

Machines and Tools For Electrical Installations, Telecommunications and Offshore



CIVITELLA, a 100% Brazilian company with over 50 years in the market and also recognized throughout Latin America for the quality of its products, in March 2013 became part of Klein Tools Group (USA), a company founded in 1857, a leader in its segment of the American market and with notable presence in various countries throughout the world.

With the union of **CIVITELLA** to Klein Tools, family businesses whose stories and cultures overlap and are similar, a new horizon settles, because, besides our construction and maintenance products for power transmission, telecommunication and offshore lines, we offer the entire line of Klein products.

Klein Tools' tools are designed for professionals who work in the area of electricity and other segments such as VDV, air conditioning, mining, telecommunications and oil. Manufactured in the United States, they feature high quality, excellent performance and great durability, combining safety and convenience to practicality and accuracy in the realization of the work.

We expanded our facilities in June 2014, aiming to meet future demands and our customers' expectations and needs. We reaffirm once again our commitment to continuous improvement, with the requirements of a quality system and the continuous improvement of production methods, in accordance with our quality policy, providing thus a work environment where everyone can achieve excellence in the development of their skills.

CIVITELLA

Rua Inácio Borba, 749 São Paulo - SP - Brasil CEP: 04715-020 Phone: +55 11 5182.9577 • Fax: +55 11 5181.2300 www.civitella.com.br

We reserve the right to change any technical specification without prior notice.

CONTENTS

CIVITELLA

Closed Wire Mesh Grip - 1 Eye 5
Closed Wire Mesh Grip - 2 Eye 6
Split Wire Mesh Grip7
Wire Mesh Grip For Conductors 8
Temporary Splice Grip9
Offshore Cable Grip 10
Grip For Stringing Opgw Cables 11
Nylon Mesh Grip
Stand For Inspection Of Adss Cable ${\bf 13}$
Pulley For Launching Adss Cable \dots . 13
Equalizer For Adss Cables
Pulley For Lifting Material
Reel For Pre-Assembled Cables
In A Distribution Network15
Cable Carts
Inspection Cart For 2 Conductors \dots . 16
Condutor Inspection Chair
1-Line Cable Cart
2-Line Cable Cart
4-Line Cable Cart
Stand For Lifting Reels
Stand For Lifting Reels 7 T 18
Dynamometer
Digital Dynamometer 19
Nut Splice
Metal Ladder For Installation
Open Wire Pulling Grip 22, 26-27
Open Pulling Grip - Energized Lines. 23-25
Open Wire Pulling Grip - CIV-LWF 28
Open Wire Pulling Grip
Energized Lines - CIV-LWF-CE 29
Closed Wire Pulling Grip
Radial Locking Gripper - 6 Screw 31
Radial Locking Grip For OPGW Cables . $\ensuremath{\textbf{32}}$
Radial Locking Gripper - 10 Screw 33
Radial Locking Gripper - 12 Screw 34
Stabilizer For OPGW Cable35
Pulling Grip For Steel Wire

Lever Winch
Clamp For Conductor Grounding 37
Protective Fencing
Swivel Joint
Cable Lasher
Dual Cable Lasher
Small Cable Lasher
Blocks
Blocks - Hard Load Series
Steel Mounting Mast
Aluminum Mounting Mast 45
100 Ton Hydraulic Press 46
120 Ton Hydraulic Press
150 Ton Hydraulic Press
Hexagonal Compression Dies
Pulley For Stringing
Lightning Arrester Cables50
Cables On Crossbeams
Pipe-Type Cables 51
With Grounding Roller53
Pulley For Secondary Networks 52
Pulley For Rural Electrification 52
Pulley For 1 Conductor
Pulley For 2 & 3 Conductors 54
Pulley For 4 Conductors
Pulley For 6 Conductors 55
Bundle Conductor Stringing Board 55
Manual Lever Hoist 56
Steel Cable Cutter
Canvas Bucket
Tool Bag
Shoulder Bag
Lashing Wire
Tow Rope
Cable Unwinder
Swivel
Aerial Cable Guide
Eriband Machine

KLEIN TOOLS

Company History
Cable Cutters
Insulated Tool Kits64-66
Lineman Wrenches
Lineman Bags
Leather Tool Bags
Lineman Buckets
Lineman Accessories75
Hooks
Slings
Wire Pulling Grips76-95
ACSR
ACSS/TW
AAC
Steel Strand – Chicago $^{\ensuremath{\mathbb{B}}}$ Grips 90-91
Steel Strand – Haven's $^{\ensuremath{\mathbb{B}}}$ Grips \ldots . 92
$Copper/Steel\ Strand-Chicago^{\circledast}\ Grips \textbf{92}$
Wide Range Of Cables93-94
Interchangeable Jaw Grips & Liners $\ .\ .\ 95$
Grip Accessories
Wire-Mesh Grips
Lineman Knives

ACSR GUIDE



CIVITELLA offers a variety of wire mesh grips for use in any situation, whether in aerial or underground installations, electrical, telephone or data transmission networks, fiber optics, mining, gas or offshore applications.

Grips are made from a flexible steel mesh, designed to solve problems encountered during pulling, support and splicing of cables, wires, pipes and umbilicals, providing a more secure and durable system.

The following points need to be considered when selecting the most appropriate **CIVITELLA** grip for a particular job:

- 1. The outer diameter of the cable or wire.
- 2. The tensile load to be used.
- 3. The type of work: pulling, support or splicing.
- 4. Whether the end of the cable or wire is accessible.

CIVITELLA also develops special designs according to specific customer needs.



CLOSED WIRE MESH GRIP - 1 EYE

Line: 51.C01.A

One Eye, Closed Mesh.

Suitable for pulling electrical and telephone wires during the installation of underground networks. The work is performed from the end of the cable.

The grip has a sleeve on the eye to protect cables in the pulling location.

A reliable and reusable pulling tool, easily installable and removable, capable of pulling a single cable or several grouped cables. It is recommended to use this grip with a swivel.



Code	Cable Di	ameter (mm)	Length (mm)		Load	Weight (kg)		
	Min.	Max.	L	L1	R	Working	Breaking	
51.C01.A1	13	25	600	460	12	800	2,400	0.200
51.C01.A2	25	38	850	610	12	1,700	5,100	0.500
51.C01.A3	38	51	900	610	12	2,500	6,600	0.600
51.C01.A4	51	63	1,200	910	16	4,500	12,500	1.450
51.C01.A5	63	76	1,270	910	16	5,500	13,000	1.650
51.C01.A6	76	90	1,270	910	16	7,500	13,500	1.900
51.C01.A7	90	100	1,300	910	16	8,500	13,800	2.100

Note: Grips can be manufactured in special sizes to meet specific needs.





CLOSED WIRE MESH GRIP - 2 EYE

Line: 51.C01.B

Two Eye, Closed Mesh.

Used for pulling and support of telephone cables and electrical wires during the installation of underground networks. The grip is placed at the point of application by feeding from the end.

It features sleeves on the eyes to protect cables in the pulling location.

An economic tool for pulling and support, offering simple installation and removal with safety, strength and reliability.



Code	Cable Dia	Cable Diameter (mm)		Length (mm)			Load (kgf)	
	Min.	Max.	L	L1	R	Working	Breaking	
51.C01.BA	13	25	600	460	12	800	2,400	0.270
51.C01.BB	25	38	840	610	12	1,700	5,100	0.550
51.C01.B1	38	51	840	610	12	2,500	6,600	0.650
51.C01.B2	51	63	900	610	14	4,500	12,500	0.850
51.C01.B3	63	76	910	610	14	5,500	13,000	1.300
51.C01.B4	76	90	1,050	610	14	7,500	13,500	1.500
51.C01.B5	90	100	1,100	610	14	7,500	13,800	1.700

Note: Grips can be manufactured in special sizes to meet specific needs.





SPLIT WIRE MESH GRIP

Line: 51.C01.C

Two eyes, open mesh, closing wire.

Used for support and pulling, this grip can be attached at any point of the cable or conductor, without feeding the end in.

It features sleeves on the eyes to protect cables in the pulling location.

Easy to attach, the grip has a reusable closing wire, made of galvanized steel for greater strength.



Code	Cable Dia	meter (mm)	l l	Length (mm)	ngth (mm)		Load (kgf)	
	Min.	Max.	L	L1	R	Working	Breaking	
51.C01.CA	19	25	840	610	12	800	2,000	0.200
51.C01.C0	25	38	840	610	12	2,500	6,600	0.600
51.C01.C1	38	51	840	610	12	2,500	6,600	0.650
51.C01.C2	51	63	900	610	14	4,500	12,500	0.850
51.C01.C3	63	76	970	610	14	5,500	13,000	1.350
51.C01.C4	76	90	1,050	610	14	7,500	13,500	1.450
51.C01.C5	90	100	1,100	610	14	7,500	13,800	1.700

Note: Grips can be manufactured in special sizes to meet specific needs.



Machines and Tools for Electrical Installations, Telecommunications and Offshore Operations

WIRE MESH GRIP FOR CONDUCTORS

Line: 51.C01.D

One flexible eye, closed mesh.

Suitable for stringing electrical conductors, this grip is attached at the end of the cable. Longer than the 51.C01.A model, it offers improved cable accommodation and safety, especially when working with smaller diameters.

It features a flexible, sleeveless eye to facilitate the passage of the grip over stringing pulleys and a braided 3-cable mesh for greater strength.



This economical tool is fully reusable, safe, robust and reliable. Easy to attach and remove, it is recommended for use in conjunction with a swivel.





Code	Cable Diameter (mm)		Length (mm)		Load (kgf)		Weight (kg)
	Min.	Max.	L	L1	Working	Breaking	
51.C01.D1/4"	6	8	800	700	500	1,250	0.1
51.C01.D3/8"	8	10	1,300	600	800	2,000	0.4
51.C01.D1/2"	10	14	1,300	600	800	2,000	0.4
51.C01.D1	14	19	1,500	700	1,000	2,500	0.5
51.C01.D2	18	23	1,650	800	1,500	4,000	0.8
51.C01.D3	22	29	1,750	800	2,500	6,000	1.3
51.C01.D4	28	39	2,000	900	4,000	8,000	1.7

Note: Grips can be manufactured in special sizes to meet specific needs.

TEMPORARY SPLICE GRIP

Line: 51.C01.E

The splice grip allows the ends of two cables or wires to be quickly connected and can also be used as a cable reinforcement.

Constructed with galvanized steel braids for greater strength, these grips are easy to attach and remove, offering flexibility in tracking the passage of cables over pulleys and stringing rollers.







Code	Cable Dia	meter (mm)		Length (mm))	Load	l (kgf)	Weight (kg)
	Min.	Max.	L	L1	R	Working	Breaking	
51.C01.E3/8"	8	10	1,800	800	2,000	0.4	2,400	0.270
51.C01.E1/2"	10	14	1,800	800	2,000	0.4	5,100	0.550
51.C01.E1	14	19	2,100	1,000	2,500	0.7	6,600	0.650
51.C01.E2	18	23	2,100	1,500	4,000	0.9	12,500	0.850
51.C01.E3	22	29	2,600	2,500	6,000	1.7	13,000	1.300
51.C01.E4	28	39	3,000	4,000	8,000	2.2	13,500	1.500
51.C01.B5	90	100	1,100	610	14	7,500	13,800	1.700

Note: Grips can be manufactured in special sizes to meet specific needs.

OFFSHORE CABLE GRIP

Line: Offshore

Two eyes, open mesh, steel closing wire.

Recommended for situations where there is a need to work with large diameters and loads. Suitable for offshore operations and oil exploration, especially in the support and pulling of submarine cables.

The capacity to withstand large pulling loads is a result of the robust, galvanized steel design, providing a safe, reliable and versatile tool that can be attached at any point along the cable.



Code	Cable Diar	neter (mm)		Length (mm)		Load	(kgf)	Weight (kg)
	Min.	Max.	L	L1	R	Working	Breaking	
CIV.MQP.35 / 1,5 T	35	40	950	700	14	1.5	7.5	1.0
CIV.MQP.55 / 2,0 T	55	60	1,050	750	14	2.0	10.0	1.8
CIV.MQP.70 / 3,0 T	70	75	1,300	900	14	3.0	15.0	3.2
CIV.MQP.97,7 / 10,0 T	—	97.7	2,200	1,600	20	10.0	30.0	9.5
CIV.MQP. 100 / 6,0 T	100	110	2,200	1,600	20	6.0	30.0	10.0
CIV.MQP.110 / 15,0 T	—	110	2,700	2,100	20	15.0	30.0	13.0
CIV.MQP.112 / 10,0 T	—	112	2,200	1,600	20	10.0	30.0	10.5
CIV.MQP.127 / 15,0 T	—	127	2,400	1,600	20	15.0	30.0	14.0
CIV.MQP.130 / 15,0 T	—	130	2,700	2,000	20	15.0	30.0	17.0
CIV.MQP.140 / 5,5 T	140	150	2,400	1,600	20	6.0	30.0	15.0
CIV.MQP.140 / 10,0 T	140	150	3,400	2,600	20	10.0	30.0	21.0
CIV.MQP.150 / 18,0 T	—	150	3,400	2,600	20	18.0	30.0	22.0
CIV.MQP.200 / 5,5 T	200	220	3,300	2,200	28	6.0	30.0	32.0
CIV.MQP.200 / 9,0 T	200	220	3,900	2,800	28	9.0	45.0	35.0
CIV.MQP.230 / 25,0 T	—	230	4,900	3,500	28	25.0	45.0	45.0
CIV.MQP.250 / 9,0 T	250	270	4,200	2,800	28	9.0	45.0	40.0
CIV.MQP.250 / 16,0 T	250	270	4,900	3,500	28	16.0	70.0	47.0
CIV.MQP.275 / 25,0 T	—	275	4,900	3,500	28	25.0	70.0	48.0
CIV.MQP.310 / 16,0 T	310	340	5,200	3,500	40	16.0	80.0	58.0
CIV.MQP.310 / 24,0 T	310	340	5,500	3,800	40	24.0	80.0	61.0
CIV.MQP.350 / 16,0 T	350	385	5,200	3,500	40	16.0	80.0	66.0

Note: Grips can be manufactured in special sizes to meet specific needs.

GRIP FOR STRINGING OPGW CABLES

Line: 51.C01.F

Closed wire mesh grip with flexible eye.



Code	Cable Dian	Load (kgf)	
	Min.	Max.	Breaking
51.C01.F2	10	14	3,500
51.C01.F3	14	19	3,500

Note: Grips can be manufactured in special sizes to meet specific needs.



NYLON MESH GRIP

Line: 51.C01.N

Closed wire mesh grip with flexible eye.

Made of nylon, suitable for cable and conductor support and pulling. The grip has an opening near the eye, allowing passage of the conductor.

