mm - 19.05 mm	8,000 lbs. (3,629 kg)
1625-20 7/8	7/16" - 7/8" (11.11 mm - 22.23 mm)	8,000 lbs. (3,629 kg)
1625-20 1	1/2" - 1" (12.70 mm - 25.4 mm)	8,000 lbs. (3,629 kg)



Haven's™ Grips "Pork Chop"

Haven's Grips are designed for use when a light, compact grip is desired where conductor deformation is not a factor.

- Gripping pressure of the knurled jaw is applied to 1/4" (6.35 mm) cable area.
- All 1625 series have a swing latch to help hold cable in the jaw.







Cat. No.	Latch Model	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each		
2,500 lbs.	(1,134 kg) Max	timum Safe Load				
1604-10	NA	.06"25" (1.52 mm - 6.35 mm)	N/A	1 lb. (.45 kg)		
5,000 lbs.	(2,268 kg) Max	kimum Safe Load				
1604-20	1604-20L	.125"50" (3.18 mm - 12.70 mm)	N/A	2.08 lbs. (1.14 kg)		
8,000 lbs.	8,000 lbs. (3,629 kg) Maximum Safe Load					
1625-20		.28"75" (7.11 mm - 19.05 mm)		0.000		
1625-20 7/8	Latch Included	.38"88" (9.65 mm - 22.35 mm)	N/A	4 lbs. (1.81 kg)		
1625-20 1		.50" - 1.00" (12.70 mm - 25.40 mm)				

GUY STRAND & EHS (EXTRA HIGH-STRENGTH)

G	arip	Outside Diameter	Safe Load (lbs.)
1	613-40	1/8" - 5/16" (3.05 mm - 9.40 mm)	4,500 lbs. (2,041 kg)
1	684-5C	3/16" - 1/2" (4.06 - 13.97 mm)	8,000 lbs. (3,629 kg)
1	628-16	5/16" - 9/16" (7.94 mm - 14.29 mm)	15,000 lbs. (6,803 kg)
1	628-17	1/2" - 3/4" (12.70 mm - 19.05 mm)	15,000 lbs. (6,803 kg)
1	628-18	3/4" - 1" (19.05 mm - 25.4 mm)	15,000 lbs. (6,803 kg)



Coming in 2016 A grip specifically designed to pull coated guy strand larger than .50" (12,70 mm).





• Sawtooth jaw profile provides extra gripping power.

1684-5C

1628-16

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each	
4,500 lbs. (2,041	kg) Maximum Safe	Load				
1613-40	1613-40H	S1613-40H	.12"37" (3.05 mm - 9.40 mm)	4-3/16" (106 mm)	3 lbs. (1.36 kg)	
8,000 lbs. (3,629	kg) Maximum Safe	Load – EHS Spec	ific			
1684-5C	NA	NA	.160"550" (4.06 - 13.97 mm)	5" (127 mm)	6.25 lbs. (2.84 kg)	
15,000 lbs. (6,803	15,000 lbs. (6,803 kg) Maximum Safe Load					
1628-16			.31"62" (7.87 mm - 15.75 mm)		15.30 lbs. (7.00 kg)	
1628-17	NA	NA	.50"75" (12.70 mm - 19.05 mm)	7-1/4" (184 mm)	16.30 lbs. (7.40 kg)	
1628-18			.75" - 1.00" (19.05 mm - 25.40 mm)		15.70 lbs. (7.10 kg)	