Code	Cable Diameter (mm)	Load (kgf)	
		Working	Breaking
51.C01.N1	13	150	300
51.C01.N2	14	150	300
51.C01.N3	15	150	300
51.C01.N4	16	150	300

Note: Grips can be manufactured in special sizes to meet specific needs.



STAND FOR INSPECTION OF ADSS CABLE

Code	Dimensions (mm)
51.C16.C1	160 x 760 x 910



PULLEY FOR LAUNCHING ADSS CABLE

- Lateral opening
- Swiveling yoke
- Neoprene lined pulleys

Code	Dimensions (mm)
51.C02.H5	490 x 375 x 140



EQUALIZER FOR ADSS CABLES





PULLEY FOR LIFTING MATERIAL

- Aluminum alloy body
- Sheave mounted on bearings
- Drawn steel hook

				C' Real
Code	Load	l (kgf)	Weight (kg)	10 2 4
54 000 54	Working	Breaking	4.05	
			6	

REEL FOR PRE-ASSEMBLED CABLES IN A DISTRIBUTION NETWORK

• Steel structure, aluminum pulley, polypropylene belt

Code	Dimensions (mm)	Weight (kg)
51.R03.I3	300 x 230 x 170	3.5



Used for inspecting and working on electrical and telephone networks. Designed for mounting on conductors, providing safety and efficiency for workers.

Code	Dimensions (mm)	Weight (kg)
51.C16.B1	600 x 500 x 150	15
51.C16.B1-A	600 x 500 x 250	18

They can be fabricated with aluminum tubes in the requested dimensions.



Code: 51.C16.B1-A

For one conductor, equipped with a brake and odometer.

Code: 51.C16.B1 For one conductor.





INSPECTION CART FOR 2 CONDUCTORS

- Fabricated with a steal tube structure.
- Specify the distance between the conductors in the order.

Code	Dimensions (mm)	Weight (kg)
51.C16.B2	1700 x 500 x 700	30



CONDUTOR INSPECTION CHAIR

- Permits movement on transmission lines with 02 or 04 conductors.
- Fabricated in aluminum and stainless steel, has an odometer, parking and dislocation brakes.
- The operator remains positioned below the transmission line.
- Specify the distance between the conductors in the order.

Code	Dimensions (mm)	Weight (kg)
51.C16.B2	1,860 x 820 x 645	45



1-LINE CABLE CART

- Equipment designed for placing and inspecting marker balls.
- Pedal operated, like a normal bicycle, with a balancing system between the wheels providing optimum grip on the conductor.
- The cable cart is equipped with a brake on the drive wheel, a meter counter and a reverser for changing direction.

Code	Dimensions (mm)	Weight (kg)
51.C16.A1	1800 x 800 x 500	40

2-LINE CABLE CART

- Equipment designed for placing and inspecting spacers.
- Pedal operated, like a normal bicycle, with a reverser for changing direction.
- The wheels rotate 90° to pass freely between the conductors for cart mounting.
- The cart is equipped with a brake on the drive wheels, a safety brake and a meter counter.
- When ordering a cart, indicate the center-to-center measurement between the conductors.

Code	Dimensions (mm)	Weight (kg)
51.C16.A2	1500 x 700 x 700	50

4-LINE CABLE CART

- Equipment designed for placing and inspecting spacers.
- Pedal operated, like a normal bicycle, with a reverser for changing direction.
- The wheels rotate 180° to pass freely between the conductors for cart mounting.
- The cart is equipped with a brake on the drive wheels, a safety brake and a meter counter.
- When ordering a cart, indicate the center-to-center measurement between the conductors.

Code	Dimensions (mm)	Weight (kg)
51.C16.A4	1500 x 750 x 750	65









STAND FOR LIFTING REELS

- Tubular steel structure, can be fully disassembled.
- Reel attachment with a through shaft and specially designed clamps.
- Ratchet-operated gear reel lifting system.
- Supplied for reels of up to 3,000 kg.
- Equipped with a disc brake.

Code	Dimensions (mm)	Weight (kg)
51.C13.C1	1260 x 2200 (max)	160





STAND FOR LIFTING REELS 71

- Tubular steel structure, can be fully disassembled.
- Reel attachment with a through shaft and specially designed clamps.
- Crank-operated gear reel lifting system.
- Supplied for reels of up to 7,000 kg.
- Equipped with a disc brake.

y	1) -	- It
the second		-

Code	Dimensions (mm)	Weight (kg)
51.C13.C2	1920 x 2880 (max)	320







DYNAMOMETER

- Capacity of 600 to 6000 kgf.
- Portable, fabricated in aluminum.
- Composed of steel laminated elastic elements.
- Scale increments in kilogram-force.
- Indicator point in black.
- Dead point for recording the maximum applied force (optional).
- Can be used in any position.
- Precision of 1% of the total capacity.
- Packaged in a plastic bag to facilitate transport and protect the device.
- One year guarantee against any defects in material, fabrication or precision.
- Dimensions: 490 mm length, 490 mm dial diameter
- Weight: 7 kg

Code	Capacity (kg)	Division (kg)	Code	Capacity (kg)	Division (kg)
51.D05.A1	600	5	51.D05.A5	3000	20
51.D05.A2	1000	10	 51.D05.A6	4000	50
51.D05.A3	1500	20	51.D05.A7	5000	50
51.D05.A4	2000	20	51.D05.A8	6000	50

DIGITAL DYNAMOMETER

- Configurable multi-function keys: TEST, UNITS, HOLD, PEAK HOLD, LIVE WEIGHT, SHOW TOTAL, HIGH RESOLUTION, SETPOINTS.
- Configurable digital filter (0.1 to 4s).
- LCD display with six 20mm digits and backlight.
- Two programmable outputs for activating the relays.
- Input for activating the keys by external keypad.
- Permits panel mounting.
- Functions with 4 AA size batteries (alkaline or rechargeable) or 110/220V dual volt power supply (included).
- HI.RES. function: increases the resolution 10x.
- Maximum error: 1 division.
- Maximum recommended overload: 20%.
- Overload for cell damage: 100%.
- Overload for cell rupture: 500%.
- Electronic digital SMD.
- 24 bit Sigma Delta A/D Converter.
- Serial output for computer.
- Working temperature: -10 to 50°C.
- Storage temperature: -20 to 50°C.
- Humidity: 0 to 90% not condensing.
- One year guarantee against any defects in material, fabrication or precision.

10.	T	1	
	1		
53.	1		

Code	Capacity (kg)
51.D05.A9	10000

We can handle other capacities by consultation.









NUT SPLICE

Manufactured in special heat-treated steel, the nut splice is used for splicing pilot cables, enabling safe passage through pulleys during stringing.





Code	Dimensions (mm)			Capaci	Weight (kg)		
	Α	В	C	ØD	Working	Breaking	
51.E01.C1	98	60	16	40	5,000	10,000	500
51.E01.C2	132	78	20	54	10,000	17,000	1,200
51.E01.C3	156	96	24	60	15,000	25,000	1,800
51.E01.C4	158	100	28	62	15,000	25,000	2,000

METAL LADDER FOR INSTALLATION

- Manufactured with special steel.
- Can be supplied in special lengths, as requested by the customer.



WIRE PULLING GRIPS

Machines and Tools for Electrical Installations, Telecommunications and Offshore Operations



*LINE: 51.E07.D*x

- Intended for tensioning electrical wires during network installation.
- Manufactured in heat-treated steel, zinc plated and passivated.







Code	Wire Ø (mm)		Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D2	4.50	11.50	1.250	2.500	DC	Steel	1.750	35 x 150 x 250
51.E07.D2	4.50	11.50	1.250	2.500	DC	Bronze	1.750	35 x 150 x 250
51.E07.D3	6.50	13.50	1.750	3.500	DC	Steel	3.200	45 x 170 x 350
51.E07.D3	6.50	13.50	1.750	3.500	DC	Bronze	3.200	45 x 170 x 350
51.E07.D4	10.50	19.00	2.50	5.000	DC	Steel	5.500	55 x 200 x 400
51.E07.D4	10.50	19.00	2.50	5.000	DC	Bronze	5.500	55 x 200 x 400
51.E07.D5	13.50	23.00	3.000	6.000	DC	Bronze	7.400	65 x 230 x 410
51.E07.D6	25.00	28.00	3.500	9.000	DC	Bronze	12.500	74 x 280 x 470
51.E07.D7	28.00	32.00	4.000	9.000	DC	Bronze	12.500	74 x 280 x 470

LINE: 51.E07.Dx-CE

- A safe and practical tool intended for tensioning energized lines.
- Features a side lock for cable lifting and placement.



Code	Wire Ø (mm)		Load (kgf)		Jaw (Jaw Contour		Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D2-CE	4.50	11.50	1.250	2.500	DC	Bronze	2,700	35 x 150 x 250
51.E07.D3-CE	6.50	13.50	1.750	3.500	DC	Bronze	3,200	45 x 170 x 280
51.E07.D4-CE	10.50	19.00	2.500	5.000	DC	Bronze	5,200	55 x 200 x 340
51.E07.D5-CE	13.50	23.00	3.000	6.000	DC	Bronze	6,700	60 x 240 x 390



LINE: 51.E07.Dxx-CE

- Intended for tensioning electrical wires during network installation.
- Manufactured in heat-treated steel, zinc plated and passivated.
- Features a side lock for cable lifting and placement.



Code	Wire Ø (mm)		Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D20-CE	5.08	10.16	800	2,000	DC	Bronze	1.480	36 x 152 x 255
51.E07.D30-CE	7.87	13.46	800	2,000	DC	Bronze	1.900	36 x 152 x 255
51.E07.D40-CE	13.48	18.80	1,700	3,600	DC	Bronze	3.500	46 x 180 x 290
51.E07.D50-CE	18.80	21.80	1,700	3,600	DC	Bronze	3.500	46 x 180 x 290

LINE: 51.E07.Dx-CE

- A safe and practical tool intended for tensioning energized lines.
- Features a side lock for cable lifting and placement.



Code	Wire Ø (mm)		Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D2-CE	4.50	11.50	1.250	2.500	DC	Bronze/Copper	1.800	35 x 150 x 250
51.E07.D3-CE	6.50	13.50	1.750	3.500	DC	Bronze/Copper	3.200	45 x 170 x 280
51.E07.D4-CE	10.50	19.00	2.500	5.000	DC	Bronze/Copper	5.200	55 x 200 x 340
51.E07.D5-CE	13.50	23.00	3.000	6.000	DC	Bronze/Copper	6.700	60 x 240 x 390



LINE: 51.E07.Dxx

- Intended for tensioning electrical wires during network installation.
- Manufactured in heat-treated steel, zinc plated and passivated.



Code	Wire Ø (mm)		Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D20	5.08	10.16	800	2,000	DC	Bronze	1.360	36 x 152 x 255
51.E07.D30	7.87	13.46	800	2,000	DC	Bronze	1.700	36 x 152 x 255
51.E07.D40	13.48	18.80	1,700	3,600	DC	Bronze	3.400	46 x 180 x 290
51.E07.D50	18.80	21.80	1,700	3,600	DC	Bronze	3.400	46 x 180 x 290

*LINE: 51.E07.D*x

• Intended for tensioning electrical wires during network installation.





Code	Wire Ø	(mm)	Load	Load (kgf)		w Contour	Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D2	4.50	11.50	1.250	2.500	DC	Steel	1.750	35 x 150 x 250
51.E07.D2	4.50	11.50	1.250	2.500	DC	Bronze/Copper	1.750	35 x 150 x 250
51.E07.D3	6.50	13.50	1.750	3.500	DC	Steel	3.200	45 x 170 x 350
51.E07.D3	6.50	13.50	1.750	3.500	DC	Bronze/Copper	3.200	45 x 170 x 350
51.E07.D4	10.50	19.00	2.500	5.000	DC	Steel	5.500	55 x 200 x 400
51.E07.D4	10.50	19.00	2.500	5.000	DC	Bronze/Copper	5.500	55 x 200 x 400
51.E07.D5	13.50	23.00	3.000	6.000	DC	Bronze/Copper	7.400	65 x 230 x 410
51.E07.D6	25.00	28.00	3.500	9.000	DC	Bronze/Copper	12.500	74 x 280 x 470
51.E07.D7	28.00	32.00	4.000	9.000	DC	Bronze/Copper	12.500	74 x 280 x 470



SERIES: CIV-LWF

- Intended for tensioning electrical wires during network installation.
- Manufactured in heat-treated steel, zinc plated and passivated.



Code	Wire Ø (mm)		Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D20	5.08	10.16	800	2,000	DC	Bronze	1.360	36 x 152 x 255
51.E07.D30	7.87	13.46	800	2,000	DC	Bronze	1.700	36 x 152 x 255
51.E07.D40	13.48	18.80	1,700	3,600	DC	Bronze	3.400	46 x 180 x 290
51.E07.D50	18.80	21.80	1,700	3,600	DC	Bronze	3.400	46 x 180 x 290

SERIES: CIV-LWF-CE

- Intended for tensioning electrical wires during network installation.
- Manufactured in heat-treated steel, zinc plated and passivated.
- Features a side lock for cable lifting and placement.



Code	Wire Ø) (mm)	Load (kgf)		Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.D20-CE	5.08	10.16	800	2,000	DC	Bronze	1.480	36 x 152 x 255
51.E07.D30-CE	7.87	13.46	800	2,000	DC	Bronze	1.900	36 x 152 x 255
51.E07.D40-CE	13.48	18.80	1,700	3,600	DC	Bronze	3.500	46 x 180 x 290
51.E07.D50-CE	18.80	21.80	1,700	3,600	DC	Bronze	3.500	46 x 180 x 290

CLOSED WIRE PULLING GRIP

LINE: 51.E07.C



Code	Wire Ø (mm)		Load	(kgf)	Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.E07.C0	10.0	15.0	2.000	4.000	DC	Aluminum	3.5	75 x 160 x 230
51.E07.C1	16.0	19.0	3.000	6.000	DC	Aluminum	6.0	80 x 200 x 280
51.E07.C2	19.0	23.0	4.000	7.500	DC	Aluminum	8.5	90 x 220 x 330
51.E07.C3	23.0	29.0	5.000	9.000	DC	Aluminum	11.0	100 x 240 x 380
51.E07.C4	29.0	35.0	6.000	10.000	DC	Aluminum	14.0	110 x 280 x 420
51.E07.C5	35.0	39.0	6.000	10.000	DC	Aluminum	14.0	110 x 280 x 420
51.E07.C6	39.0	44.0	6.000	10.000	DC	Aluminum	16.0	120 x 290 x 430

For increased safety, specify the wire Ø at the time of ordering.

RADIAL LOCKING GRIPPER - 6 SCREW

- Recommended for anchoring steel cables and electrical conductors during stringing.
- Aluminum jaws provide varying ranges of use. Not suitable for OPGW cables.
- When ordering for anchoring steel cable, inform the specific cable diameter.