KT4502 • <th></th> <th>.16"90" (4.00 mm - 23.0 mm)</th> <th>5,000 (2,268 kg)</th> <th>)</th> <th><u>alli</u></th> <th></th> <th></th>		.16"90" (4.00 mm - 23.0 mm)	5,000 (2,268 kg))	<u>alli</u>		
(17.8 mm - 31.8 mm) 12,000 (5,443 kg) Latch helps maintain cable position. Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks. KT45 Designed for use on bare conductor cables. Exercise of the second cable of the second cable. Image: the second cable of the second cabl	KT4600		10,000 (4,536 kg	J)	///////		
Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks. Designed for use on bare conductor cables.	KT4800		12,000 (5,443 kg) 🧹			\bigcirc
Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks. Designed for use on bare conductor cables. Designed for use on bare conductor cables. View of the second seco				_	31	T	
Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks. Designed for use on bare conductor cables. Designed for use on bare conductor cables. Jack No. Min. to Max. Cable Kitabolic Kitabolic Jack No. Min. to Max. Cable Billion Cables. Kitabolic Spring Locking Handle Jaw Approx. Kitabolic Kitabolic 180° - 600° (4.57 mm - 15.2 mm) Tabolic 1.60° - 9.00° (4.00 mm - 23.0 mm) Color Ubs. (4,538 kg) Maximum Safe Load Tabolic 1.60° - 9.00° (7.82 mm - 20.3 mm) Color Ubs. (4,538 kg) Maximum Safe Load Tabolic 1.60° - 9.00° (7.82 mm - 20.3 mm)	l atch he	Ins maintain cable position					1/74500
Incoks on hoists, winches and tackle blocks. Designed for use on bare conductor cables. Unit of the second sec							K14500
Designed for use on bare conductor cables. Image: Cable of the cable			ks.		-		
Min. to Max. Cable Hot Spring Cocking August Approx. at. No. Min. to Max. Cable Hot Spring Cocking August Approx. at. No. Min. to Max. Cable Hot Spring Cocking August Approx. 000 Isource Isource Isource Isource Approx. 14501 180° - 600' (4.57 mm - 15.2 mm) Isource Isource 4' (101.3 mm) 3.75 lbs. (1.70) 14552 1.60° - 900' (4.00 mm - 23.0 mm) Isource Isource 4' (101.3 mm) 3.75 lbs. (1.70) 14552 1.60° - 900' (4.00 mm - 23.0 mm) Isource Isource 4' (101.3 mm) 3.75 lbs. (1.70) 14552 1.60° - 900' (4.00 mm - 23.0 mm) Isource Isource 4' (101.3 mm) 3.75 lbs. (1.70) 14552 1.60° - 900' (4.00 mm - 23.0 mm) Isource Isource 4' (101.3 mm) 3.75 lbs. (1.70) 14552 1.60° - 900' (4.00 mm - 23.0 mm) Isource Isource Isource Isource Isource Isource Isource Isou							W.
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At. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 4,000 lbs. (2,268 kg) Maximum Safe Load							
KT4650 KT4650 iat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load •						1	
KT4650 KT4650 Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
KT4650 KT4650 iat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load •							
KT4650 KT4650 iat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load •							Sant
KT4650 KT4650 iat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load •							
Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load • <							
Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load • <				10	1	-	-
KT4650 KT4650 Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • <td>01</td> <td>a</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>	01	a		-			
Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load •	01	8		-		3	~
Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load •	01	8					0
KT4650 KT4650 Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • • • • • • 6,000 lbs. (2,268 kg) Maximum Safe Load • <td>01</td> <td>8</td> <td></td> <td></td> <td></td> <td>S.</td> <td>C</td>	01	8				S.	C
Cat. No. Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load •	0.	8	\bigcirc	Sol 1			C
Min. to Max. Cable Diameter inches (mm) Hot Latch Spring Locking Handle Jaw Length Approx. Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load •	0	0		A NO			C
Diameter inches (mm) Latch Handle Length Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load (11.3 mm) 3.75 lbs. (1.70 (14500 .180"600" (4.57 mm - 15.2 mm) • • 4" (101.3 mm) 3.75 lbs. (1.70 (14502 .160"900" (4.00 mm - 23.0 mm) • • 4-1/2" (114 mm) 4.90 lbs. (2.22 10,000 lbs. (4,536 kg) Maximum Safe Load • • • • • (14600 .300"800" (7.62 mm - 20.3 mm) • • 5" (127 mm) 7 lbs. (3.18 kg)	-		CO KT4502	A NO			C
Diameter inches (mm) Latch Handle Length Weight Each 5,000 lbs. (2,268 kg) Maximum Safe Load	-		СОО КТ4502	A HO		KT4	1650
Diameter inches (mm) Latch Handle Length Weight Each 6,000 lbs. (2,268 kg) Maximum Safe Load .180"600" (4.57 mm - 15.2 mm) • • 4" (101.3 mm) 3.75 lbs. (1.70 T4500 .180"600" (4.57 mm - 15.2 mm) • • 4" (101.3 mm) 3.75 lbs. (1.70 T4502 .160"900" (4.00 mm - 23.0 mm) • • 4-1/2" (114 mm) 4.90 lbs. (2.22 0,000 lbs. (4,536 kg) Maximum Safe Load • • • • • T4600 .300"800" (7.62 mm - 20.3 mm) • • 5" (127 mm) 7 lbs. (3.18 k	0		СОО КТ4502	A INS		KT4	4650
Diameter inches (mm) Latch Handle Length Weight Each i,000 lbs. (2,268 kg) Maximum Safe Load T4500 4" (101.3 mm) 3.75 lbs. (1.70 T4501 .180"600" (4.57 mm - 15.2 mm) • • 4" (101.3 mm) 3.75 lbs. (1.70 T4502 • • • • 4.1/2" (114 mm) 4.90 lbs. (2.22 T4650 .160"900" (4.00 mm - 23.0 mm) • • • 4.1/2" (114 mm) 4.90 lbs. (2.22 0,000 lbs. (4,536 kg) Maximum Safe Load •	0		СОО КТ4502	A NO		KT4	4650
T4500 .180"600" (4.57 mm - 15.2 mm) T4501 .180"600" (4.57 mm - 15.2 mm) T4502 .160"900" (4.00 mm - 23.0 mm) .160"900" (4.00 mm - 23.0 mm) .160"900" (4.00 mm - 23.0 mm) .160"900" (4.00 mm - 23.0 mm) .160"900" (4.00 mm - 23.0 mm) .1600 .160"900" (7.62 mm - 20.3 mm) .1601 .300"800" (7.62 mm - 20.3 mm)	cat. No.	Win. to Max. Cable	Hot	Spring	Locking	Jaw	
T4501 .180"600" (4.57 mm - 15.2 mm) .180"600" (4.57 mm - 15.2 mm) .160"900" (4.00 mm - 23.0 mm) .160"900" (7.62 mm - 20.3 mm)		Diameter inches (mn	Hot n) Latch	Spring	Locking Handle	Jaw	
T4502 • <td>i,000 lbs.</td> <td>Diameter inches (mn</td> <td>Hot n) Latch</td> <td>Spring</td> <td>Locking Handle</td> <td>Jaw</td> <td></td>	i,000 lbs.	Diameter inches (mn	Hot n) Latch	Spring	Locking Handle	Jaw	
T4650 .160"900" (4.00 mm - 23.0 mm) • 4-1/2" (114 mm) 4.90 lbs. (2.22 Image: Dystant Control of the system of	i,000 lbs. T4500	Diameter inches (mn (2,268 kg) Maximum Safe Loa	n) Hot d	•	Handle	Jaw Length	Approx. Weight Each
(T4652 .100300 (4.00 mm - 23.0 mm) 10,000 lbs. (4,536 kg) Maximum Safe Load (T4600 (T4601 .300"800" (7.62 mm - 20.3 mm)	5,000 lbs. (T4500 (T4501	Diameter inches (mn (2,268 kg) Maximum Safe Loa	n) Hot Latch d 5.2 mm) •	•	Handle	Jaw Length	
ID,000 lbs. (4,536 kg) Maximum Safe Load (T4600 (T4601 .300"800" (7.62 mm - 20.3 mm) • • • 5" (127 mm) • 7 lbs. (3.18 k	5,000 lbs. (T4500 (T4501 (T4502	Diameter inches (mn (2,268 kg) Maximum Safe Loa	n) Hot Latch d 5.2 mm) •	•	Handle	Jaw Length	Approx. Weight Each
T4600 • • 5" (127 mm) 7 lbs. (3.18 km/s) T4601 .300"800" (7.62 mm - 20.3 mm) • • 5" (127 mm) 7 lbs. (3.18 km/s)	5,000 lbs. T4500 T4501 T4502 T4650	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15	n) Hot Latch d 5.2 mm) • •	•	Handle	Jaw Length 4" (101.3 mm)	Approx. Weight Each
T4601 .300"800" (7.62 mm - 20.3 mm) • • 5" (127 mm) 7 lbs. (3.18 k	5,000 lbs. T4500 T4501 T4502 T4650 T4652	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 25	n) Hot Latch d 5.2 mm) • • 3.0 mm) •	•	Handle	Jaw Length 4" (101.3 mm)	Approx. Weight Each
	5,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 25	n) Hot Latch d 5.2 mm) • • 3.0 mm) •	•	Handle	Jaw Length 4" (101.3 mm)	Approx. Weight Each
T/602	5,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs T4600	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad	•	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm)	Approx. Weight Each
	5,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs T4600 T4601	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad	•	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm)	Approx. Weight Each
	a,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs T4600 T4601 T4602	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180°600° (4.57 mm - 15 .160°900° (4.00 mm - 23 .160°900° (4.00 mm - 23 .160°900° (7.62 mm - 20	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad 0.3 mm) • •	•	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm)	Approx. Weight Each
	i,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs T4600 T4601 T4602 2,000 lbs	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad 0.3 mm) • •	• • •	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm)	Approx. Weight Each
T4800	i,000 lbs. T4500 T4501 T4502 T4650 T4652 0,000 lbs T4601 T4601 T4602 2,000 lbs T4800	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23 .160"900" (7.62 mm - 20 .300"800" (7.62 mm - 20 .15,443 kg) Maximum Safe Lo	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad 0.3 mm) • ad ad	• • • •	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm) 5" (127 mm)	Approx. Weight Each 3.75 lbs. (1.70 kg 4.90 lbs. (2.22 kg 7 lbs. (3.18 kg)
	5,000 lbs. KT4500 KT4502 KT4650 KT4652 10,000 lbs KT4601 KT4602 12,000 lbs	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180°600° (4.57 mm - 15 .160°900° (4.00 mm - 23 .160°900° (4.00 mm - 23 .160°900° (7.62 mm - 20	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad 0.3 mm) • •	• • •	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm)	Approx. Weight Each 3.75 lbs. (1.70 k 4.90 lbs. (2.22 k
(T4800	5,000 lbs. (T4500 (T4502 (T4650 (T4652 10,000 lbs (T4601 (T4602 12,000 lbs (T4800	Diameter inches (mm (2,268 kg) Maximum Safe Loa .180"600" (4.57 mm - 15 .160"900" (4.00 mm - 23 .160"900" (4.00 mm - 23 .160"900" (7.62 mm - 20 .300"800" (7.62 mm - 20 .15,443 kg) Maximum Safe Lo	n) Hot Latch d 5.2 mm) • 3.0 mm) • ad 0.3 mm) • ad ad	• • • •	Handle	Jaw Length 4" (101.3 mm) 4-1/2" (114 mm) 5" (127 mm)	Approx. Weight Each

WIDE RANGE GRIPS

Safe Load (lbs.)

5,000 (2,268 kg)

Outside Diameter

(4.57 mm - 15.2 mm)

.18" - .60"

Grip

KT4500

All dimensions are in inches (millimeters).

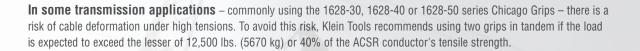
ACSR (Aluminum Conductor Steel Reinforced)

	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Grip	Safe Load
605 MCM	.966" (24.54 mm)	26x7	Squab	1628-30P	
605 MCM	.994" (25.25 mm)	30x7	Wood Duck	1628-30P	
605 MCM	.994" (25.25 mm)	30x19	Teal	1628-30P	
636 MCM	.940" (23.88 mm)	18x1	Kingbird	1628-300	
636 MCM	.977" (24.82 mm)	24x7	Rook	1628-30P	
36 MCM	.991" (25.17 mm)	26x7	Grosbeak	1628-30P	
36 MCM	1.019" (25.88 mm)	30x7	Scoter	1628-30R	
636 MCM	1.019" (25.88 mm)	30x19	Egret	1628-30R	-
66.6 MCM	1.000" (25.40 mm)	24x7	Flamingo	1628-30P	-
66.6 MCM	1.014" (25.76 mm)	26x7	Gannet	1628-30P	
'15.5 MCM	1.051" (26.70 mm)	26x7	Starling	1628-30R	
'15.5 MCM	1.081" (27.46 mm)	30x19	Redwing	1628-30S	S
95 MCM	1.040" (26.42 mm)	36x1	Coot	1628-30R	
795 MCM	1.063" (27.00 mm)	45x7	Tern	1628-30R	20,000 lbs. (9,072 kg)
'95 MCM	1.092" (27.74 mm)	54x7	Condor	1628-30S	0
'95 MCM	1.092" (27.74 mm)	24x7	Cuckoo	1628-30S	0,0
95 MCM	1.107" (28.12 mm)	26x7	Drake	1628-30S	0
'95 MCM	1.140" (28.96 mm)	30x19	Mallard	1628-30S	N
00 MCM	1.131" (28.73 mm)	45x7	Ruddy	1628-305	
000 MCM	1.162" (29.52 mm)	54x7	Canary	1628-30T	
54 MCM	1.165" (29.59 mm)	45x7	Rail	1628-30T	
54 MCM	1.165" (29.59 mm)	20x7	Corncrake	1628-30T	
54 MCM	1.175" (29.85 mm)	48x7	Towhee	1628-30T	
54 MCM	1.196" (30.38 mm)	54x7	Cardinal	1628-30T	-
54 MCM	1.196" (30.38 mm)	24x7	Redbird	1628-30T	
033.5 MCM	1.212" (30.79 mm)	45x7	Ortolan	1628-30U	
033.5 MCM	1.245" (31.62 mm)	54x7	Curlew	1628-30U	-
113 MCM	1.258" (31.95 mm)	45x7	Bluejay	1628-30U	-
113 MCM	1.292" (32.82 mm)	54x19	Finch	1628-40W	
192.5 MCM	1.302" (33.07 mm)	45x7	Bunting	1628-40W	-
192.5 MCM	1.337" (33.96 mm)	54x19	Grackle	1628-40X	
272 MCM	1.317" (33.45 mm)	36x1	Skylark	1628-40X	
272 MCM	1.345" (34.16 mm)	45x7	Bittern	1628-40W	
272 MCM	1.381" (35.08 mm)	54x19	Pheasant	1628-40X	
351.5 MCM	1.386" (35.20 mm)	45x7	Dipper	1628-40X	s _
351.5 MCM	1.424" (36.17 mm)	54x19	Martin	1628-40X	Ibs kg)
431 MCM	1.427" (36.25 mm)	45x7	Bobolink	1628-40Y	25,000 (11,340 k
431 MCM	1.465" (37.21 mm)	54x19	Plover	1628-40T	34
590 MCM	1.504" (38.20 mm)	45x7	Lapwing	1628-40Z	0
590 MCM		54x19	Falcon	1628-402 1628-40A	
	1.544" (39.22 mm)				3ï
780 MCM	1.602" (40.70 mm)	84x19	Chukar	1628-50B	
2034.5 MCM	1.681" (42.70 mm)	72x7	Mockingbird	1628-500	
2156 MCM	1.762" (44.75 mm)	84x19	Bluebird	1628-50D	
2167 MCM	1.735" (44.07 mm)	72x7	Kiwi	1628-50D	/
2312 MCM	1.802" (45.77 mm)	76x19	Thrasher	1628-50E	
2515 MCM	1.880" (47.75 mm)	76x19	Joree	1628-50F	X

ACSR TRANSMISSION CABLES

Chicago™ Grips 1628 Series

• Round jaws are shaped to provide maximum contact with the cable, virtually eliminating cable deformation.





These grips are special order only. Application must be confirmed prior to ordering. Allow 30 days for delivery.

Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each				
20,000 lbs.	20,000 lbs. (9,072 kg) Maximum Safe Load						
1628-30P	.95" - 1.02" (24.23 mm - 25.78 mm)						
1628-30R	1.02" - 1.08" (25.81 mm - 27.38 mm)	10.0/4	07.11				
1628-30S	1.08" - 1.14" (27.41 mm - 28.96 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)				
1628-30T	1.14" - 1.20" (28.98 mm -30.56 mm)	((
1628-30U	1.21" - 1.26" (30.59 mm - 32.13 mm)						
25,000 lbs.	(11,340 kg) Maximum Safe Load						
1628-40W	1.27" - 1.33" (32.16 mm - 33.73 mm)						
1628-40X	1.33" - 1.39" (33.76 mm - 35.30 mm)	10-3/4"	34 lbs.				
1628-40Y	1.39" - 1.45" (35.33 mm - 36.91 mm)	(273 mm)	(15.45 kg)				
1628-40Z	1.45" - 1.52" (36.93 mm - 38.48 mm)						
25,000 lbs.	(11,340 kg) Maximum Safe Load with	ı bolt on jaw					
1628-50A	1.52" - 1.58" (38.51 mm - 40.08 mm)		XX				
1628-50B	1.58" - 1.64" (40.11 mm - 41.66 mm)						
1628-50C	1.64" - 1.70" (41.68 mm - 43.26 mm)	10-3/4"	34 lbs.				
1628-50D	1.70" - 1.77" (43.28 mm - 44.83 mm)	(273 mm)	(15.45 kg)				
1628-50E	1.77" - 1.83" (44.86 mm - 46.43 mm)						
1628-50F	1.83" - 1.89" (46.46 mm - 48.00 mm)						



 1628-50 equipped with removable bolt on floating jaw, secured by a slotted nut and cotter pin. Jaw provides increased cable coverage.

Note: Jaw must be removed to insert cable for model 1628-50.

AAC (All Aluminum Conductor)

AWG or MCM Size	Diameter inches (mm)	No. of Alum. Strands	Code Word	Grip	Safe Load
700 MCM	.963" (24.46 mm)	37	Verbena	1628-30P	
700 MCM	.964" (24.49 mm)	61	Flag	1628-30P	
715.5 MCM	.973" (24.71 mm)	37	Violet	1628-30P	
715.5 MCM	.975" (24.77 mm)	61	Nasturtium	1628-30P	
750 MCM	.998" (25.35 mm)	61	Cattail	1628-30P	
750 MCM	.997" (25.32 mm)	37	Petunia	1628-30P	
795 MCM	1.026" (26.06 mm)	37	Arbutus	1628-30R	S
795 MCM	1.027" (26.09 mm)	61	Lilac	1628-30R	b
800 MCM	1.029" (26.14 mm)	37	Fuschia	1628-30R	
800 MCM	1.031" (26.19 mm)	61	Heliotrope	1628-30R	20
874.5 MCM	1.076" (27.37 mm)	37	Anemone	1628-30R	20,000 lbs. (9,072 kg)
874.5 MCM	/1.077" (27.36 mm)	61	Crocus	1628-30R	6)
900 MCM	1.092" (27.74 mm)	37	Cockscomb	1628-30S	
954 MCM	1.124" (28.55 mm)	37	Magnolia	1628-30S	
954 MCM	1.125" (28.58 mm)	/61	Goldenrod	1628-30S	
1000 MCM	1.151" (29.24 mm)	37	Hawkweed	1628-30T	
1000 MCM	1.152" (29.26 mm)	61	Camellia	1628-30T	
1033.5 MCM	1.170" (29.72 mm)	37	Bluebell	1628-30T	
1033.5 MCM	1.171" (29.74 mm)	61	Larkspur	1628-30T	
1113 MCM	1.216" (30.89 mm)	61	Marigold	1628-40U	
1192.5 MCM	1.258" (31.95 mm)	61	Hawthorn	1628-40U	_
1272.MCM	1.300" (33.02 mm)	61	Narcissus	1628-40W	S _
1351,5 MCM	1.340" (34.04 mm)	61	Columbine	1628-40X	kg)
1431 MCM	1.378" (35.00 mm)	61	Carnation	1628-40X	
1510.5 MCM	1.416" (35.97 mm)	61	Gladiolus	1628-40Y	5,000 (11,340
1590 MCM	1.453" (36.91 mm)	61	Coreopsis	1628-40Z	D c.
1750 MCM	1.524" (38.71 mm)	61	Jessamine	1628-40A	
2000 MCM	1.631" (41.43 mm)	91	Cowslip	1628-50B	52
2250 MCM	1.729" (43.92 mm)	91	Sagebrush	1628-50D	
2500 MCM	/1.823" (46.30 mm)	91	Lupine	1628-50E	

AAC TRANSMISSION CABLES

Chicago™ Grips 1628 Series

• Round jaws are shaped to provide maximum contact with the cable, virtually eliminating cable deformation.

In some transmission applications – commonly using the 1628-30, 1628-40 or **1628-50 series** Chicago Grips – there is a risk of cable deformation under high tensions. To avoid this risk, Klein Tools recommends using two grips in tandem if the load is expected to exceed the lesser of 12,500 lbs. (5,670 kg) or 40% of the AAC conductor's tensile strength.



These grips are special order only. Application must be confirmed prior to ordering. Allow 30 days for delivery.

Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each	
20,000 lbs.	(9,072 kg) Maximum Safe Load			
1628-30P	.95" - 1.02" (24.23 mm - 25.78 mm)	AAA		
1628-30R	1.02" - 1.08" (25.81 mm - 27.38 mm)			
1628-30S	1.08" - 1.14" (27.41 mm - 28.96 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)	
1628-30T	1.14" - 1.20" (28.98 mm -30.56 mm)	(2.0 mm)	(12.27 kg)	
1628-30U	1.21" - 1.26" (30.59 mm - 32.13 mm)	XXV		
25,000 lbs.	(11,340 kg) Maximum Safe Load			
1628-40U	1.20" - 1.27" (30.58 mm - 32.13 mm)			
1628-40W	1.27" - 1.33" (32.16 mm - 33.73 mm)			
1628-40X	1.33" - 1.39" (33.76 mm - 35.30 mm)	10-3/4"	34 lbs. (15.45 kg)	
1628-40Y	1.39" - 1.45" (35.33 mm - 36.91 mm)	(273 mm)		
1628-40Z	1.45" - 1.52" (36.93 mm - 38.48 mm)			
1628-40A	1.52" - 1.58" (38.51 mm - 40.08 mm)			
25,000 lbs.	(11,340 kg) Maximum Safe Load with	bolt on jaw		
1628-50B	1.58" - 1.64" (40.11 mm - 41.66 mm)	40.0/4	0.4 !!	
1628-50D	1.70" - 1.77" (43.28 mm - 44.83 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)	
1628-50E	1.77" - 1.83" (44.86 mm - 46.43 mm)	(=: •)	(



• 1628-50 equipped with removable bolt on floating jaw, secured by a slotted nut and cotter pin. Jaw provides increased cable coverage.