Code	Wire Ø (mm)		Maximum Work Load (kgf)	No. of Scews	L1	L2	Weight (kg)
	Minimum	Maximum					
51.E07.F0	14.0	16.5	6.000	6	348	635	8.7
51.E07.F1	16.5	18.5	6.000	6	348	635	8.7
51.E07.F2	18.5	21.0	6.000	6	348	635	8.7
51.E07.F3	21.0	23.0	6.000	6	348	635	8.7
51.E07.F4	23.0	25.5	6.000	6	348	635	8.7
51.E07.F5	25.5	27.5	6.000	6	348	635	8.7
51.E07.F6	27.5	30.0	6.000	6	348	635	8.7
51.E07.F7	30.0	32.5	6.000	6	348	635	8.7



RADIAL LOCKING GRIP FOR OPGW CABLES

Code: 51.E07.F

- The grip is supplied according to the specific OPGW cable diameter.
- We recommend a maximum torque of 10 kgm on the hex nuts when securing the jaw.





Code	Wire Ø (mm)		Maximum Work Load (kgf)	No. of Scews	Weight (kg)
	Minimum	Maximum			
51.E07.F	9.5	32.5	3,000	6	8.7

RADIAL LOCKING GRIPPER - 10 SCREW

Code: 51.E07.F10

- Application with conductor cables and steel cables with a maximum diameter of 36 mm.
- Manufactured specifically for the requested diameter in special aluminum or bronze alloy.
- Greater contact with the cable.
- Clamp Length: 625 mm
- Working Load: 12 TONS
- Approximate Weight: 14 kg



Code	Maximum Wire Ø (mm)	Maximum Work Load (kgf)	No. of Scews	Weight (kg)
51.E07.F10	36	10,000	10	14



RADIAL LOCKING GRIPPER - 12 SCREW

Code: 51.E07.F12

- Application with conductor cables and steel cables with a maximum diameter of 45 mm.
- Clamp manufactured specifically for the requested diameter in special aluminum or bronze alloy.
- Greater contact with the cable.
- Clamp Length: 708 mm
- Working Load: 12 TONS
- Approximate Weight: 20 kg



Code	Maximum Wire Ø (mm)	Maximum Work Load (kgf)	No. of Scews	Weight (kg)
51.E07.F12	45	12,000	12	20

STABILIZER FOR OPGW CABLE

Code: 51.E10.A2

- Also known as an anti-twist device.
- The device is attached to the cable to prevent twisting during stringing.
- It has a channel on the back allowing cable attachment when passing through pulleys.
- Weight: 11.5 kg



PULLING GRIP FOR STEEL WIRE

Lightweight and robust, the grip features parallel serrated jaws, providing a larger contact area with the wire. It is the most suitable and safest tool to use for tensioning steel wires.









DVS JAW CONTOUR (Double "V" Serrated)

Code	Steel Wire Ø (mm)		Load	(kgf)	Jaw Contour		Weight (kg)	Dimensions (mm)
	Minimum	Maximum	Working	Breaking	Туре	Material		
51.G02.C1	3	10	2.000	4.000	DVS	Steel	1.250	40 x 80 x 210
51.G02.C2	8	16	3.000	6.000	DVS	Steel	2.800	55 x 110 x 275



LEVER WINCH

Lightweight and robust, the grip features parallel serrated jaws, providing a larger contact area with the wire. It is the most suitable and safest tool to use for tensioning steel wires.



		Dimensio	ons (mm)				
Code	Α	В	С	D	Weight (kg)	Cable Ø (mm)	Cable Supply in Length (m)
CIV 1600	550	200	280	80	11	11	10 - 20 - 30 - 40 - 50
CIV 3200	680	230	330	95	21	16	10 - 20 - 30 - 40 - 50
CLAMP WITH ROLLERS FOR CONDUCTOR GROUNDING

Code: 51.G08.A2



- Manufactured in aluminum alloy.
- Intended for grounding conductors during stringing of electrical transmission lines.
- Offers secure protection against shocks caused by
- static electricity or accidental line connections.
- Weight 6 kg.



PROTECTIVE FENCING

Code: 51.G03.E5

- 3/4" tubular steel frame with six folding modules connected by riveted elbow joints.
- 1 mm thick steel plates, measuring 220 x 320 mm.
- The frame and plates have an electrostatic paint finish, highlighting the application of reflective orange paint on the front of the plates.
- The "Warning" inscriptions and the "Men at Work" symbol are applied using a silk-screen technique with synthetic enamel paint.
- Weight: 8.5 kg









Code: 51.L01.A

- Made of special heat-treated steel.
- This tool is intended to eliminate the effects of twisting cables and conductors during stringing.
- It is recommended for use in conjunction with a wire mesh grip.









Dimensions (mm)					Load	d (kgf)	Wieght (kg)
Code	А	В	C	ØD	Working	Breaking	
51.L01.A1	145	105	16	40	5,000	10,000	1.0
51.L01.A2	180	130	20	54	10,000	17,000	2.0
51.L01.A3	215	160	24	60	15,000	28,000	3.0
51.L01.A4	220	165	28	62	15,000	28,000	3.2



Designed for new overhead cable installations and can also be used for re-lashing existing networks. These lightweight and robust machines are easy to operate, allowing lashing of one or more cables of up to 56 mm in diameter and a messenger cable of up to 1/2". Cable lashers are used to install telephone, cable TV and data transmission cables.

The machines are available in three models:

- A) Large, single lashing.
- **B)** Large, double lashing.
- **C)** Small, single lashing.

Cable Lashers are packaged in a strong wooden box and include the following accessories:

- Wrench
- Phillips screwdriver
- Towrope
- Padlock



CABLE LASHER

Code: 51.M01.A1

- Large cable lasher, with a single wire reel, lashes cable of up to 56 mm in diameter.
- Type of wire: stainless steel, aluminum, polyethylene-jacket galvanized steel
- No. of wire reels: 01



- Overall dimensions of the Lashing Machine: Ø 270 x 570 mm
- Maximum cable: Ø 56 mm
- Maximum messenger cable: Ø 1/2"
- Weight: 18 kg 32 kg (with accessories)

DUAL CABLE LASHER

Code: 51.M01.A3

- Large cable lasher, with two wire reels, lashes cable of up to 56 mm in diameter.
- Type of wire: stainless steel, polyethylene-jacket galvanized steel
- No. of wire reels: 02

- Overall dimensions of the Lashing Machine: Ø 270 x 570 mm
- Maximum cable: Ø 56 mm
- Maximum messenger cable: Ø 1/2"

1/100

• Weight: 18 kg 34 kg (with accessories)

SMALL CABLE LASHER

Code: 51.M01.A4

- Small cable lasher, with a single wire reel, lashes cable of up to 48 mm in diameter. Aluminum alloy body, rotor, gears and other components mounted on double shielded bearings, compact, lightweight and easy to operate.
- Type of wire: stainless steel, aluminum, polyethylene-jacket galvanized steel
- No. of wire reels: 01





- Overall Dimensions of the Small Cable Lasher: 300 x 370 mm
- Maximum Cable: Ø 48 mm
- Maximum Messenger Cable: Ø 1/2"
- Weight: 8.5 kg 18 kg (with accessories)

Machines and Tools for Electrical Installations, Telecommunications and Offshore Operations



BLOCKS



Code	Diameter (in)	No. Of Pulleys	(mm)	(kgf)
51.M03.A1	3/8"	1	60	300
51.M03.A2	3/8"	2	60	350
51.M03.A3	3/8"	3	60	500
51.M03.B1	1/2"	1	80	500
51.M03.B2	1/2"	2	80	700
51.M03.B3	1/2"	3	80	900
51.M03.C1	5/8"	1	100	800
51.M03.C2	5/8"	2	100	1000
51.M03.C3	5/8"	3	100	1200
51.M03.D1	3/4"	1	120	1000
51.M03.D2	3/4"	2	120	1500
51.M03.D3	3/4"	3	120	1800
51.M03.E1	1"	1	130	1500
51.M03.E2	1"	2	130	2200
51.M03.E3	1"	3	130	2500
51.M03.G1	1-1/4"	1	150	2000
51.M03.G2	1-1/4"	2	150	3000
51.M03.G3	1-1/4"	3	150	3500

Hook Blocks

Code	Steel Cable Diameter (in)	Pulley Ø (in)	Hook (in)	Capacity (kgf)
51.M03.H1	5/8"	4"	7/8"	700
51.M03.I1	3/4"	5"	1"	1500
51.M03.J1	1"	8"	1-3/8"	3000

BLOCKS - HARD LOAD SERIES

- Large pulley mounted on bearings.
- Has a side port.
- Available with hook or shackle to 1,500 kgf.
- 3,000 kgf with eyelet only.





R1



Code	Cable Ø (in)	Pulley Ø (in)	R (mm)	Working Capacity (kgf)	Dimensions (mm) A x B x C	Link (mm) E x R1	Weight (kg)
51.M03.N1	5/8"	4"	9.5	1,500	300 x 110 x 70	50 x 14	4.5
51.M03.01	3/4"	6"	12	3,000	375 x 160 x 76	58 x 16	7.5
51.M03.P1	1"	8"	13.5	6,000	485 x 210 x 92	70 x 19	15.5





• Triangular lattice structure of high-resistance steel tubes in sections.



44

51.M10.A3

51.M10.A3

51.M10.A3

51.M10.A3

2,000

2,000

2,000

2,000

1,000

1,000

1,000

1,000

400

400

400

400

10

10

11

12

4 + 2 + 4

3 + 4 + 3

4 + 3 + 4

4 + 4 + 4

145

145

165

ALUMINUM MOUNTING MAST

• Square lattice structure of high-resistance aluminum tubes in sections.



Position	С
----------	---

	To	ital Capacity (k	(g)			
Code	Position A 0°	Position B 20°	Position C 20°	Total Length (m)	Sections (m)	Approximate Weight (kg)
51.M12.A1	700	500	150	7	3.5 + 3.5	74
51.M12.A1	700	500	150	8	4 + 4	81
51.M12.A1	700	500	150	9	3 + 3 + 3	92
51.M12.A2	1,400	700	300	10	4 + 2 + 4	98
51.M12.A2	1,400	700	300	10	3 + 4 + 3	98
51.M12.A3	1,400	700	300	11	4 + 3 + 4	105
51.M12.A3	1,400	700	300	12	4 + 4 + 4	115





100 TON HYDRAULIC PRESS

Code: 51.P09.A2

Used for compression of sleeves and terminals in construction and maintenance of electrical transmission and distribution lines.



Press Head

- Constructed in high quality, heat treated alloy steel.
- Single-action, spring-return hydraulic cylinder.
- Cylinder stroke: 27 mm
- Approximate dimensions: 300 x 450 x 600 mm
- Weight: 78 kg
- Die Type: DS-DA

Hydraulic Pump

- 7,000 psi
- Work pressure: 500 bar
- Hydraulic oil reservoir: 12 liters
- Approximate dimensions of the hydraulic unit: 500 x 550 x 620 mm
- Weight: 72 kg

Pressure Gauge

- Scales in kgf/cm² and tons
- Valve
- 2-way, manual, directional with pressure relief valve

Hose

 Flexible, high pressure, 4-meter hose with 3/8" NPT male-female, quick-hitch joints

Motor

- 4-stroke gasoline
- Power: 5 hp
- Speed: 3,600 rpm
- Fuel tank: 3.2 l
- Consumption: 1.4 l/h
- Oil pan: 0.5 l
- Starting system with retractable pull cord







120 TON HYDRAULIC PRESS

Code: 51.P09.A4

Used for compression of sleeves and terminals in construction and maintenance of electrical transmission and distribution lines.



Press Head

- Constructed in heat treated alloy steel.
- Single-action, spring-return hydraulic cylinder.
- Cylinder stroke: 27 mm
- Approximate dimensions: 300 x 450 x 600 mm
- Weight: 88 kg
- Die Type: DS-DA

Hydraulic Pump

- 10,000 psi
- Work pressure: 700 bar
- Hydraulic oil reservoir: 12 liters
- Approximate dimensions of the hydraulic unit: 500 x 550 x 620 mm
- Weight: 59 kg

Pressure Gauge

- Scales in P.S.I.
- Valve
- 2-way, manual, directional with pressure relief valve

Hose

 Flexible, high pressure, 4-meter hose with 3/8" NPT male-female, quick-hitch joints

Motor

- 4-stroke gasoline
- Power: 5 hp
- Speed: 3,600 rpm
- Fuel tank: 3.2 I
- Consumption: 1.4 l/h
- Oil pan: 0.5 l
- Starting system with retractable pull cord





150 TON HYDRAULIC PRESS

Code: 51.P09.A7

Used for compression of sleeves and terminals in construction and maintenance of electrical transmission and distribution lines.



Press Head

- Constructed in heat treated alloy steel.
- Double-action hydraulic cylinder.
- Cylinder stroke: 27 mm
- Approximate dimensions: 300 x 450 x 600 mm
- Weight: 110 kg
- Die Type: DS-DA

Hydraulic Pump

- 10,000 psi
- Work pressure: 700 bar
- Hydraulic oil reservoir: 12 liters
- Approximate dimensions of the hydraulic unit: 500 x 550 x 620 mm
- Weight: 59 kg

Pressure Gauge

- Scales in P.S.I.
- Valve
- 3-way, manual, directional with pressure relief valve

Hose

 Two flexible, high pressure, 4-meter hoses with 3/8" NPT male-female, quick-hitch joints

Motor

- 4-stroke gasoline
- Power: 6 hp
- Speed: 3,600 rpm
- Fuel tank: 3.2 I
- Consumption: 1.4 l/h
- Oil pan: 0.5 l
- Starting system with retractable pull cord





HEXAGONAL COMPRESSION DIES

- We manufacture dies according to specific compression needs.
- Material: Special hardened steel
- Approximate weight: 10 kg





STEEL CORE

Туре	A (mm)	B (mm)	C (mm)
DS - 7	11.68	10.11	50.80
DS - 8	14.68	12.70	44.45
DS - 9	17.45	15.11	38.10
DS - 10	18.54	16.05	38.10
DS - 11	20.22	17.50	31.75
DS - 12	23.37	20.22	31.75

ALUMINUM CORE

Туре	A (mm)	B (mm)	C (mm)
DA - 7	29.36	25.43	76.20
DA - 8	32.56	28.19	76.20
DA - 9	37.34	32.33	76.20
DA - 10	41.38	36.22	76.20
DA - 11	46.43	40.21	76.20
DA - 12	52.78	45.72	76.20
DA - 13	57.40	49.71	63.50
DA - 14	62.23	53.87	63.50

B



PULLEY FOR STRINGING LIGHTNING ARRESTER CABLES

Code: 51.R03.F1

- Made of aluminum alloy, with a sheave mounted on bearings.
- Rotating base.