Note: Jaw must be removed to insert cable for model 1628-50.

9

ACSS (Aluminum Conductor Steel Supported)

					• •
AWG or MCM Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Grip	Safe Load
266.8 MCM	.642" (16.31 mm)	26x7	Partridge/ACSS	1656-40*	
266.8 MCM	.660" (16.76 mm)	30x7	Junco/ACSS	1656-40*	
300 MCM	.680" (17.27 mm)	26x7	Ostrich/ACSS	1656-40*	
336.4 MCM	.720" (18.29 mm)	26x7	Linnet/ACSS	1656-40*	
336.4 MCM	.741" (18.82 mm)	30x7	Oriole/ACSS	1656-50*	S (
397.5 MCM	.772" (19.61 mm)	24x7	Brant/ACSS	1656-50*	kg
397.5 MCM	.783" (19.89 mm)	26x7	Ibis/ACSS	1656-50*	
397.5 MCM	.806" (20.47 mm)	30x7	Lark/ACSS	1656-50*	0000
477 MCM	.846" (21.49 mm)	24x7	Flicker/ACSS	1656-50*	, ,000 (3,629
477 MCM	.858" (21.79 mm)	26x7	Hawk/ACSS	1656-50*	So C
477 MCM	.883" (22.43 mm)	30x7	Hen/ACSS	1656-60*	°,
556.5 MCM	.914" (23.22 mm)	24x7	Parakeet/ACSS	1656-60*	
556.5 MCM	.927" (23.55 mm)	26x7	Dove/ACSS	1656-60*	
556.5 MCM	.953" (24.21 mm)	30x7	Eagle/ACSS	1656-60*	
605 MCM	.953" (24.21 mm)	24x7	Peacock/ACSS	1656-60*	
605 MCM	.994" (25.25 mm)	30x7	Wood Duck/ACSS	1628-50P	
605 MCM	.994" (25.25 mm)	30x19	Teal/ACSS	1628-50P	
636 MCM	.977" (24.82 mm)	24x7	Rook/ACSS	1628-50P	
636 MCM	.991" (25.17 mm)	26x7	Grosbeak/ACSS	1628-50P	
636 MCM	1.019" (25.88 mm)	30x19	Egret/ACSS	1628-50R	
636 MCM	1.019" (25.88 mm)	30x7	Scoter/ACSS	1628-50R	
666.6 MCM	1.000" (25.40 mm)	24x7	Flamingo/ACSS	1628-50P	
666.6 MCM	1.014" (25.76 mm)	26x7	Gannet/ACSS	1628-50P	
715.5 MCM	1.051" (26.70 mm)	26x7	Starling/ACSS	1628-50R	
715.5 MCM	1.081" (27.46 mm)	30x19	Redwing/ACSS	1628-50S	
795 MCM	1.063" (27.00 mm)	45x7	Tern/ACSS	1628-50R	
795 MCM	1.092" (27.74 mm)	24x7	Cuckoo/ACSS	1628-50S	
795 MCM	1.092" (27.74 mm)	54x7	Condor/ACSS	1628-50S	
795 MCM	1.107" (28.12 mm)	26x7	Drake/ACSS	1628-50S	
795 MCM	1.139" (28.93 mm)	30x19	Mallard/ACSS	1628-50S	
900 MCM	1.131" (28.73 mm)	45x7	Ruddy/ACSS	1628-50S	
900 MCM	1.162" (29.52 mm)	54x7	Canary/ACSS	1628-50T	
954 MCM	1.165" (29.59 mm)	20x7	Corncrake/ACSS	1628-50T	
954 MCM	1.165" (29.59 mm)	45x7	Rail/ACSS	1628-50T	Ibs kg)
954 MCM	1.175" (29.85 mm)	48x7	Towhee/ACSS	1628-50T	
954 MCM	1.196" (30.38 mm)	54x7	Cardinal/ACSS	1628-50T	
954 MCM	1.196" (30.38 mm)	24x7	Redbird/ACSS	1628-50T	000 ,340
954 MCM	1.248" (31.70 mm)	30x19	Canvasback/ACSS	1628-50U	00
1033.5 MCM	1.212" (30.79 mm)	45x7	Ortolan/ACSS	1628-50U	
1033.5 MCM	1.245" (31.62 mm)	54x7	Curlew/ACSS	1628-50U	.
1113 MCM	1.258" (31.95 mm)	45x7	Bluejay/ACSS	1628-50U	2
1113 MCM	1.292" (32.82 mm)	54x19	Finch/ACSS	1628-50W	
1192.5 MCM	1.302" (33.07 mm)	45x7	Bunting/ACSS	1628-50W	
1192.5 MCM	1.337" (33.99 mm)	54x19	Grackle/ACSS	1628-50X	
1272 MCM	1.345" (34.16 mm)	45x7	Bittern/ACSS	1628-50X	
1272 MCM	1.381" (35.08 mm)	54x19	Pheasant/ACSS	1628-50X	
1351 MCM	1.386" (35.21 mm)	45x7	Dipper/ACSS	1628-50X	
1351 MCM	1.424" (36.17 mm)	54x19	Martin/ACSS	1628-50Y	
1431 MCM	1.427" (36.25 mm)	45x7	Bobolink/ACSS	1628-50Y	
1431 MCM	1.465" (37.21 mm)	54x19	Plover/ACSS	1628-50Z	
1590 MCM	1.504" (38.20 mm)	45x7	Lapwing/ACSS	1628-50Z	
1590 MCM	1.544" (39.22 mm)	54x19	Falcon/ACSS	1628-50A	
1780 MCM	1.601" (40.67 mm)	84x19	Chukar/ACSS	1628-50B	
2034.5 MCM	1.681" (42.70 mm)	72x7	Mockingbird/ACSS	1628-500	
2167 MCM	1.735" (44.12 mm)	72x7	Kiwi/ACSS	1628-50D	
		04.40	Dluchird/ACCC	1600 EOD	
2156 MCM	1.762" (44.76 mm)	84x19	Bluebird/ACSS	1628-50D	
2312 MCM 2515 MCM	1.762" (44.76 mm) 1.802" (45.77 mm) 1.880" (47.75 mm)	76x19 76x19 76x19	Thrasher/ACSS Joree/ACSS	1628-50E 1628-50F	

*Must use two of recommended grips in tandem. See grip use instructions on pages 16-17.

ACSS TRANSMISSION CABLES

Chicago™ Grips 1628 Series

• Round jaws are shaped to provide maximum contact with the cable, virtually eliminating cable deformation.

Best Practices for ACSS Conductors

- Larger than 0.953" outside diameter (approximately 600 MCM) - Use the 1628-50 or 1628-40 series Chicago Grips. The necessary grip size should be determined based on the cable outside diameter. For applications where the load is expected to exceed 10,000 lbs. (4,536 kg), use two of the appropriate grips in tandem to prevent cable deformation. See instructions for using two grips in tandem on page 17.
- 2. Smaller than 0.953" outside diameter (approximately 600 MCM) Use two of the appropriate 1656 series Chicago Grips in tandem. The necessary grip size should be determined based on the cable outside diameter. See instructions for using two grips in tandem on page 17.
- 3. For grip recommendations, contact us at hisupport@kleintools.com.

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
8,000 lbs	s. (3,629 kg)	Maximum Safe L	oad		
1656-40	1656-40H	S1656-40H	.53"74" (13.46 mm - 18.79 mm)	E 4 (0)	0.00 //
1656-50	1656-50H	S1656-50H	.74"86" (18.80 mm - 21.84 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-60	1656-60H	S1656-60H	.86"96" (21.84 mm - 24.38 mm)		(0.70 kg)
25,000 II	bs. (11,340 k	(g) Maximum Safe	e Load with bolt on jaw		
1628-50P*			.95" - 1.02" (24.23 mm - 25.78 mm)		
1628-50R*			1.02" - 1.08" (25.81 mm -27.38 mm)		-
1628-50S*			1.08" - 1.14" (27.41 mm - 28.96 mm)		
1628-50T*			1.14" - 1.20" (28.99 mm - 30.55 mm)		
1628-50U*			1.20" - 1.27" (30.58 mm - 32.13 mm)		
1628-50W*			1.27" - 1.33" (32.16 mm - 33.73 mm)	≥ 1	
1628-50X*			1.33" - 1.39" (33.76 mm - 35.30 mm)	10-3/4"	04.16.
1628-50Y*	NA	NA	1.39" - 1.45" (35.33 mm - 36.91 mm)	(273 mm)	34 lbs. (15.45 kg)
1628-50Z*	-		1.45" - 1.52" (36.93 mm - 38.48 mm)		(
1628-50A*	-		1.52" - 1.58" (38.51 mm - 40.08 mm)		
1628-50B*	-		1.58" - 1.64" (40.11 mm - 41.66 mm)		
1628-50C*	-	-	1.64" - 1.70" (41.68 mm - 43.26 mm)		
1628-50D*			1.70" - 1.77" (43.28 mm - 44.83 mm)		
1628-50E*			1.77" - 1.83" (44.86 mm - 46.43 mm)	1	17
1628-50F*	-			1	
1628-50F*			1.83" - 1.89" (46.46 mm - 48.00 mm)		1

*These grips are special order only. Application must be confirmed prior to ordering. Allow 30 days for delivery.