	Load Cap	acity (kgf)			
Code	Working	Breaking	L1 (mm)	Pulley Ø (mm)	Weight (kg)
51.R03.F1	1,200	3,200	340	170	3
51.R03.F2	3,000	5,000	500	270	9.7

PULLEY FOR STRINGING CABLES ON CROSSBEAMS

Code: 51.R03.G2

- Made of aluminum alloy, with a sheave mounted on bearings.
- Rotating base.
- Working load: 1,200 kgf
- Breaking load: 3,200 kgf
- Weight: 3 kg





PULLEY FOR STRINGING CABLES ON CROSSBEAMS

Code: 51.M03.R2

- Made of aluminum alloy, with a sheave mounted on bearings.
- Rotating base.
- Working load: 750 kgf
- Breaking load: 3,200 kgf
- Weight: 3 kg



PULLEY FOR STRINGING PIPE-TYPE CABLES

Code: 51.R03.L1

- Clamping system allows rapid placement at any point on a post.
- Galvanized steel frame
- Aluminum alloy sheave.
- Working load: 500 kgf
- Breaking load: 1000 kgf
- Weight: 12 kg







PULLEY FOR SECONDARY NETWORKS

Code: 51.R03.J1 • Aluminum sheave and steel frame. • Used on the secondary network stirup for stringing cables up to 400 AWG. • Working load: 200 kgt • Breaking load: 400 kgt • Weight: 0.8 kg • More that the secondary network stirup • Weight: 0.8 kg • More that the secondary network stirup • More that the secondary stirup stiru

PULLEY FOR RURAL ELECTRIFICATION

Code: 51.R03.K1

- Aluminum sheave with steel frame and hook.
- Used in stringing cables up to 4/0 AWG.
- Working load: 200 kgf
- Breaking load: 400 kgf
- Weight: 1 kg





PULLEY FOR WIRE STRINGING WITH GROUNDING ROLLER

Code: 51.R03.A1.003

- Suitable for jobs where constant grounding is necessary during stringing of conductors.
- The pulley has a vulcanized synthetic rubber coated sheave, providing the same characteristics as pulley 51.R03.A1.
- Recommended for stringing OPGW cables.





PULLEY FOR 1 CONDUCTOR

- Pulley for stringing one conductor.
- Aluminum alloy pulley, coated with vulcanized synthetic rubber using high pressure molding or a rubber belt.
- Bearing mounted.
- Frame in galvanized steel or painted.





	Dimensions (mm)			Load (kgf)			
Code	ØD	R	Α	Working	Breaking	Weight (kg)	General Dimensions (mm)
51.R03.A1	680	28	100	6,000	10,000	25	190 x 680 x 915
51.R03.B1	420	20	80	4,500	8,000	14	170 x 420 x 640
51.R03.C1	370	20	70	3,500	6,000	8	150 x 370 x 540
51.R03.D1	280	11	50	2,500	4,500	5	110 x 280 x 470
51.R03.E1	555	23	90	5,000	9,000	20	180 x 555 x 805
51.R03.M1	775	31	100	6,000	10,000	27	190 x 775 x 1,115
51.R03.L1	1,000	28	102	2,500	4,500	29	190 x 1,000 x 1,200



PULLEY FOR 2 AND 3 CONDUCTORS

- Pulley for stringing two or three conductors.
- Aluminum alloy pulleys, coated with vulcanized synthetic rubber using high pressure molding or a rubber belt.
- Bearing mounted.
- Frame in galvanized steel or painted.







	Dimensions (mm)			Load (kgf)			
Code	ØD	R	Α	Working	Breaking	Weight (kg)	General Dimensions (mm)
51.R03.A2	680	28	305	7,000	13,000	100	680 x 400 x 1,170
51.R03.B2	420	20	238	5,000	9,000	45	420 x 325 x 805
51.R03.E2	555	23	270	6,000	11,000	75	555 x 370 x 1,020

PULLEY FOR 4 CONDUCTORS

- Pulley for stringing four conductors.
- Modular cast iron central pulley, with other pulleys made in high strength aluminum alloy.
- Aluminum pulleys, coated with vulcanized synthetic rubber using high pressure molding or a rubber belt.
- Bearing mounted.







	Dimensions (mm)			Load (kgf)			
Code	ØD	R	Α	Working	Breaking	Weight (kg)	General Dimensions (mm)
51.R03.A4	680	28	580	8,000	15,000	150	680 x 680 x 1,150
51.R03.B4	420	20	400	6,000	10,000	70	420 x 520 x 750
51.R03.E4	555	23	525	7,000	13,000	130	555 x 620 x 1,010



PULLEY FOR 6 CONDUCTORS

 Pulley for str Central pulley are made of 1 The aluminur rubber using Bearing mou Frame in galv 	inging six conductor y made of modular c high-resistance alum m pulleys are coated high pressure moldi nted. vanized steel or paint	s. ast-iron, the oth inum alloy. with vulcanized ng or a rubber ed.	ner pulleys I synthetic belt.		QØ		
	Dime	ensions (mr	n)	Load	(kgf)		
Code	ØD	R	Α	Working	Breaking	Weight (kg)	General Dimensions (mm)
	780	28	580	9,000	15,000	230	780 x 780 x 1,510

BUNDLE CONDUCTOR STRINGING BOARD

• Steel structure with a sheave balancing system.



Code	Number of Conductors
51.A12.A2	2 Conductors
51.A12.A3	3 Conductors



Code	Number of Conductors
51.A12.A4	4 Conductors
51.A12.A6	6 Conductors



MANUAL LEVER HOIST

Code: 51.T09.A

- Steel plate frame, with anti-corrosive treatment.
- Moving parts forged in heat-treated alloy steel.
- High-strength calibrated chain links.



Code	A (mm)	B (mm)	C (mm)	Capacity (kgf)	Weight (kg)
51.T09.A1	2.800	130	22	750	7
51.T09.A2	3.600	170	27	1,500	10
51.T09.A3	4.600	200	33	3,000	14
51.T09.A4	5.200	250	28	4,500	20
51.T09.A5	5.800	280	42	6,000	25



STEEL CABLE CUTTER

Code: 51.T03.B

• Blades forged in special heat-treated steel for improved performance and durability.



Code	Cable Ø (mm)	Length (mm)	Weight (kg)	Dimensions (mm)
51.T03.B4	10	620	2.500	620 x 150 x 35
51.T03.B5	13	770	3.950	770 x 160 x 39
51.T03.B6	16	920	5.800	920 x 170 x 45
51.T03.B7	19	1070	8.200	1070 x 180 x 50

CANVAS BUCKET

Code: 51.B05.A2

- Used to raise and lower light materials during installation of overhead and underground networks. Made in canvas with a leather reinforced base, the bucket has a ring around the mouth to keep it open and a handle for transport.
- Overall dimensions: Ø 300 X 350 mm
- Weight: 900 g



TOOL BAG

Line: 51.B04.A

- Used to transport tools required for fieldwork.
- Made in high-quality canvas with a reinforced leather base and padlock closure.

Code	Dimensions (mm)
51.B04.A1	550 x 400 x 240
51.B04.A2	450 x 300 x 240



SHOULDER BAG

Code: 51.B04.A3

- Used to transport small tools that are frequently used during fieldwork. Made in canvas, reinforced with leather around the edges, the bag has a leather shoulder strap.
- Overall dimensions: 250 X 250 X 60 mm

• Weight: 350g







LASHING WIRE

Code: 52.A03.C1

- Supplied in coils with dimensions suitable for use in the lashing machine.
- Provides messenger cable support while installing aerial networks.
- Coil Dimensions: Ø 140 x Ø 50 x 40 mm
- Polyethylene-jacket galvanized steel
- Wire gauge: AWG 18
- Weight: 1.6 kg





Code: 51.C06.A1

 Used to pull the lashing machine during aerial installations. Consists of a rope with two quick-hitch carabiners at the ends.



CABLE UNWINDER

Code: 51.D01.A1

- Used in a wide range of wire winding and unwinding jobs. The central hub is mounted on bearings, ensuring smooth and friction-free operation.
- Overall dimensions: 1.50 x 0.70 x 0.70 m
- Wheel Ø: 0.70 m
- Weight: 44 kg





SWIVEL

Line: 51.D02.B1

 Used in networks installations to prevent twisting electrical and telephone cables during pulling operations. Manufactured with high quality steel, swivels are fitted with bearings providing smooth and friction-free operation.

Code	Model	Working Load (kg)	Dimensions (mm)	Weight (kg)
51.D02.B1	Cylindrical	1,000	Ø 32 x 120	0.4
51.D02.B2	Cylindrical	2,000	Ø 44 x 150	0.9
51.D02.B3	Cylindrical	3,000	Ø 56 x 200	1.4



AERIAL CABLE GUIDE

Code: 51.G05.A1

- Very useful in overhead cable installations when used in conjunction with the lashing machine.
- Mounted on the messenger, in front of the lashing machine, and pulled from the ground, it places the cable close to the messenger in order to facilitate lashing.
- Steel frame with aluminum rollers.
- Overall dimensions: 530 x 340 x 90 mm
- Roller dimensions: Edge Ø 70 mm, Center Ø 35 mm, Width 65 mm
- Weight: 3.8 kg



ERIBAND MACHINE

Code: 51.M01.B1

- Used to attach stainless steel tape to posts during installation of overhead networks. This machine performs tensioning and cutting of steel tape quickly and easily.
- Weight: 1.5 kg







Klein Tools was founded in 1857 by an industrious German immigrant, Mathias Klein, who began in the hand tool business when a broken side-cutting pliers was brought to his forge shop by a telegraph lineman. Mathias repaired the pliers by forging and finishing a new half for the tool and riveting it to the old half. Soon the lineman returned because the other original half of the pliers had broken and needed replacement. Mathias forged and finished the second half of the pliers and riveted it to the other replacement half – creating the first complete Klein pliers.

To this day, Klein Tools is proudly owned and managed by the Klein family. Over 150 years of hard work and dedication has earned Klein the reputation of supplying only the finest quality products for users of professional hand tools and occupational protective equipment.





Contents



Cable & Bolt Cutters Pages XXX



Insulated ToolsPages XXX



Wrenches Pages XXX



Lineman Buckets & AccessoriesPages XXX







Cable Cutters

KLEIN TOOLS A = 4

Utility Cable Cutter

- Forged steel with black-oxide finish for long life.
- Shear-type hook jaws grab and hold cable
- while shear-cutting action makes clean cu
- Beveled tips for positive mating.
- Hinge bolt with pin-set nut for proper bla

Overall Length 16-3/4" (425 mm)

Non-slip vinyl grips.

Cat. No.

63035

e its. de tens	sion.	10/10 0155%)	
			63035
	MCM Cable-Cutting Maximum Capacity*	Handle Color	Weight
	350 copper, 350 aluminum	red	1.70 lbs.

* Not designed for cutting steel or ACSR.

Wire Rope Cutter

- Shear type blades for square, clean cu
- All forged construction; USA Steel.
- Non-slip vinyl grips.
- Hinge bolt with pin-set nut for proper blade tension.
- Cuts wire up to 9/32" (7 mm) and Stoffel® container seals.

uts.	O. C.	
		63035SC

Cat. No.	Overall Length	Cuts	Maximum Cutting Capacity	Handle Color	Weight
63035SC	18" (457 mm)	Stoffel Seals®	9/32" (7 mm) wire rope and cables	red	2.00 lbs.

Stoffel® is a registered trademark of Stoffel Seals Corporation.



63041TH	25-1/2" (648 mm)	1-3/8" (35 mm) diameter	500 copper, 750 aluminum	5.25 lbs.
63045	32" (813 mm)	1-3/4" (44 mm) diameter	1000 copper, 1200 aluminum	8.00 lbs.
Replacement	t Cable Cutter Heads ((complete)	Fits Klein Cat. No.	
63081			63041	2.05 lbs.
63090			63045	3.30 lbs.

All dimensions are in inches and (millimeters).

AWARNING: Do NOT use to cut steel or ACSR.

AWARNING: Always wear approved eye protection.

AWARNING: NOT insulated. Plastic-dipped or slip-on plastic handles are NOT intended for protection against electrical shock.





Communications Cable Cutter



Cat. No.	Overall Length	Communications Cable-Cutting Maximum Capacity	Soft Cable-Cutting Maximum Capacity	Weight
63047	37" (940 mm)	900-pair soft copper and aluminum	up to 2-1/4" (57 mm) diameter	8.55 lbs.
Replacem	nent Cable Cutt	ter Heads (complete)	Fits Klein Cat. No.	
63110			63047	3.50 lbs.

Ratcheting Cable Cutters

- High-leverage ratchet mechanism for single-handed cutting of copper and aluminum cables, leaving no burrs or sharp edges.
- Patented two-step ratchet mechanism requires fewer strokes per cut.
- Quick release lever opens blades easily in every cutting position. (Allows removal of the cable before completion of cut).
- Precision ratcheting mechanism holds cable tight and allows rapid, straight cuts with minimum effort.
- Hardened steel cutting blades for lasting strength and sharpness.
- Plastic covered handles with hand guards for comfort and firm grip.
- Locking lever keeps handles closed for easy transport; fits in a toolbox or bag.
- One-year warranty.







	MCM Maximum Cable Capacity				T use to cut steel or	ACSR.	
Cat. No.	Copper	Aluminum	ACSR	Communication Cable	Overall Length	Handle Color	Weight
63060	400 MCM (185 mm ²)	600 MCM (300 mm ²)	—	1-1/8" (28 mm)	10-1/4" (260 mm)	red	1.32 lbs.
63711	600 MCM (300 mm ²)	750 MCM (400 mm ²)	—	1-1/8" (28 mm)	11-1/2" (292 mm)	red	2.00 lbs.
63750	1000 MCM (500 mm ²) Frequent Use: 750 MCM (400 mm ²)	1000 MCM (500 mm ²) Frequent Use: 750 MCM (400 mm ²)	_	2-1/16" (52 mm)	12-1/8" (308 mm)	red	1.76 lbs.

All dimensions are in inches and (millimeters).

AWARNING: Always wear approved eye protection.

AWARNING: NOT insulated. Plastic-dipped or slip-on plastic handles are NOT intended for protection against electrical shock.



Cable Cutters



ACSR Ratcheting Cable Cutter

- Cutting inserts are easily replaced by simply removing 3 screws per blade.
- Capacity: 477 MCM ACSR 1-1/4" (32 mm) Ø CU-AL Stranded 1" (25 mm) Ø CU Solid 1/2" (13 mm) Ø Guy Strand (NOT FOR EHS)
- Tool can be locked when not in use.
- High-leverage ratcheting mechanism for easier cutting.
- Plastic covered handles with hand guards for comfort and firm grip.
- At a length of just under 14" tool can be carried in a tool pouch.
- Cleanly cuts 336 MCM Linnet ACSR and 2/0 triplex steel messenger cable (Cat. No. 63607).



MCM Maximum Cable Capacity							
Cat. No.	ACSR	Stranded Aluminum & Copper	Solid Copper	Guy Strand	Length	Handle Color	Weight
63607	336 MCM (170 mm ²)	600 MCM (300 mm ²)	400 MCM (185 mm ²)	—	10-1/4" (260 mm)	yellow	1.50 lbs.
63800ACSR	477 MCM (273 mm ²)	1-1/4" (32 mm)	1" (25 mm)	1/2" (13 mm)	13-3/4" (349 mm)	red	3.20 lbs.
Replacement Cutting Inserts (with set of 6 screws)			Fits Klein Cat. No.				
63858			63800ACSR				





General-Purpose Insulated 22-Piece Tool Kit

- Case includes three pallets with customfitted pockets for each tool, piano-hinged cover has both a combination lock and two key-locked latches for security, storage space behind the pallets to keep important papers and accessory items.
- Inside dimensions: 7-3/4" W x 14-1/4" D x 8" H (451 mm x 362 mm x 203 mm).
- Overall dimensions: 18-7/8" W x 15-3/8" D x 8-1/4" H (479 mm x 391 mm x 210 mm).
- Replacement case (Cat. No. 33537) available.

See individual tool listings for more details.

Cat. No.

33527



Weight

24.30 lbs. (11 kg)

Kit Contains Cat. No. Description D2000-9NE-INS insulated side-cutting pliers 12098-INS insulated universal side-cutting pliers D2000-28-INS insulated diagonal-cutting pliers D2000-48-INS insulated diagonal-cutting pliers - angled head insulated heavy-duty long-nose pliers - side-cutting D203-8N-INS D220-7-INS insulated diagonal-cutting pliers - tapered nose D203-6-INS insulated long-nose pliers - side-cutting D203-7-INS insulated long-nose pliers - side-cutting 601-4-INS insulated cabinet-tip - round-shank screwdriver (3/16" x 4") 601-7-INS insulated cabinet-tip - round-shank screwdriver (3/16" x 7") ____

612-4-INS	insulated cabinet-tip – round-shank screwdriver (1/8" x 4")
602-4-INS	insulated cabinet-tip – round-shank screwdriver (1/4" x 4")
602-7-INS	insulated cabinet-tip – round-shank screwdriver (5/16" x 7")
602-8-INS	insulated cabinet-tip – round-shank screwdriver (3/8" x 8")
633-4-INS	insulated Phillips-tip – round-shank screwdriver (#1 x 4")
603-4-INS	insulated Phillips-tip – round-shank screwdriver (#2 x 4")
633-7-INS	insulated Phillips-tip – round-shank screwdriver (#3 x 7")
D502-10-INS	insulated pump pliers
11045-INS	insulated wire stripper/cutter
63050-INS	insulated high-leverage cable cutter
1571-INS	insulated lineman's skinning knife
1005-INS	insulated crimping/cutting tool
33537	extra-sturdy, bright-yellow case

All dimensions are in inches and (millimeters).

AWARNING: Only use tools that are marked with the official international 1000-volt rating symbol shown below, if there is any chance that the tools will make contact with an energized source.

1000 V

AWARNING: Wear approved eye protection. Always inspect your tools before use. Do not use if orange coating cracks, breaks or becomes damaged. Destroy tool if white layer shows through orange layer.

AWARNING: Do NOT use screwdrivers to pry or chisel.

AWARNING: Do NOT touch uninsulated portion of the tool or any conductive object when either might contact an energized source.

AWARNING: Whenever possible, always de-energize lines and equipment prior to working on or around them. Klein insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source.

AWARNING: Because moisture, films, or other surface contaminants are conductive, Klein insulated tools must be kept clean, dry, and free of any surface contaminants.

Insulated Tool Kits



Utility Insulated 13-Piece Tool Kit

- The custom case includes two pallets with custom-fitted pockets for each tool, piano-hinged case cover has both a combination lock and two key-locked latches for security, storage space behind the pallets to keep important papers and accessory items.
- Inside dimensions: 17-3/4" W x 14-1/4" D x 8" H (451 mm x 362 mm x 203 mm).
- Overall dimensions: 18-7/8" W x 15-3/8" D x 8-1/4" H (479 mm x 391 mm x 210 mm).
- Replacement case (Cat. No. 33535) available.

0.	Kit Contains		Weight
			20.05 lbs. (9 kg)
	Cat. No.	Description	
	D2000-9NE-INS	insulated side-cutting pliers	
	D2000-28-INS	insulated diagonal-cutting pliers	
	D2000-48-INS	insulated diagonal-cutting pliers – angled head	
	D203-8-INS	insulated heavy-duty long-nose pliers – side-cutting	
	602-4-INS	insulated cabinet-tip –	-
		round-shank screwdriver (1/4" x 4")	
	602-7-INS	insulated cabinet-tip –	
		round-shank screwdriver (5/16" x 7")	
	602-8-INS	insulated cabinet-tip –	
		round-shank screwdriver (3/8" x 8")	
	633-4-INS	insulated Phillips-tip –	
		round-shank screwdriver (#1 x 4")	

☆ 100 .(9 kg)	o v	33525
	Cat. No.	Description
	603-4-INS	insulated Phillips-tip –

	•
603-4-INS	insulated Phillips-tip –
	round-shank screwdriver (#2 x 4")
633-7-INS	insulated Phillips-tip –
	round-shank screwdriver (#3 x 7")
63050-INS	insulated high-leverage cable cutter
D502-10-INS	insulated pump pliers
1571-INS	insulated lineman's skinning knife
33535	extra-sturdy, bright-yellow case

Utility Insulated 13-Piece Tool Kit

- The light, compact, soft roll-up carry case provides protective storage with custom-fitted pockets for each tool.
- Kit includes a padded, adjustable shoulder strap.
- Case dimensions:

Cat. N 33525

- Opened 24-1/2" x 24-1/2" (622 mm x 622 mm). Closed 24-1/2" x 5-1/2" (622 mm x 140 mm).
- Replacement roll-up case (Cat. No. 33535SC) available.

🔶 1000 V

Cat. No.

603-4-INS

633-7-INS

63050-INS

1571-INS

33535SC

D502-10-INS



Cat. No.	Kit Contains		Weight
33525SC			9.75 lbs. (4.4 kg)
	Cat. No.	Description	
	D2000-9NE-INS	insulated side-cutting pliers	
	D2000-28-INS	insulated diagonal-cutting pliers	
	D2000-48-INS	insulated diagonal-cutting pliers – angled head	
	D203-8-INS	insulated heavy-duty long-nose pliers - side-cutting	
	602-4-INS	insulated cabinet-tip – round-shank screwdriver (1/4" x 4")	
	602-7-INS	insulated cabinet-tip – round-shank screwdriver (5/16" x 7")	
	602-8-INS	insulated cabinet-tip – round-shank screwdriver (3/8" x 8")	
	633-4-INS	insulated Phillips-tip – round-shank screwdriver (#1 x 4")	

All dimensions are in inches and (millimeters).

AWARNING: Only use tools that are marked with the official international 1000-volt rating symbol shown below, if there is any chance that the tools will make contact with an energized source.

WARNING: Wear approved eye protection. Always inspect your tools before use. Do not use if orange coating cracks, breaks or becomes damaged. Destroy tool if white layer shows through orange layer.

AWARNING: Do NOT use screwdrivers to pry or chisel.

AWARNING: Do NOT touch uninsulated portion of the tool or any
conductive object when either might contact an energized source.

Description

insulated Phillips-tip – round-shank screwdriver (#2 x 4")

insulated Phillips-tip – round-shank screwdriver (#3 x 7")

insulated pump pliers

insulated high-leverage cable cutter

insulated lineman's skinning knife

roll-up soft case with shoulder strap

WARNING: Whenever possible, always de-energize lines and equipment prior to working on or around them. Klein insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source.

WARNING: Because moisture, films, or other surface contaminants are conductive, Klein insulated tools must be kept clean, dry, and free of any surface contaminants.



Insulated 8-Piece Tool Kits

- Highly durable, black nylon case features: coil-zipper closure, polypropylene handles, custom-fitted tool pockets.
- Overall case dimensions are: 15-1/2" W x 11" D x 2-1/2" H
 - (394 mm x 279 mm x 64 mm).
- Replacement case (Cat. No. 33536) available.

See individual tool listings for more details.



Premium Insulated 8-Piece Tool Kit

Cat. No.	Kit Contains		Weight
33529			6.90 lbs.
	Cat. No.	Description	
	D2000-9NE-INS	insulated side-cutting pliers	
	D2000-48-INS	insulated diagonal-cutting pliers	
	D203-8N-INS	insulated heavy-duty long-nose pliers – side-cutting	
	601-6-INS	insulated cabinet-tip – round-shank screwdriver (3/16" x 6")	
	602-4-INS	insulated cabinet-tip – round-shank screwdriver (1/4" x 4")	
	603-4-INS	insulated Phillips-tip – round-shank screwdriver (#2 x 4")	
	63050-INS	insulated high-leverage cable cutter	
	11055-INS	insulated wire stripper/cutter	
	33536	heavy-duty polyester case	

All dimensions are in inches and (millimeters).

AWARNING: Only use tools that are marked with the official international 1000-volt rating symbol shown below, if there is any chance that the tools will make contact with an energized source.

🕂 1000 V

WARNING: Wear approved eye protection. Always inspect your tools before use. Do not use if orange coating cracks, breaks or becomes damaged. Destroy tool if white layer shows through orange layer.

AWARNING: Do NOT use screwdrivers to pry or chisel.



contaminants.

AWARNING: Do NOT touch uninsulated portion of the tool or any

AWARNING: Whenever possible, always de-energize lines and equipment prior to working on or around them. Klein insulated tools are designed only to reduce

the chance of injury where the tool may make contact with an energized source.

AWARNING: Because moisture, films, or other surface contaminants are conductive, Klein insulated tools must be kept clean, dry, and free of any surface

conductive object when either might contact an energized source.

Lineman Wrenches



Bell System Type

- Similar to standard lineman's wrench, but with end openings sized to NEMA hardware specifications.
- Silver painted finish.



3146B

3146

Cat. No.	Description	Length	Weight (lbs.)
3146B	Large end has 1-1/16" and 1-3/16" openings. Small end has 11/16" and 7/8" openings.	13" (330 mm)	1.76

Lineman's Wrenches

- Forged from special bar steel and heat-treated for long life.
- Each end has two different size openings.
- Hole is provided at larger end for turning-in standard pole steps.
- Wrench is suited for use on heavy three-bolt guy clamps on which clearance is limited.
- Dark blue painted finish (small end is painted silver on Cat. No. 3146A).

Cat. No.	Description	Length	Weight (lbs.)
3146	For 5/8" hardware. Large end has 29/32" and 1-3/32" openings. Small end has 5/8" and 13/16" openings.	13" (330 mm)	1.85
3146A	For 3/4" hardware. Large end has 1-1/16" and 1-5/16" openings. Small end has 5/8" and 7/8" openings.	13" (330 mm)	1.70

Insulated Lineman's 4-in-1 Box Wrench



KT223X4-INS

- Chrome plated finish resists corrosion.
- "See-through" insulating handle confirms metal ends are not connected (Cat. No. KT223X4-INS).
- 1/2", 9/16", 5/8" and 3/4" sizes in one tool; 12-point sockets.
- Reverse ratcheting action by reversing switches on each end of the wrench.
- Textured grooves in handle prevent slipping.
- Solid, one piece design (Cat. No. KT223X4).

Cat. No.	Socket Size	Length	Weight (lbs.)
KT223X4-INS	1/2", 9/16", 5/8" & 3/4"	9" (229 mm)	.70







Vinyl Equipment Bags

- Wide bag opening easily accommodates helmets and other equipment.
- Two large, outside pockets with Velcro[®] fastening (Cat. No. 5182BLA).
- Durable, double-stitched plastic bottom.
 Webbing extends down side of bag from handles and shoulder strap for extra support & durability.
- Right-sized rain flap with Velcro[®] fastening.
- Adjustable, padded shoulder strap included.







VELCRO[®] is a registered trademark of Velcro Industries B.V.

5182BLA

Cat. No.	Exterior Pockets	Shoulder Strap	Color	Length	Height	Width	Weight (lbs)
5182BLA	2	Yes	black	24" (610 mm)	20" (508 mm)	10" (254 mm)	7.00
51810RA	1	Yes	orange	24" (610 mm)	20" (508 mm)	10" (254 mm)	7.00

Lineman Backpack

- Wide opening easily accommodates helmets, belts, and other equipment.
- Large front pocket for separate storage of gaffs, rubber gloves or other equipment.
- Durable, doulbe stitched plastic bottom with drain holes.
- Rain flap for top of pack.
- Adjustable padded shoulder straps with adjustable waist strap.
- Padded back area.

Cat. No.	Length	Width	Height/ Depth	Interior Pockets	Exterior Pockets	Weight (lbs.)
51850RA	18" (457mm)	10" (254 mm)	23" (584 mm)	1	3	5.80



51850RA





Leather Tool Bags

Deluxe Leather Bags

- Rugged tool bag made of extra-heavy leather.
- Removable, padded shoulder strap.
- Three-ply bottom with steel studs.
- Retaining straps extend around bag for extra support.

Cat. No.	Length	Width	Height/Depth	Weight (lbs.)
5108-18	18" (457 mm)	7" (178 mm)	8" (203 mm)	4.77
5108-20	20" (508 mm)	7" (178 mm)	8" (203 mm)	5.17
5108-24	24" (610 mm)	7" (178 mm)	8" (203 mm)	5.50





Lineman Buckets



5109	12" (305 mm)	15" (381 mm)	N/A	2.06
5109P	12" (305 mm)	15" (381 mm)	one 8" x 8" (203 mm x 203 mm) inside pocket	2.12
5109S	12" (305 mm)	15" (381 mm)	swivel snap (Cat. No. 2012)	2.35
5109PS	12" (305 mm)	15" (381 mm)	one 8" x 8" (203 mm x 203 mm) inside pocket and swivel snap (Cat. No. 2012)	2.40

9" (229 mm)

5106S

70

inside pockets swivel snap (Cat. No. 2012)

1.80

14" (356 mm)

Lineman Buckets



Vinyl Bucket Top • Top cover for canvas bucket designed to keep the elements out and tools securely inside. • Compatible with Klein Tools 5104 and 5109 series buckets. Attaches with VELCRO[®]. • Includes safety strap loop to ensure connection to bucket. Bucket not included. 51T0P Cat. No. Diameter Height Weight (lbs) 51TOP 12.5" (318 mm) 3.5" (89 mm) 4 **Tapered-Wall Buckets Heavy-Duty Tapered-Wall Bucket Additional Features:** No. 6 canvas. Additional Features: Black molded No. 4 canvas. polypropylene bottom. Black molded • Rope handle. polypropylene bottom. Rope handle. • Riveted leather glove strap. Equipped with Cat. No. 2012 swivel snap hook. 5103S 5113 Top Diameter Weight (lbs.) Cat. No. Bottom Height Extra Cat. No. Bottom Diameter Height Extra Features Weight (lbs.) Top Diameter Diameter Features swivel snap (Cat. No. 2012) 5103S 12" (305 mm) 9" (229 mm) 12" (305 mm) 1.95 12" (305 mm) 9" (229 mm) 5113 13" (330 mm) 1.55 swivel snap (Cat. No. 2012) 5113S 12" (305 mm) 9" (229 mm) 13" (330 mm) 1.84

Heavy-Duty Tapered-Wall Buckets with Pockets

Additional Features:

- No. 4 canvas.
- Black molded polypropylene bottom.
- Rope handle.
- Riveted leather glove strap.
- Equipped with Cat. No. 2012 swivel snap hook.