1628-40

1628-50



 1628-50 equipped with removable bolt on floating jaw, secured by a slotted nut and cotter pin. Jaw provides increased cable coverage.

Note: Jaw must be removed to insert cable for model 1628-50.

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ACSS/TW (Trapezoidal Wire)

AWG or MCM Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Grip	Safe Load
266.8 MCM	.595" (15.11 mm)	14x7	Partridge/ACSS/TW	1656-40*	
336.4 MCM	.667" (16.94 mm)	16x7	Linnet/ACSS/TW	1656-40*]
336.4 MCM	.692" (17.58 mm)	16x7	Oriole/ACSS/TW	1656-40*	S —
477 MCM	.776" (19.71 mm)	18x7	Flicker/ACSS/TW	1656-50*	kg)
477 MCM	.798" (20.27 mm)	18x7	Hawk/ACSS/TW	1656-50*	
477 MCM	.820" (20.83 mm)	20x7	Hen/ACSS/TW	1656-50*	,000 (3,629
556.5 MCM	.835" (21.21 mm)	18x7	Parakeet/ACSS/TW	1656-50*	0.0
556.5 MCM	.850" (21.59 mm)	20x7	Dove/ACSS/TW	1656-50*	
636 MCM	.893" (22.68 mm)	20x7	Rook/ACSS/TW	1656-60*	∞
636 MCM	.909" (23.09 mm)	20x7	Grosbeak/ACSS/TW	1656-60*	
636 MCM	.942" (23.93 mm)	22x7	Scoter/ACSS/TW	1656-60*	
762.8 MCM	.990" (25.15 mm)	17x7	Wabash/ACSS/TW	1628-50P	
768.2 MCM	.960" (24.38 mm)	17x7	Tern/ACSS/TW	1628-50P	
795 MCM	.980" (24.89 mm)	18x7	Puffin/ACSS/TW	1628-50P	
795 MCM	.993" (25.22 mm)	20x7	Condor/ACSS/TW	1628-50P	
795 MCM	1.010" (25.65 mm)	20x7	Drake/ACSS/TW	1628-50P	
795 MCM	1.055" (26.80 mm)	20x7	Canary/ACSS/TW	1628-50P	-
900 MCM	1.044" (26.52 mm)	30x7	Phoenix/ACSS/TW	1628-50R	Ī
954 MCM	1.061" (26.95 mm)	32x7	Rail/ACSS/TW	1628-50R	
954 MCM	1.080" (27.43 mm)	20x7	Cardinal/ACSS/TW	1628-50R	
954 MCM	1.089" (27.66 mm)	30x7	Snowbird/ACSS/TW	1628-50S	
1033.5 MCM	1.102" (27.99 mm)	32x7	Ortolan/ACSS/TW	1628-50S	
1033.5 MCM	1.132" (28.75 mm)	22x7	Curlew/ACSS/TW	1628-50S	
1033.5 MCM	1.129" (28.68 mm)	30x7	Avocet/ACSS/TW	1628-50S	
11/13 MCM	1.143" (29.03 mm)	33x7	Bluejay/ACSS/TW	1628-50S	-
1113 MCM	1.145" (20.10 mm)	38x19	Finch/ACSS/TW	1628-50T	1
1113 MCM	1.170" (29.72 mm)	30x7	Oxbird/ACSS/TW	1628-50T	-
1192.5 MCM	1.170 (29.72 mm)	30x7	Bunting/ACSS/TW	1628-50T	
1192.5 MCM	1.225" (31.12 mm)	34x7 38x19	Grackle/ACSS/TW	1628-50T	-
	· · · · · ·	30x7	6		S
1192.5 MCM	1.203" (30.56 mm)		Scissortail/ACSS/TW	1628-50U	kg b
1272 MCM	/1.224" (31.09 mm)	38x7	Bittern/ACSS/TW	1628-50T	
1272 MCM	1.260" (32.01 mm)	39x19	Pheasant/ACSS/TW	1628-500)000 ,340
1272 MCM	1.256" (31.90 mm)	35x7	Dipper/ACSS/TW	1628-500	
1351.5 MCM	1.300" (33.02 mm)	42x19	Martin/ACSS/TW	1628-50U	
1351.5 MCM	1.291" (32.79 mm)	36x7	Bobolink/ACSS/TW	1628-50W	10
1431 MCM	1.337" (33.96 mm)	44x19	Plover/ACSS/TW	1628-50W	ⁿ
1431 MCM	1.340" (34.04 mm)	39x19	Merrimack/ACSS/TW	1628-50X	_
1433.6 MCM	1.380" (35.02 mm)	38x19	Rio Grande/ACSS/TW	1628-50X	4
1533.3 MCM	1.350" (34.29 mm)	36x7	Potomac/ACSS/TW	1628-50X	-
1557.4 MCM	1.334" (33.88 mm)	33x7	Platte/ACSS/TW	1628-50X	
1569 MCM	1.358" (34.49 mm)	36x7	Lapwing/ACSS/TW	1628-50X	
1590 MCM	1.410" (35.81 mm)	42x19	Falcon/ACSS/TW	1628-50X	
1590 MCM	1.420" (36.07 mm)	39x19	Pecos/ACSS/TW	1628-50Y	
1622 MCM	1.386" (35.20 mm)	36x7	Schuylkill/ACSS/TW	1628-50Y	
1657.4 MCM	1.470" (37.34 mm)	34x19	James/ACSS/TW	1628-50X	
1730.6 MCM	1.427" (36.25 mm)	38x7	Pee Dee/ACSS/TW	1628-50Z	
1758.6 MCM	1.445" (36.70 mm)	38x19	Chukar/ACSS/TW	1628-50Y	
1780 MCM	1.550" (39.37 mm)	42x19	Cumberland/ACSS/TW	1628-50Y	
1926.9 MCM	1.504" (38.20 mm)	44x7	Athabaska/ACSS/TW	1628-50A	
1949.6 MCM	1.602" (40.69 mm)	64x19	Powder/ACSS/TW	1628-50Z	
2153.8 MCM	1.608" (40.84 mm)	64x19	Bluebird/ACSS/TW	1628-50B	
2156 MCM	1.761" (44.73 mm)	64x19	Santee/ACSS/TW	1628-50B	X
2627.3 MCM	1.761" (44.73 mm)	64x19	Santee/ACSS/TW	1628-50D	

*Must use two of recommended grips in tandem. See grip use instructions on pages 16-17.

ACSS/TW TRANSMISSION CABLES

Chicago™ Grips 1628 Series

• Round jaws are shaped to provide maximum contact with the cable, virtually eliminating cable deformation.

Best Practices for ACSS/TW Conductors

- Larger than 0.953" outside diameter (approximately 600 MCM) - Use the 1628-50 or 1628-40 series Chicago Grips. The necessary grip size should be determined based on the cable outside diameter. For applications where the load is expected to exceed 10,000 lbs. (4,536 kg), use two of the appropriate grips in tandem to prevent cable deformation. See instructions for using two grips in tandem on page 17.
- 2. Smaller than 0.953" outside diameter (approximately 600 MCM) Use two of the appropriate 1656 series Chicago Grips in tandem. The necessary grip size should be determined based on the cable outside diameter. See instructions for using two grips in tandem on page 17.
- 3. For grip recommendations, contact us at hisupport@kleintools.com.

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Eac
8,000 lbs	. (3,629 kg) l	Maximum Safe Lo	ad		
1656-40	1656-40H	S1656-40H	.53"74" (13.46 mm - 18.79 mm)	E 1/0"	0.00 lba
1656-50	1656-50H	S1656-50H	.74"86" (18.80 mm - 21.84 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-60	1656-60H S1656-60H .86"96" (21.84 mm - 24.38 mm)		(110 mm)	(0.10 kg)	
25,000 lb	s. (11,340 kg) Maximum Safe	Load with bolt on jaw		
1628-50P*			.95" - 1.02" (24.23 mm - 25.78 mm)		\sim
1628-50R*			1.02" - 1.08" (25.81 mm -27.38 mm)		
1628-50S*			1.08" - 1.14" (27.41 mm - 28.96 mm)		
1628-50T*			1.14" - 1.20" (28.99 mm - 30.55 mm)		
1628-50U*			1.20" - 1.27" (30.58 mm - 32.13 mm)		
1628-50W*			1.27" - 1.33" (32.16 mm - 33.73 mm)	10-3/4"	34 lbs.
1628-50X*	NA	NA	1.33" - 1.39" (33.76 mm - 35.30 mm)	(273 mm)	(15.45 kg)
1628-50Y*			1.39" - 1.45" (35.33 mm - 36.91 mm)		
1628-50Z*			1.45" - 1.52" (36.93 mm - 38.48 mm)		
1628-50A*			1.52" - 1.58" (38.51 mm - 40.08 mm)		
1628-50B*			1.58" - 1.64" (40.11 mm - 41.66 mm)		
1628-50C*			1.64" - 1.70" (41.68 mm - 43.26 mm)		
1628-50D*	-		1.70" - 1.77" (43.28 mm - 44.83 mm)		

*These grips are special order only. Application must be confirmed prior to ordering. Allow 30 days for delivery.