Cat. No.	Top Diameter	Bottom Diameter	Height	Outside Pockets	Extra Features	Weight (Ibs.)
5171PS	12" (305 mm)	9" (229 mm)	12" (305 mm)	4 outside pockets	swivel snap (Cat. No. 2012)	2.20
5172PS	12" (305 mm)	9" (229 mm)	12" (305 mm)	15 inside pockets	swivel snap (Cat. No. 2012)	2.35



Oval Bucket with Pockets

Additional Features:

- No. 6 canvas.
- Black molded polypropylene bottom.
- Sisal-rope handle.
- Tripod suspension rope for greater stability.
- Equipped with Cat. No. 2012 swivel snap hook.

Cat. No.	Length	Width	Height	Pockets	Extra Features	Weight (lbs.)
5144S	14" (356 mm)	7" (177 mm)	10" (254 mm)	15 inside pockets	swivel snap (Cat. No. 2012)	2.17
5152S	14" (356 mm)	7" (177 mm)	10" (254 mm)	26 inside pockets & 15 outside pockets	swivel snap (Cat. No. 2012)	2.46



5144S

5152S

Lineman Buckets



. Since 185⁻



AWARNING:

- Inspect for damage before each use.
- Remove from service if bucket shows signs of wear
- Never exceed the working load limit.
- Completely close top before each use.

A strong reinforced web strap extends down the side of the bucket for extra weight capacity. **Heavy Duty Top Closing Bucket** Holds 5 gallon bucket LOAD LIMIT LOAD LIMIT 150 LBS (68kg) 150 LBS (68kg) Inspect before each use spect before each us 5104CLR17 5104CLR22 LOAD LIMIT 150 lbs. (68kg)

Load rated 150 lbs.

- Top of bucket zips closed.
- 14" diameter accommodates standard 5 gallon bucket.
- Body constructed of heavy-dutyNo. 1 canvas.
- Web strap extends down the side of the bucket.
- Leather reinforced bottom extends 3" up the side.
- Durable steel rim.



Cat. No.	Diameter	Height	Weight
5104CLR17	14" (356 mm)	17" (439 mm)	6.70 lbs. (3.04 kg)
5104CLR22	14" (356 mm)	22" (559 mm)	6.95 lbs. (3.15 kg)

All Purpose Work Bucket

- Load rated: 150 lbs.
- Web strap extends downthe side of the bucket.
- Heavy duty plastic bottomwith drain holes.

Cat. No.	Diameter	Height	Weight
5109SLR	12" (305 mm)	15" (381 mm)	5.95 lbs. (2.70 kg)

5109SLR
Lineman Buckets



Aerial-Basket Oval Bucket with 15 Interior Pockets

Additional Features:

- No. 6 canvas.
- Black molded polypropylene bottom.
- Two nylon 66 polymer hooks (Cat. No. 5144H) included with Cat. No. 5144.

Cat. No.	Length	Width	Height	Pockets	Extra Features	Weight (lbs.)
5144	14" (356 mm)	7" (177 mm)	10" (254 mm)	15 inside pockets	two hooks (Cat. No. 5144H)	2.01
5144B	14" (356 mm)	7" (177 mm)	10" (254 mm)	15 inside pockets		1.5



Hard Body Oval Buckets

- Fabric constructed of rugged denier polyester to resist wear and tear on the jobsite (Cat. No. 5144BHB140S). •
- Black molded polypropylene bottom with drain holes.
- Cat. No. 5144H hooks sold separately.









	Cat. No.	Pockets	Handle	Color	Length	Height	Width	Weight (lbs)
	5144BHB	14	No	orange	14" (356 mm)	10" (254 mm)	7" (178 mm)	2
	5144BHHB	14	Yes	orange	14" (356 mm)	10" (254 mm)	7" (178 mm)	2
4BHB	5144BHB140S	29	Yes	black	14" (356 mm)	10" (254 mm)	7" (178 mm)	3

Hard Body Oval Bucket with Knife Sheath

- Includes leather skinning knife sheath and 14 other interior pockets.
- Orange, non-conductive plastic exterior maintains bucket shape.
- Fabric constructed of rugged denier polyester to resist wear and tear on the jobsite.
- Black molded polypropylene bottom with drain holes.
- Cat. No. 5144H hooks sold separately.



Knife Sheath inside of Cat. No. 5144HBS

Cat. No.	Interior Pockets	Handle	Color	Length	Height	Width	Weight (lbs)
5144HBS	15	Yes	orange	14" (356 mm)	10" (254 mm)	7" (178 mm)	2





<image>

5110-48

Canvas Tapered-Bottom Bag Canvas Electrode Bag • No. 10 canvas. • Made of tough No. 4 canvas. Two pockets are provided for small parts. • Heat-resistant, hard leather bottom. • Canvas loop for sliding over belt. • Bottom is tapered so parts will stay in center. • Equipped with a snap for hanging. 5471 5143 Cat. No. Diameter Depth Weight (lbs.) Cat. No. Diameter Depth Weight (lbs.)

5143

2-1/2" (64 mm)

15-1/2" (394 mm)

.25

5471

6-1/2" (165 mm)

8" (203 mm)

.30

Lineman Accessories



Aerial Aprons

- Includes: ten hand tool pockets, two pouches, hammer loop and two drill bit holders (Cat. Nos. 51829, 51829M).
- Two pouches reinforced with heavy duty rivets.
- Cat. No. 5144H hooks sold separately.
- Hot stick pocket
- (Cat. No. 51829MHS).

51829M, 51829MHS

Sewn-in magnet conveniently holds nuts, bolts and other small metal objects



51829MHS

Cat. No.	Interior Pockets	Magnet	Color	Width	Height	Weight (lbs.)
51829	18	No	orange	24" (609 mm)	23" (584 mm)	4
51829M	18	Yes	orange	24" (609 mm)	23" (584 mm)	4
51829MHS	16	Yes	orange	32" (813 mm)	27.5" (699 mm)	4

Hooks

Swivel Snap Hook

Additional Features:

- This is NOT an occupational protective hook. NOT for human support. • Bronze swivel snap hook made for
- use on canvas buckets.
- Maximum safe load is 150 lbs. (68 kg).

Width

4-3/8" (111 mm) 1-5/8" (41 mm) .28

Weight (lbs.)



Hook for Aerial-Baskets All weather, durable, nylon 66 polymer. • Most manufacturers' aerial basket trucks accommodate bucket hook. Replacement hook for both Cat. No. 5144. Cat. No.

Weight (lbs.) .30

5144H



Slings

Cat. No. Length

2012

Pole Sling

- For use where a running loop wrap around pole is desired.
- Nylon web stitched with nylon thread. •
- NOT an occupational protective device. NOT for human support.

NOT FOR HUMAN SUPPORT

AWARNING: This is NOT an occupational protective device. NOT for human support.

Cat. No.	Rated Capacity (Ma	kimum Working Load)	Overall Length	Width	Weight (lbs.)
-	Choke Hitch	Basket Hitch			
5606	3000 lbs (1350 kg)	4700 lbs (2115 kg)	39" (991 mm)	2" (51 mm)	1.33





Introduction to Wire Pulling Grips

Quality

Trust the quality and reliability of Klein Grips. All authentic Klein Grips are manufactured, inspected and tested in the USA, in company owned plants by American workers. From the custom drop-forged quality steel to machining and heat treating, to pulling rated load and final inspection, Klein Grips are designed to help linemen get their jobs done.



Reliability

Before leaving our manufacturing plant, each and every authentic Klein Grip is individually hand inspected and actuated for proper function. Grips are rigorously tested using the Magnuflux method and pulled to rated load to ensure the highest quality and reliability for which Klein Tools is known.

Grip Recommendation

Klein Tools offers a service of recommending the proper grip for a particular application based on a sample of cable. This service is free of charge. All that we require is a minimum 3' (about 1 meter) length of cable.

Klein Tools has been manufacturing grips for over 135 years. All Klein Grips are manufactured, and tested in the USA.

If there is ever a question about the safe condition of any grip, please contact Klein Tools Customer Service at 847.821.5500 or 800.553.4676.





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 degreaser 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







Step 5.

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

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, please contact Klein Tools Customer Service directly at **847-821-5500** or **800-553-4676**.

Note: Conductors may have a die-grease coating which can deposit on grip jaws. New conductors should be wiped clean before grip application. Grip jaws should be wiped clean of all grease before use.



IEIN OOLS Professionals... Since 1857*** Types of Wire Pulling Grips

Klein Chicago[®], Parallel Jaw and Haven's[®] Grips are widely used in the power, communications, and general construction fields to pull wire and cable. The grips maintain temporary tension until the wire or cable can be permanently terminated.

Klein Chicago® Grips

Authentic Chicago Grips are designed for use on aluminum, copper, weatherproof coated wire, PVC covered conductors and messenger and guy strand.

- Locking loop handles allow the jaws to be held in an open position for easy placement on wire or cable.
- Available in Round, Double V and Single V jaw contours.



Parallel Jaw Grips

Lightweight compact parallel jaw grips pull an exceptionally wide range of cable types and sizes.

- Latch helps maintain cable position.
- Large-diameter eye accommodates large
- hooks on hoists, winches and tackle blocks.
- Available in Round and Double V jaw contours.



Haven's® Grips

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

- Knurled eccentric jaw applies gripping pressure to 1/4" of cable area.
- Some models include a swing latch that holds cable securely in jaw.
- Recommended for messenger and guy strand and wire rope.
- 1625 Series can be used for wire rope.



Hot-line Latch

The hot-line latch is designed for placing a grip on cable with a hot-line stick. The three notches in the hot-line latch adjust the balance of the grip to better match the direction of the cable sag.

 When stick is removed, latch closes automatically to guard against grip accidentally disengaging from wire.



All dimensions are in inches and (millimeters) unless otherwise specified.

Standard hot-line grips are not supplied with springs or lock-open features.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



Types of Jaw Contours



	Recommended for:					
Single V		Steel Strand				
		Cat. No.				
	Simple three-point contact jaws. Designed for use on small diameter bare wire and cable (solid and stranded).	1613-30		-		
		Recommended for	r:			
Double V		Steel Strand	Wide Range of Cables			
		Cat. No.	Cat. No.			
	Four-point contact provides greater gripping pressure and assures proper alignment of wire and cable within the jaws. Designed for high strength messenger and guy strand and extra high-strength cables and conductors, as well as a wide range of cables.	1613-40 and 1613-40H, 1628-16 1628-16AT (Bell System) 1628-17, 1628-18, 1684-5 1684-5AT (Bell System) 1684-5H, 1692-5 1692-5AT (Bell System) 1684-74 and S1684-74H (EHS Cable) 1684-5F	1671-10 1672-10 1686-10 1686-20	-		
_		Recommended for	r:	1		
Round		ACSR and AAC Cat. No.	Weatherproof and PVC Covered Copper Cat. No.	Steel Strand Cat. No.	Wide Range of Cables Cat. No.	
	Round jaws provide maximum contact and gripping power to minimize conductor deformation. (Smooth and knurled styles). Recommended for use on bare aluminum, ACSR, AAC and copper conductors as well as a wide range of cables.	1628-16P SERIES 1628-30 SERIES 1628-40 SERIES 1628-50 SERIES 1656-20 and 1656-20H 1656-30 and 1656-30H 1656-40 and 1656-40H 1656-50 and 1656-50H 1656-60 and 1656-60H	Notched Jaw 1611-20 Notched Jaw 1611-50 Notched Jaw 1659-20 1659-30 1659-40 1659-50 1659-50 Serpentine Jaw 1659-50	Serpentine Jaw	1685-20 1685-31	
		Recommended for	r:			
Eccentric		Steel Strand				
		Cat. No.				
	 Eccentric jaw applies gripping pressure to 1/4" of cable area. Recommended for use when conductor deformation is not an issue. Available only on the Haven's[®] Grips. 	1604-10 1604-20 1604-20L 1625-20 (For Wire Rope) 1625-20 1 (For Wire Rope) 1625-20 7/8 (For Wire Rope)		-		

Selecting the Proper Grip

Three basic factors are needed in order to determine the proper grip for each specific application:

- 1. Type of wire or cable (ACSR, ACSS, AAC, Copper, Steel Strand).
- 2. AWG or MCM (diameter) of wire or cable.
- 3. Maximum safe load required.

Klein Grips are organized according to these three factors to make it easy for you to choose the proper grip.



ACSR (Aluminum Conductor Steel Reinforced)

For Cable Diameter			MAXIMUM SAFE LOAD See facing page for grip details.					
4 AWG -	636 MCM		_	Α	В	C	D	
.250"9	53" (6.35 mr	n - 24.21 i	nm)	4,500 lbs (2041 kg)	8,000 lbs (3629 kg)	15,000 lbs (6803 kg)	20,000 lbs (9072 kg)	
AWG or MCM Cable Size	Diameter M inches (mm) S	No. of Alum. & Steel Strands	Code Word	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
4	.250" (6.35 mm)	6 x 1	Swan	1656-20, 1656-20H & S1656-20H				
4	.257" (6.53 mm)	7 x 1	Swanate	1656-20, 1656-20H & S1656-20H				
2	.316" (8.03 mm)	6 x 1	Sparrow	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H & S1656-30H		1628-16PE*		
2	.325" (8.26 mm)	7 x 1	Sparate	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H & S1656-30H		1628-16PE*		
1	.354" (9.02 mm)	6 x 1	Robin	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H & S1656-30H		1628-16PF*		
1/0	.398" (10.11 mm)	6 x 1	Raven	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H & S1656-30H		1628-16PG*		
2/0	.447" (11.35 mm)	6 x 1	Quail	1656-30, 1656-30H & S1656-30H		1628-16PG*		
3/0	.502" (12.75 mm)	6 x 1	Pigeon	1656-30, 1656-30H & S1656-30H		1628-16PH*		
4/0	.563" (14.30 mm)	6 x 1	Penguin		1656-40, 1656-40H & S1656-40H	1628-16PI*		
266.8 MCM	.609" (15.47 mm)	18 x 1	Waxwing		1656-40, 1656-40H & S1656-40H	1628-16PJ*		
266.8 MCM	.642" (16.31 mm)	26 x 7	Partridge		1656-40, 1656-40H & S1656-40H	1628-16PK*		
300 MCM	.680" (17.27 mm)	26 x 7	Ostrich		1656-40, 1656-40H & S1656-40H	1628-16PK*		
336.4 MCM	.684" (17.37 mm)	18 x 1	Merlin		1656-40, 1656-40H & S1656-40H	1628-16PK*		
336.4 MCM	.720" (18.31 mm)	26 x 7	Linnet		1656-40, 1656-40H & S1656-40H	1628-16PL*		
336.4 MCM	.741" (18.82 mm)	30 x 7	Oriole			1628-16PL*		
397.5 MCM	.743" (18.87 mm)	18 x 1	Chickadee		1656-50, 1656-50H & S1656-50H	1628-16PL*		
397.5 MCM	.772" (19.61 mm)	24 x 7	Brant		1656-50, 1656-50H & S1656-50H	1628-16PM*		
397.5 MCM	.783" (19.89 mm)	26 x 7	lbis		1656-50, 1656-50H & S1656-50H	1628-16PM*		
397.5 MCM	.806" (20.47 mm)	30 x 7	Lark		1656-50, 1656-50H & S1656-50H	1628-16PM*		
477 MCM	.814" (20.68 mm)	18 x 1	Pelican		1656-50, 1656-50H & S1656-50H	1628-16PM*		
477 MCM	.846" (21.49 mm)	24 x 7	Flicker		1656-50, 1656-50H & S1656-50H	1628-16PN*	1628-30N*	
477 MCM	.858" (21.79 mm)	26 x7	Hawk		1656-50, 1656-50H & S1656-50H	1628-16PN*	1628-30N*	
556.5 MCM	.879" (22.33 mm)	18 x 1	Osprey		1656-60, 1656-60H & S1656-60H	1628-16PN*	1628-30N*	
477 MCM	.883" (22.43 mm)	30 x 7	Hen		1656-60, 1656-60H & S1656-60H	1628-16PN*	1628-30N*	
556.5 MCM	.914" (23.22 mm)	24 x 7	Parakeet		1656-60, 1656-60H and S1656-60H		1628-300*	
556.5 MCM	.927" (23.55 mm)	26 x 7	Dove		1656-60, 1656-60H & S1656-60H		1628-300*	
636 MCM	.940" (23.88 mm)	18 x 1	Kingbird		1656-60, 1656-60H & S1656-60H		1628-300*	
556.5 MCM	.953" (24.21 mm)	30 x 7	Eagle		1656-60, 1656-60H & S1656-60H		1628-300*	
605 MCM	.953" (24.21 mm)	24 x7	Peacock		1656-60, 1656-60H & \$1656-60H		1628-300*	

"S" is for spring. "H" is for hot latch. *Special order only. Please allow 30 days for delivery. These are not returnable.

All dimensions are in inches and (millimeters) unless otherwise specified.

 $\clubsuit WARNING:$ Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



Chicago[®] Grip – 1656 Series

- Round, smooth inside jaw contour on this series of grips is ideal for bare ACSR.
- Smooth jawed grips with maximum • contact are less likely to cause cable deformation.



4,500 lbs. (2,041 kg) Maximum Safe Load

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable AWG	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1656-20	1656-20H	S1656-20H	4 - 1/0	.250"398" (6.35 mm - 10.11 mm)	4" (102 mm)	3 lbs. (1.36 kg)
1656-30	1656-30H	S1656-30H	2 - 3/0	.325"502" (8.25 mm - 12.75 mm)	4-3/4" (121 mm)	3.75 lbs. (1.70 kg)

B 8,000 lbs. (3,629 kg) Maximum Safe Load

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable AWG or MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1656-40	1656-40H	S1656-40H	4/0 - 336.4 MCM	.563"720" (14.30 mm - 18.29 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-50	1656-50H	S1656-50H	397.5 MCM - 477 MCM	.743"858" (18.82 mm - 21.79 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-60	1656-60H	S1656-60H	477 MCM - 636 MCM	.879"953" (22.33 mm - 24.21 mm)	5-1/2" (140 mm)	8.20 lbs (3.71 kg)

Chicago[®] Grip - 1628-16P and 1628-30 Series

- Round jaws are shaped to provide maximum contact with the cable, virtually eliminating cable deformation.
- Designed for large-diameter ACSR cables. •

C 15,000 lbs. (6,803 kg) Maximum Safe Load

Cat. No.	Min. to Max. Cable AWG or MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-16PE*	2	.316"325" (8.03 mm - 8.25 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PF*	1	.354" (8.99 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PG*	1/0 - 2/0	.398"447" (10.11 mm - 11.35 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PH*‡	3/0	.502" (12.75 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PI*	4/0	.563" (14.30 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PJ*	266.8 MCM	.609" (15.47 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PK*	266.8 MCM - 336.4 MCM	.642"684" (16.31 mm - 17.37 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PL*	336.4 MCM - 397.5 MCM	.720"743" (18.29 mm - 18.87 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PM*	397.5 MCM - 477 MCM	.772"814" (19.61 mm - 20.68 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PN*	477 MCM - 556.5 MCM	.846"883" (21.49 mm - 22.43 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)

20,000 lbs. (9,072 kg) Maximum Safe Load Π

Cat. No.	Min. to Max. Cable MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-30N**	477 MCM - 556.5 MCM	.846"883" (21.49 mm - 22.43 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)
1628-300**	556.5 MCM - 636 MCM	.914"953" (23.22 mm - 24.21 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.



‡ The "H" suffix does not mean Hot Latch, this is only for Cat. No. 1628-16PH



These grips are special order only. Please allow 30 days for delivery. These are not returnable.

**Maximum safe stringing tension 12,500 lbs to minimize cable deformation.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



ACSR (Aluminum Conductor Steel Reinforced)

For Cable	Diameter					See facing page for grip details
605 - 25 .966" - 1.5	1 5 MCM 88" (24.54 m	ım - 47.75 ı	mm)	C 20,000 lbs ^(9,072 kg)	D 25,000 lbs (11,340 kg)	E 25,000 lbs. with bolt on jaw (11 340 kg)
MCM Cable Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Cat. No.	Cat. No.	Cat. No.
605 MCM	.966" (24.54 mm)	26 x 7	Squab	1628-30P*		1628-50P*
636 MCM	.977" (24.82 mm)	24 x 7	Rook	1628-30P*		1628-50P*
636 MCM	.991" (25.15 mm)	26 x 7	Grosbeak	1628-30P*		1628-50P*
605 MCM	.994" (25.25 mm)	30 x 19	Teal	1628-30P*		1628-50P*
605 MCM	.994" (25.25 mm)	30 x 7	Wood Duck	1628-30P*		1628-50P*
666.6 MCM	1.00" (25.40 mm)	24 x 7	Flamingo	1628-30P*		1628-50P*
666.6 MCM	1.014" (25.76 mm)	26 x 7	Gannet	1628-30P*		1628-50P*
636 MCM	1.019" (25.88 mm)	30 x 19	Earet	1628-30R*		1628-50B*
636 MCM	1.019" (25.88 mm)	30 x 7	Scoter	1628-30R*		1628-50R*
795 MCM	1.040" (26.41 mm)	36 x 1	Coot	1628-30R*		1628-50B*
715.5 MCM	1.051" (26.70 mm)	26 x 7	Starling	1628-30R*		1628-50B*
795 MCM	1.063" (27.00 mm)	45 x 7	Tern	1628-30B*		1628-50B*
715.5 MCM	1.081" (27.46 mm)	30 x 19	Redwing	1628-305*		1628-50S*
795 MCM	1 092" (27 76 mm)	54 x 7	Condor	1628-305*		1628-505*
795 MCM	1.092" (27.74 mm)	24 x 7	Cuckoo	1628-305*		1628-50S*
795 MCM	1.107" (28.14 mm)	26 x 7	Drake	1628-305*		1628-50S*
900 MCM	1 131" (28 73 mm)	45 x 7	Buddy	1628-305*		1628-505*
795 MCM	1.140" (28.96 mm)	30 x 19	Mallard	1628-305*		1628-50S*
900 MCM	1 162" (29 51 mm)	54 x 7	Canary	1628-30T*		1628-50T*
954 MCM	1 165" (29 59 mm)	20 x 7	Corncrake	1628-30T*		1628-50T*
954 MCM	1 165" (29 59 mm)	45 x 7	Rail	1628-30T*		1628-50T*
954 MCM	1 175" (29 85 mm)	48 x 7	Towhee	1628-30T*		1628-50T*
954 MCM	1 196" (30 38 mm)	54 x 7	Cardinal	1628-30T*		1628-50T*
954 MCM	1 196" (30 38 mm)	24 x 7	Redhird	1628-30T*		1628-50T*
1033 5 MCM	1 212" (30 81 mm)	45 x 7	Ortolan	1628-3011*	1628-4011*	1628-5011*
1033 5 MCM	1 245" (31 65 mm)	54 x 7	Curlew	1628-3011*	1628-4011*	1628-5011*
1113 MCM	1 258" (31 95 mm)	45 x 7	Blueiav	1628-3011*	1628-4011*	1628-5011*
1113 MCM	1 292" (32 84 mm)	54 x 19	Finch	1020 000	1628-40W*	1628-50W*
1192 5 MCM	1.302" (33.07 mm)	45 x 7	Runting		1628-40W*	1628-50W*
1272 MCM	1 317" (33 45 mm)	36 x 1	Skylark		1628-40W*	1628-50W*
1192 5 MCM	1.337" (33.99 mm)	54 x 19	Grackle		1628-40X*	1628-50X*
1272 MCM	1 345" (34 16 mm)	45 x 7	Rittern		1628-40X*	1628-50X*
1272 MCM	1.381" (35.10 mm)	54 x 19	Pheasant		1628-40X*	1628-50X*
1351 5 MCM	1.386" (35.20 mm)	45 x 7	Dinner		1628-40X*	1628-50X*
1351 5 MCM	1 424" (36 17 mm)	54 x 19	Martin		1628-40V*	1628-50V*
1431 MCM	1 427" (36 25 mm)	45 x 7	Bobolink		1628-40V*	1628-50Y*
1431 MCM	1.465" (37.21 mm)	54 x 19	Plover		1628-407*	1628-507*
1500 MCM	1.403 (37.21 mm)	15 v 7	lanwing		1628-//07*	1628-507*
1500 MCM	1.504 (00.13 mm)	5/ v 10	Falcon		1628-/04*	1628-500*
1780 MCM	1 602" (40 60 mm)	84 x 10	Chukar		1020 401	1628-50B*
2034 5 MCM	1.681" (10.03 mm)	79 v 7	Mockinghird			1628-500*
2167 MCM	1 735" (1/ 12 mm)	79 × 7	Kiwi			1628-500*
2156 MCM	1.760 (11.75 mm)	84 y 10	Rluehird			1628-500*
2312 MCM	1 802" (/15 77 mm)	76 y 10	Thrasher			1628-50E*
2515 MCM	1.88" (47.75 mm)	76 x 19	Inrea			1628-50E*
2010 10000	1.00 (1.15 1111)	10 / 13	00100			1020 001

*Special order only. Please allow 30 days for delivery. These are not returnable.

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



n

D

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

C 20,000 lbs. (9,072 kg) Maximum Safe Load								
Cat. No.	Min. to Max.	Min. to Max.	Jaw	Approx.				
	Cable MCM	Cable Dia in. (mm)	Length	Wt. Each				
1628-30P*	605 MCM -	.966" - 1.014"	10-3/4"	27 lbs.				
	666.6 MCM	(24.54 mm - 25.76 mm)	(273 mm)	(12.27 kg)				
1628-30R*	636 MCM -	1.019" - 1.063"	10-3/4"	27 lbs.				
	795 MCM	(25.88 mm - 27.00 mm)	(273 mm)	(12.27 kg)				
1628-30S*	715.5 MCM -	1.081" - 1.140"	10-3/4"	27 lbs.				
	900 MCM	(27.46 mm - 28.96 mm)	(273 mm)	(12.27 kg)				
1628-30T*	900 MCM -	1.162" - 1.196"	10-3/4"	27 lbs.				
	954 MCM	(29.51 mm - 30.38 mm)	(273 mm)	(12.27 kg)				
1628-30U*	1033.5 MCM -	1.212" - 1.258"	10-3/4"	27 lbs.				
	1113 MCM	(30.75 mm - 31.95 mm)	(273 mm)	(12.27 kg)				



Cat. No.	Min. to Max.	Min. to Max. Cable	Jaw	Approx.					
	Cable MCM	Dia. in. (mm)	Length	Wt. Each					
1628-40U*	1033.5 MCM -	1.212" - 1.258"	10-3/4"	34 lbs.					
	1113 MCM	(30.75 mm - 31.95 mm)	(273 mm)	(15.45 kg)					
1628-40W*	1113 MCM -	1.292" - 1.317"	10-3/4"	34 lbs.					
	1272 MCM	(32.82 mm - 33.45 mm)	(273 mm)	(15.45 kg)					
1628-40X*	1192.5 MCM -	1.337" - 1.386"	10-3/4"	34 lbs.					
	1351.5 MCM	(33.96 mm - 35.20 mm)	(273 mm)	(15.45 kg)					
1628-40Y*	1351.5 MCM - 1431 MCM	1.424" - 1.427" (36.17 mm - 36.25 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)					
1628-40Z*	1431 MCM - 1590 MCM	1.465" - 1.504" (37.21 mm - 38.20 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)					
1628-40A*	1590 MCM	1.544" (39.22 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)					

25,000 lbs. (11,340 kg) Maximum Safe Load



*These grips are special order only. Please allow 30 days for delivery. These are not returnable.

Chicago® Grip – Dual Conductor

- Designed specifically for VR2[®] (vibration-resistant) and TransPowr[®] T-2[®] dual conductor twisted pair cables.
- Machined upper and lower jaws eliminate scoring or damage to second conductor.
- Round jaws shaped to provide maximum contact with circumference of cable and prevent cable deformation.
- Supplied with spring and locking loop handles, allows jaws to be held in open position for easier placement on cable.

25,000 lbs. (11,340 kg) Maximum Safe Load

Cat. No.	Min. to Max.	Min. to Max. Cable	Jaw	Approx.
	Cable MCM	Dia. in. (mm)	Length	Wt. Each
1628-40VRU	1113 MCM – 1192.5 MCM	1.212" - 1.258" (30.75 mm – 31.95 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)

Currently available in U size. Made to order sizes also available. Please call Klein Tools for expected delivery dates.