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1628-50

1628-40



- 1628-50 equipped with removable bolt on floating jaw, secured by a slotted nut and cotter pin. Jaw provides increased cable coverage.
 - Note: Jaw must be removed to insert cable for model 1628-50.

Web Strap Ratchet Hoists

- Large, non-conductive drum knob allows web slack to be adjusted with ease.
- 3/4 ton single line and 1-1/2 ton double line load rating.
- Tight ratcheting mechanism allows precise tensioning.
- Meets ANSI/ASME B30.21-2005 & B30.10-2009 standards.
- Hot rings for hot stick use (Cat No. KN1500P-EXH only).

Cat. No.	Pull Type	Weight (lbs.)
KN1500P-EX	Single/ Double	12.5 lbs (5.7 kg)
KN1500P-EXH	Single/ Double	13.6 lbs (6.2 kg)



Load Rating: 1500 lbs. (675 kg) Min. to Max. Pulling Distance: 20" - 138" (500 mm - 3500 mm)



Double Line

Load Rating: 3000 lbs. (1,350 kg) Min. to Max. Pulling Distance: 26" - 79" (700 mm - 2000 mm)

Howe Wire Tool

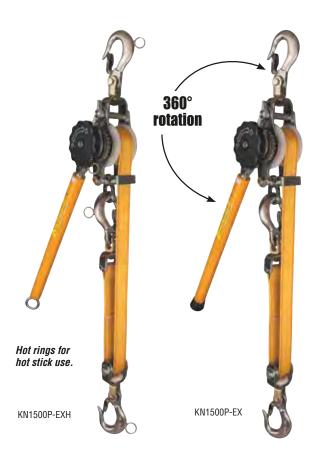
- Strap is made of tough Klein-KordTM.
- Swivel hook is forged steel with large opening.
- Shank of hook is lengthened to reach under insulator.
- Other end has device to hold the load at any distance.
- All metal parts are galvanized.
- Max. safe load 500 lbs. (225 kg).

Cat. No.	Description	Weight (lbs.)
1702-20N	Nylon Strap 1" (25 mm) wide, 7' (2.1 m) long	1.95 lbs. (0.9 kg)

Grip-Cleaning Brush Set

- Set of four wire-bristle brushes designed for cleaning Klein wire and cable-pulling grips.
- Brushes have stiff wire bristles.
- Available in round and square shapes and two lengths for efficient cleaning of different jaw configurations.
- Semi-flexible steel shafts set into comfortable wooden handles provide the necessary reach into grip jaws.

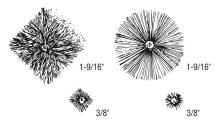
Cat. No.	Set Contains			Weight (lbs.)
25450				1.00 lbs. (0.45 kg)
	Description	Bristle Diameter and Length	Overall Length	
	round-bristle square-bristle	3/8" x 3" (10 mm x 76 mm)	12" (305 mm)	-
	round-bristle square-bristle	1-9/16" x 5" (40 mm x 127 mm)	14" (356 mm)	-







25450



www.kleintools.com See Wire Pulling Grip Warnings on the inside cover.

14

OMMENDED CARI

Grip Cleaning, Lubricating and Inspecting

The following guidelines have been established to keep all grips in good working condition.

Cleaning





Step 1. Use the Klein Grip Cleaning Wire Brush Set (Cat. No. 25450) or emery cloth to clean the surfaces of grip jaws (photo #1).



Step 2. Spray de greaser on the grip jaws, all joints and moving parts (photo #2).



Step 3. Use the Klein Grip Cleaning Wire Brush to remove dirt and debris from the grip jaws (photo #3).

Step 4. Wipe grips dry with soft cloth. Repeat all cleaning steps as necessary until grip is completely clean (photo #4).



Lubricating







Jaws

closed

Step 5.

Apply lubricant to all joints and moving parts. Do NOT lubricate gripping surfaces of jaws (photos left #5).

Body

Jaw

ß

Side

Loop

To lock

open

handle

plates

Step 6. Carefully inspect jaw condition, proper alignment of jaws and all parts, and possible distortion caused by exceeding safe-load specifications. Grips should operate smoothly. Spring-loaded grips should lock open with loop handle in "Down" position and should close automatically with loop handle "Up." The Klein Parallel Jaw Grip may be tested by opening and closing the jaws by hand, exercising proper caution. All parts and rivets should be checked for distortion (illustration #6).

Never repair any grip. Grips that are bent, misaligned or otherwise distorted should be discarded and replaced.

If there is ever a question about the safe condition of any grip, contact Klein Tools Customer Service directly at **847.821.5500** or **800.553.4676** or email **HiSupport@kleintools.com**.

Dead-Ending

- **1.** Set up the ratchet hoist and Chicago Grip as shown here.
- **2.** Ratchet the hoist until the cable is lined up with the dead-end fixture.
- **3.** After the tension is approximately where it will need to be after termination, ratchet the hoist a couple more times to accommodate for tension loss after hoist removal. Consult cable specifications to ensure the maximum cable tension is not exceeded.



4. When finished, break the tension using the hoist handle, then use either the handle or drum knob to continue releasing the tension.

Sagging Using a Dynamometer

- **1.** Set up ratchet hoist, Chicago Grip and dynamometer as shown here.
- 2. Ratchet the hoist until the dynamometer displays the desired tension. Consult conductorspecifications or company procedures to determine the appropriate tension.
- **3.** When finished, break the tension using the hoist handle, then use either the handle or drum knob to continue releasing the tension.



Splicing

- 1. Set up ratchet hoist and Chicago Grips as shown here.
- **2.** Connect the KN1500PEX Web Strap Ratchet Hoist to each grip, and ratchet to the desired tension to make the splice.

The cable can now be spliced according to standard work procedures and material guidelines.

3. When finished with the splice, break the tension using the hoist handle, then use either the handle or drum knob to continue releasing the tension.





www.kleintools.com See Wire Pulling Grip Warnings on the inside cover.

Using Two ChicagoTM Grips in Tandem

For applications where the maximum load exceeds the safe load of an individual grip, or the cable is at risk of deformation, it is recommended to use two Chicago Grips in tandem. Using two grips in tandem divides the weight load between both grips, allowing for an effective work load increase of 1.5 times the safe load of each individual grip.

For example, two Klein Tools 1628-40 Chicago Grips, each with a maximum safe load of 25,000 lbs. (11,340 kg) individually, have a combined working safe load of 37,500 lbs. (17,009 kg).

In some transmission applications—commonly using the 1628-30, 1628-40 or 1628-50 series Chicago Grips—there is a risk of cable deformation under high tensions. To avoid this risk, Klein Tools recommends using two grips in tandem if:

- ACSR or AAC conductors the load is expected to exceed the lesser of 12,500 lbs. (5,670 kg) or 40% of the conductor tensile strength.
- ACSS conductors—the load is expected to exceed the lesser of 10,000 lbs. (4,536 kg) or 40% of the conductor tensile strength.



- **1.** Place each grip on the same conductor, approximately five feet apart.
- 2. Connect a pulley block (leveling block) to the eye of each grip. This will maintain equal distribution of the weight load between both grips.
- 3. Connect an anchored chain hoist of appropriate capacity to the block as shown in the image above.
- 4. Ratchet the chain hoist to the desired tension, as shown in the image below.



Materials Used: Klein Tools Chicago Grips, Klein Tools KN1500PEX web strap ratcheting hoist, Dillon Dynamometer, chain hoist, leveling block.

Disclaimer: This is not intended to be a definitive instructional manual for completing the applications. Always consult company procedures and material guidelines before attempting any application.

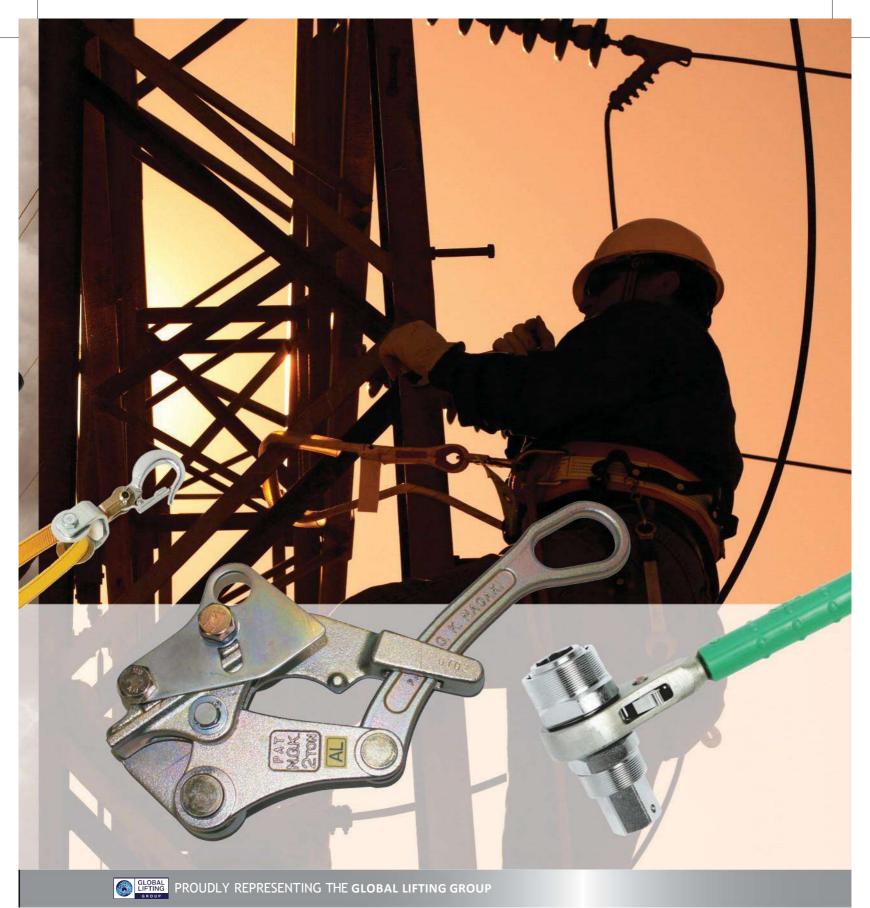


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Questions? Contact Klein Tools at: HiSupport@kleintools.com © 2015 Klein Tools, Inc. Lincolnshire, IL 60069-1418 Rev. 9/15 A **96427**





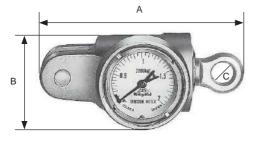


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N.G.K. TOOL GUIDE

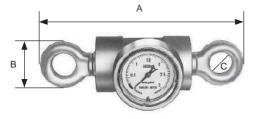
NGK TENSION METERS

For precise measurement of tension and loads. Available in various sizes and capacities.



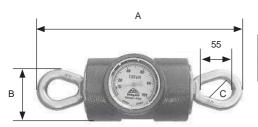


Model	Capacity	Graduation	А	В	С	Wtkg
A-1	1kN (0.1t)	20N (2kg)	130	65	20	0.7
A-3	3kN (0.3t)	50N (5kg)	110	65	16	0.7
A-5	5kN (0.5t)	100N (10kg)	110	65	16	0.7
A-10	10kN (1.0t)	200N (20kg)	135	65	16	0.8
A-20	20kN (2.0t)	500N (50kg)	135	65	16	1.2



A-30, A-50

Model	Capacity	Graduation	Α	В	С	Wtkg
A-30	30kN (3.0t)	500N (50kg)	150	80	28	2.0
A-50	50kN (5.0t)	1kN (100kg)	260	95	28	3.0



A-100

Model	Capacity	Graduation	Α	В	С	Wtkg
A-100	100kN (10.0t)	2kN (200kg)	360	100	38	7.0

N.G.K.

Nagaki Seiki Co Ltd Japan manufactures top quality wire rope grips, ratchet pullers, ratchet wrenches and tension meters. These products are manufactured to the highest standards to suit all wire rope tensioning applications.



NGK RATCHET PULLERS

Models N-1000P & N-1500P (1.5m pull)

Handle is insulated and rotates full 360°.



Model	Capacity kN - t	Strap Size mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
N-1000P	10 (1.0)	2 x 33	440	1940	400	3.3
N-1500P	15 (1.5)	2 x 40	470	1970	460	4.6

Model N-1500P-EX

(1.5m double (D) x 3m single (S) pull)

Convertible with 3 hooks, handle is insulated and rotates full 360°.

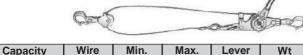


Capacity	Strap Size mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
15kN x 7.5kN	2 x 40	500	D: 2000 S: 3500	460	5

Model P-1500-EX

(3m double (D) x 6m single (S) pull)

Steel handle rotates full 360°.



Сарасну	Dia. mm	Lth mm	Lth mm	Lever Lth mm	kg
1.5kN x 7.5kn	AIR5	500	D: 3500 S: 6500	430	5

Model Ricky-2 (1.5m pull)

Light weight, alloy link chain, handle rotates full 360°.



Capacity	Chain Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
7.5kN (0.75t)	5	300	1800	230	4

Model 3000

With 2 pawls, aluminium housing, alloy link chain, steel handle rotates full 360°. Optional chain bag.



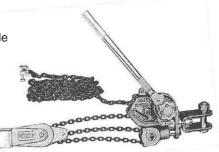
Capacity	Chain Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
30kN (3.0t)	5	480	2000	430	8

Model 4000 & 6000

Alloy link chain, handle

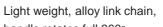
rotates full 360°.

Optional chain bag.



Capacity	Chain Dia.	Min. Lth	Max. Lth	Lever Lth	Wt
40kN (4.0t)	mm 5	mm 580	2180	mm 430	kg 12
	_				
60kN (6.0t)	5	650	2250	430	19

Model Ricky-3 (1.5m pull)





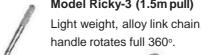
Capacity	Chain Dia. mm	Min. Lth mm	Max. Lth mm	Lever Lth mm	Wt kg
15kN (1.5t)	5	350	1850	230	5

NGK RATCHET WRENCH

Model BY-3

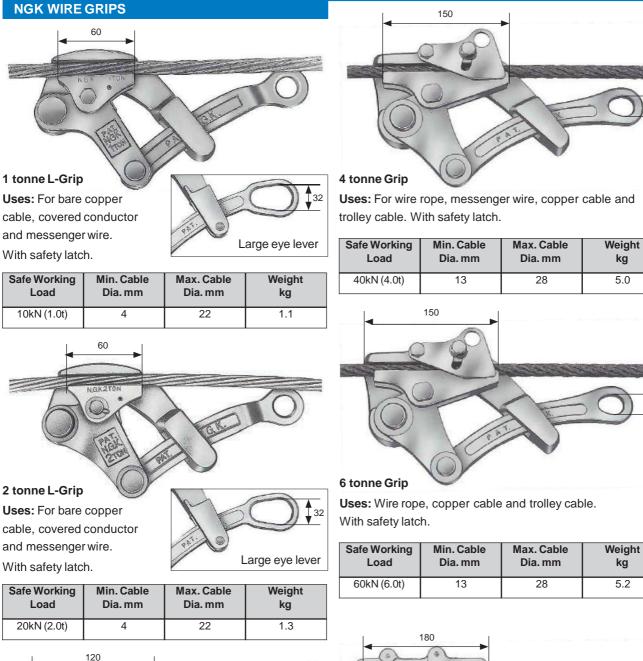
Four different sizes in one (insulated handle).

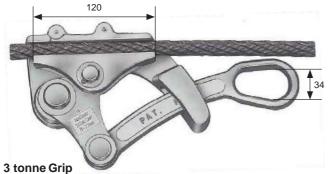




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	Canacity	Chain	Min	Max

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Nt	Capacity	Chain Dia.	Min. Lth	Max. Lth	Lever Lth





Uses: For wire rope, messenger wire, copper cable and trolley cable. With safety latch.

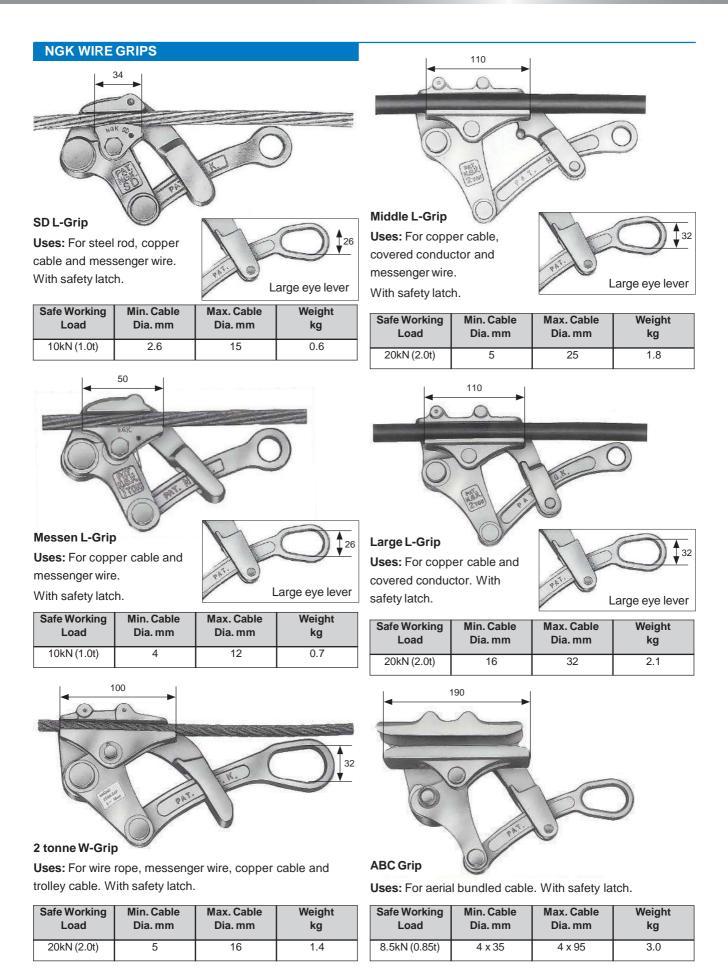
Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
30kN (3.0t)	8	22	

10 tonne Grip

Uses: Wire rope and messanger wire. With safety latch.

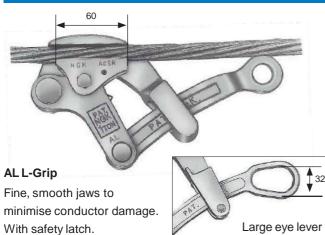
Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
100kN (10.0t)	18	32	

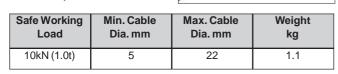
WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!

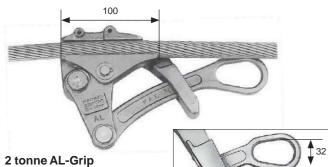


WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!

NGK WIRE GRIPS

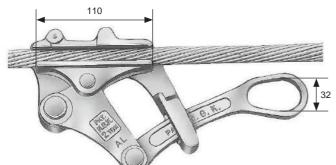






Uses: Bare aluminium cable. With safety latch.

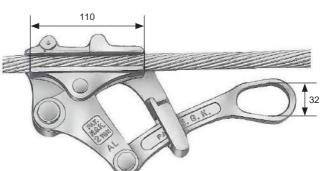
Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
20kN (2.0t)	5	16	1.5



AL - Middle Grip

Uses: For bare aluminium cable. With safety latch. With safety latch.

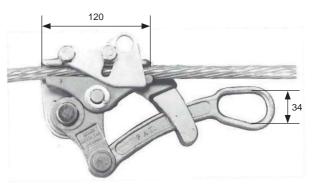
Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
20kN (2.0t)	5	25	1.8



AL - Large Grip

Uses: For bare aluminium cable. With safety latch.

Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
20kN (2.0t)	16	32	2.0

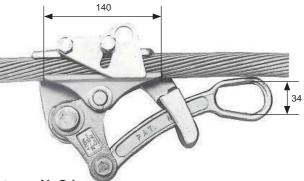


3 tonne AL-Grip

Large eye lever

Fine, smooth jaws to minimise conductor damage. With safety latch

Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
30kN (3.0t)	8	22	3



4 tonne AL-Grip

Uses: Bare aluminium cable. With safety latch.

Safe Working	Min. Cable	Max. Cable	Weight
Load	Dia. mm	Dia. mm	kg
40kN (4.0t)	20	35	3.7

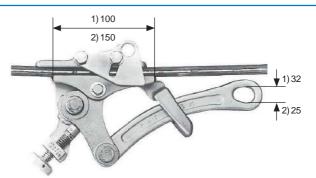
WARNING: THESE PRODUCTS CANNOT BE USED FOR LIFTING AND LOWERING OR FOR SUPPORTING HUMAN CARGO!



10 tonne AL-Grip

Uses: Large size bare aluminium cable only. With safety latch.

Safe Working Load	Cable Range	Jaw Length	Weight kg
	Ø 32-46		
100kN (10.0t)	Ø 42-52 (Option)	300	13



Trolley Grip Type 1 & 2

Uses: For railway work, trolley cable, messenger wire, wire rope and copper cable. With safety latch.

Safe Working Load	Min. Cable Dia. mm	Max. Cable Dia. mm	Weight kg	
20kN (2.0t)	5-16	100	1.5	
20kN (2.0t)	8-20	150	2.8	

NAGAKI TOOLS TRIPLE S: SAFETY, SPEEDY AND STRONG

All Nagaki tools have cleared our "SSS" (Safety, Speedy and Strong) quality standard. With half a century of experience and knowledge in making tools for electrical facilities works behind us, Nagaki meets the user's up to date needs with cutting-edge technology and superior manufacturing skills.

IMPROVING EFFICIENCY

Nagaki tools perform with

precision and efficiency

in all sorts of

environments

WWW Nagaki has obtained the certifications of

International Standards:

ISO9001 and ISO14001

(Wire grip tools – Hot stick tools)

With its constant effort to improve quality and reduce the burden on the environment, Nagaki has obtained ISO9001 and ISO14001 certifications,

the top international standards for quality and environmental sustainability. We are determined to continue our efforts in doing all we can to serve our customers needs and earn their trust.

ENSURING SAFETY

Nagaki tools ensure safety of operation and help to prevent worksite accidents



STRONG ACHIEVING DURABILITY

Nagaki tools can endure harsh working conditions and will maintain premium quality over long periods of use



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A.B.C. COMEALONGS

Aerial Bundled Conductor (ABC) Comelongs are designed to reduce cable fatigue and provide ease of application for the user. Equipped with plated bodies, a long fixed lower jaw and spring loaded upper jaw the unit is fitted to the conductor which will retain it firmly in place so attachment to ratchet pullers or our in-line service tension pullers can be carried out with ease, compliments of the large hauling eye provided. This product was specifically designed for service line work following numerous requests from the power industry to supply a comealong suitable for all service lines.

Code	Application	Cable OD	2 Core	4 Core	Eye size mm	WLL	Weight
12870	Service Lines (small ABC)	8-25mm	2 x 16 , 2 x 50	4 x 16. 4 x 35	27 x 40	2.0 kN	0.9kg
12887	Large ABC	14-34mm	2 x 25, 2 x 95	4 x 25, 4 x 95	30 x 45	10.0kN	2.1kg







Sydney Office 11/5 Hudson Ave Castle Hill NSW 2154 Ph: 02 8850 2700





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9401-SP

WIRE ROPE TENSIONING CLAMP

- Designed for copper and steel wires
 Suitable for linesmen, bridge builders, industry and
 agriculture
 Parallel hardened steel tensioning jaws
 Galvanised body
- Spring-loaded jaws grip wire easily



catno.	wire Ø (mm)	working load limit (kg)	eye size (mm)
9401-05-SP	1 - 5	500	20 x 20
9401-09-SP	3 - 9	1000	22 x 22
9401-12-SP	4 - 12	1700	27 x 27
9401-18-SP	6 - 18	3000	25 x 38
9401-28-SP	10 - 28	3500	30 x 40
9401-40-SP	20 - 40	4000	30 x 40

9401-ALU

ALUMINIUM ROPE TENSIONING CLAMP

- Designed for aluminium and A.C.S.R. wires
- Suitable for linesmen
- Parallel galvanised tensioning jaws
 Galvanised body
- Spring-loaded jaws grip wire easily

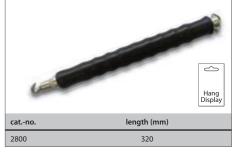


catno.	wire Ø (mm)	working load limit (kg)	eye size (mm)
9401-08-ALU	5.4 - 8.5	1000	22 x 22
9401-12-ALU	5 - 12	1700	27 x 27
9401-16-ALU	8 - 18	3000	25 x 38
9401-20-ALU	15 - 28	3500	30 x 40
9401-30-ALU	20 - 40	4000	30 x 40

2800

TIE-WIRE TWISTER

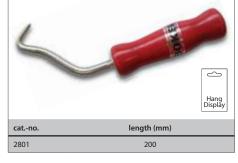
Industrial quality twister
Machined spring-return spiral spindle
Designed for fast, secure tying of sack closures, tie wires etc.



2801

WIRE TWISTER

Hardened steel revolving hook
 Lacquered wooden handle





3157 / 3158

STENCIL PLATE



Letter - Stencil Plate	catno. 3157
27 piece: A - Z (Capital	Is and "&")
Figure - Stencil Plate 10 piece: 0 - 9	catno. 3158

letter catno.	number catno.	character height (mm)
3157-040	3158-040	40
3157-050	3158-050	50
3157-060	3158-060	60
3157-070	3158-070	70
3157-080	3158-080	80
3157-100	3158-100	100
3157-150	3158-150	150