*These grips are special order only. Please allow 30 days for delivery. These are not returnable.

VR2 is a registered trademark of Southwire Company. TransPowr and T-2 are registered trademarks of General Cable Technologies Corporation.

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.





Chicago® Grip - 1628-50 Series

- Round jaws shaped to provide maximum contact with circumference of cable, less likely to cause cable deformation.
- Supplied with spring and locking loop handles, allowing jaws to be held in open position for easier placement on cable.
- Removable bolt on floating jaw, secured by a slotted nut and cotter pin. Jaw provides increased cable coverage.



ofessionals... Since 185

25,000 lbs. (11,340 kg) Maximum Safe Load with bolt on jaw



For Cab 605 - 2 .966" -	le Diameter 2515 MCN 1.88" (24.5	• 1 54 mm - 47.	75 mm)	E 25,000 lbs. (11,340 kg)					E 25,000 lbs. (11,340 kg)
MCM Cable Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Cat. No.	MCM Cable Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Cat. No.
605 MCM	.966" (24.54 mm)	26 x 7	Squab/ACSS	1628-50P*	1033.5 MCM	1.212" (30.81 mm)	45 x 7	Ortolan/ACSS	1628-50U*
636 MCM	.977" (24.82 mm)	24 x 7	Rook/ACSS	1628-50P*	1033.5 MCM	1.245" (31.65 mm)	54 x 7	Curlew/ACSS	1628-50U*
636 MCM	.991" (25.15 mm)	26 x 7	Grosbeak/ACSS	1628-50P*	1113 MCM	1.258" (31.95 mm)	45 x 7	Bluejay/ACSS	1628-50U*
605 MCM	.994" (25.25 mm)	30 x 7	Wood Duck/ACSS	1628-50P*	1113 MCM	1.292" (32.84 mm)	54 x 19	Finch/ACSS	1628-50W*
605 MCM	.994" (25.25 mm)	30 x 19	Teal/ACSS	1628-50P*	1192.5 MCM	1.302" (33.07 mm)	45 x 7	Bunting/ACSS	1628-50W*
666.6 MCM	1.00" (25.40 mm)	24 x 7	Flamingo/ACSS	1628-50P*	1192.5 MCM	1.337" (33.99 mm)	54 x 19	Grackle/ACSS	1628-50X*
666.6 MCM	1.014" (25.76 mm)	26 x 7	Gannet/ACSS	1628-50P*	1272 MCM	1.345" (34.16 mm)	45 x 7	Bittern/ACSS	1628-50X*
636 MCM	1.019" (25.88 mm)	30 x 19	Egret/ACSS	1628-50R*	1272 MCM	1.381" (35.10 mm)	54 x 19	Pheasant/ACSS	1628-50X*
636 MCM	1.019" (25.88 mm)	30 x 7	Scoter/ACSS	1628-50R*	1351.5 MCM	1.386" (35.20 mm)	45 x 7	Dipper/ACSS	1628-50X*
715.5 MCM	1.051" (26.70 mm)	26 x 7	Starling/ACSS	1628-50R*	1351.5 MCM	1.424" (36.17 mm)	54 x 19	Martin/ACSS	1628-50Y*
795 MCM	1.063" (27.00 mm)	45 x 7	Tern/ACSS	1628-50R*	1431 MCM	1.427" (36.25 mm)	45 x 7	Bobolink/ACSS	1628-50Y*
715.5 MCM	1.081" (27.46 mm)	30 x 19	Redwing/ACSS	1628-50S*	1431 MCM	1.465" (37.21 mm)	54 x 19	Plover/ACSS	1628-50Z*
795 MCM	1.092" (27.74 mm)	24 x 7	Cuckoo/ACSS	1628-50S*	1590 MCM	1.504" (38.15 mm)	45 x 7	Lapwing/ACSS	1628-50Z*
795 MCM	1.092" (27.76 mm)	54 x 7	Condor/ACSS	1628-50S*	1590 MCM	1.544" (39.24 mm)	54 x 19	Falcon/ACSS	1628-50A*
795 MCM	1.107" (28.14 mm)	26 x 7	Drake/ACSS	1628-50S*	1780 MCM	1.602" (40.69 mm)	84 x 19	Chukar/ACSS	1628-50B*
900 MCM	1.131" (28.73 mm)	45 x 7	Ruddy/ACSS	1628-50S*	2034.5 MCM	1.681" (42.70 mm)	72 x 7	Mockingbird/ACSS	1628-50C*
795 MCM	1.140" (28.96 mm)	30 x 19	Mallard/ACSS	1628-50S*	2167 MCM	1.735" (44.12 mm)	72 x 7	Kiwi/ACSS	1628-50D*
900 MCM	1.162" (29.51 mm)	54 x 7	Canary/ACSS	1628-50T*	2156 MCM	1.762" (44.75 mm)	84 x 19	Bluebird/ACSS	1628-50D*
954 MCM	1.165" (29.59 mm)	20 x 7	Corncrake/ACSS	1628-50T*	2312 MCM	1.802" (45.77 mm)	76 x 19	Thrasher/ACSS	1628-50E*
954 MCM	1.165" (29.59 mm)	45 x 7	Rail/ACSS	1628-50T*	2515 MCM	1.88" (47.75 mm)	76 x 19	Jorea/ACSS	1628-50F*
954 MCM	1.175" (29.85 mm)	48 x 7	Towhee/ACSS	1628-50T*					
954 MCM	1.196" (30.38 mm)	54 x 7	Cardinal/ACSS	1628-50T*					.

*Klein Tools recommends using the 1628-50 series grips for ACSS cable. Special order only. **Application must be confirmed prior to ordering.** Please allow 30 days for delivery. Jaw must be removed to insert cable.

Ε

954 MCM

1.196" (30.38 mm)

24 x 7

25,000 lbs. (11,340 kg) Maximum Safe Load with bolt on jaw

Redbird/ACSS

1628-50T*

Cat. No.	Min. to Max. Cable MCM	Min. to Max. Cable Dia. in. (mm)	Jaw Length	Approx. Wt. Each
1628-50P*	605 MCM - 666.6 MCM	.966" - 1.014" (24.54 mm - 25.76 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50R*	636 MCM - 795 MCM	1.019" - 1.063" (25.88 mm - 27.00 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50S*	715.5 MCM - 900 MCM	1.081" - 1.140" (27.46 mm - 28.96 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50T*	900 MCM - 954 MCM	1.162" - 1.196" (29.51 mm - 30.38 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50U*	1033.5 MCM - 1113 MCM	1.212" - 1.258" (30.75 mm - 31.95 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50W*	1113 MCM - 1272 MCM	1.292" - 1.317" (32.82 mm - 33.45 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50X*	1192.5 MCM - 1351.5 MCM	1.337" - 1.386" (33.96 mm - 35.20 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50Y*	1351.5 MCM - 1431 MCM	1.424" - 1.427" (36.17 mm - 36.25 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50Z*	1431 MCM - 1590 MCM	1.465" - 1.504" (37.21 mm - 38.20 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50A*	1590 MCM	1.544" (39.22 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50B*	1780 MCM	1.602" (40.69 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50C*	2034.5 MCM	1.681" (42.70 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50D*	2156 MCM - 2167 MCM	1.735" - 1.762" (44.12 mm - 44.75 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50E*	2312 MCM	1.802" (45.77 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50F*	2515 MCM	1.88" (47.75 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)



 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.

VR2 is a registered trademark of Southwire Company. TransPowr and T-2 are registered trademarks of General Cable Technologies Corporation.

(Aluminum Conductor Steel Supported/Trapezoidal Wire)

CSS/TW



*Klein Tools recommends using the 1628-50 series grips for ACSS and ACSS/TW cable. Special order only.

Application must be confirmed prior to ordering. Please allow 30 days for delivery. Jaw must be removed to insert cable.



AAC (All Aluminum Conductor)

For Cable Diameter				MAXIMUM SAFE LOAD See facing page for grip details					
4 AWG - .231"92	650 MCM 28" (5.87 mm	ı - 23.57 r	nm)	A 4,500 lbs (2041 kg)	B 8,000 lbs (3629 kg)	C 15,000 lbs (6803 kg)	D 20,000 lbs (9072 kg)		
AWG or MCM Cable Size	Diameter inches (mm)	No. of Alum. Strands	Code Word	Cat. No.	Cat. No.	Cat. No.	Cat. No.		
4	.231" (5.87 mm)	7	Rose	1656-20, 1656-20H and \$1656-20H					
2	.292" (7.42 mm)	7	Iris	1656-20, 1656-20H and \$1656-20H					
1	.328" (8.33 mm)	7	Pansy	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H and S1656-30H		1628-16PE*			
1/0	.369" (9.36 mm)	7	Рорру	1656-20, 1656-20H, S1656-20H, 1656-30, 1656-30H and S1656-30H		1628-16PF*			
2/0	.414" (10.51 mm)	7	Aster	1656-30, 1656-30H and S1656-30H		1628-16PG*			
3/0	.465" (11.81 mm)	7	Phlox	1656-30, 1656-30H and \$1656-30H		1628-16PH*			
4/0	.522" (13.25 mm)	7	Oxlip	1656-30, 1656-30H and \$1656-30H		1628-16PI*			
250 MCM	.567" (14.40 mm)	7	Sneezewort		1656-40, 1656-40H and S1656-40H	1628-16PI*			
250 MCM	.574" (14.58 mm)	19	Valerian		1656-40, 1656-40H and S1656-40H	1628-16PI*			
266.8 MCM	.586" (14.88 mm)	7	Daisy		1656-40, 1656-40H and S1656-40H	1628-16PJ*			
266.8 MCM	.593" (15.05 mm)	19	Laurel	-	1656-40, 1656-40H and S1656-40H	1628-16PJ*			
300 MCM	.628" (15.95 mm)	19	Peony	-	1656-40, 1656-40H and S1656-40H	1628-16PJ*			
336.4 MCM	.665" (16.90 mm)	19	Tulip	-	1656-40, 1656-40H and S1656-40H	1628-16PK*			
350 MCM	.678" (17.22 mm)	19	Daffodil	-	1656-40, 1656-40H and \$1656-40H	1628-16PK*			
397.5 MCM	.724" (18.38 mm)	19	Canna	-	1656-40, 1656-40H and \$1656-40H	1628-16PL*			
450 MCM	.769" (19.53 mm)	19	Goldentuft	-	1656-50, 1656-50H and \$1656-50H	1628-16PM*			
477 MCM	.792" (20.12 mm)	19	Cosmos		1656-50, 1656-50H and \$1656-50H	1628-16PM*			
477 MCM	.794" (20.18 mm)	37	Syringa	-	1656-50, 1656-50H and \$1656-50H	1628-16PM*			
500 MCM	.811" (20.60 mm)	19	Zinnia	-	1656-50, 1656-50H and \$1656-50H	1628-16PM*			
500 MCM	.813" (20.65 mm)	37	Hyacinth		1656-50, 1656-50H and \$1656-50H	1628-16PM*			
556.5 MCM	.856" (21.73 mm)	19	Dahlia	-	1656-50, 1656-50H and \$1656-50H	1628-16PN*	1628-30N*		
556.5 MCM	.858" (21.80 mm)	37	Mistletoe	-	1656-50, 1656-50H and \$1656-50H	1628-16PN*	1628-30N*		
600 MCM	.891" (22.63 mm)	37	Meadowsweet	-	1656-60, 1656-60H and \$1656-60H		1628-300*		
636 MCM	.918" (23.31 mm)	37	Orchid		1656-60, 1656-60H and		1628-300*		
650 MCM	.928" (23.57 mm)	37	Heuchera	-	1656-60, 1656-60H and S1656-60H		1628-300*		

"S" is for spring. "H" is for hot latch. *Special order only. Please allow 30 days for delivery. These are not returnable.

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

 ${\bf \hat{k}} WARNING:$ When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

CIVITELLA

86

São Paulo, Brazil • Phone: +55 11 5182.9577 • www.civitella.com.br

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.

AAC (All Aluminum Conductor)



Chicago[®] Grip - 1656 Series

- Round, smooth inside jaw contour on this series of grips is • recommended for bare AAC.
- Smooth jawed grips with • maximum contact are less likely to cause cable deformation.



4,500 lbs. (2,041 kg) Maximum Safe Load

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable AWG	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1656-20	1656-20H	S1656-20H	4 - 1/0	.231"369" (5.87 mm - 9.37 mm)	4" (102 mm)	3 lbs. (1.36 kg)
1656-30	1656-30H	S1656-30H	1- 4/0	.328"522" (8.33 mm - 13.26 mm)	4-3/4" (121 mm)	3.75 lbs. (1.70 kg)

B

D

Cat. No.

1628-30N**

Min. to Max. Cable MCM

556.5 MCM

1628-300** 600 MCM - 650 MCM

A

8,000 lbs. (3,629 kg) Maximum Safe Load

Cat. No.	Hot Latch Model No.	Hot Latch/Spring Model No.	Min. to Max. Cable MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1656-40	1656-40H	S1656-40H	250 MCM - 397.5 MCM	.567"724" (14.40 mm - 18.39 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-50	1656-50H	S1656-50H	450 MCM - 556.5 MCM	.769"858" (19.53 mm - 21.79 mm)	5-1/2" (140 mm)	8.30 lbs. (3.76 kg)
1656-60	1656-60H	S1656-60H	600 MCM - 650 MCM	.891"928" (22.63 mm - 23.57 mm)	5-1/2" (140 mm)	8.20 lbs (3.71 kg)

Chicago[®] Grip – 1628-16P and 1628-30 Series

• Designed for large-diameter AAC cables.

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

C 15	,000 lbs. (6,803	8 kg) Maximum Sa	fe Load	
Cat. No.	Min. to Max. Cable AWG or MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-16PE*	1	.328" (8.33 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PF*	1/0	.369" (9.37 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PG*	2/0	.414" (10.52 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PH*‡	3/0	.465" (11.81 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PI*	250 MCM	.567"574" (14.40 mm - 14.58 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PJ*	266.8 MCM - 300 MCM	.586"628" (14.88 mm - 15.95 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PK*	336.4 MCM - 350 MCM	.665"678" (16.89 mm - 17.22 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PL*	397.5 MCM	.724" (18.39 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PM*	450 MCM - 500 MCM	.769"813" (19.53 mm - 20.65 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)
1628-16PN*	556.5 MCM	.856"858" (21.74 mm - 21.79 mm)	7-1/4" (184 mm)	17 lbs. (7.73 kg)

20,000 lbs. (9,072 kg) Maximum Safe Load

856" - 858 (21.74 mm - 21.79 mm)

.891" - .928" (22.63 mm - 23.57 mm)

** Maximum safe stringing tension 12,500 lbs to minimize cable deformation.

All dimensions are in inches and (millimeters) unless otherwise specified.

Min. to Max. Cable Diameter inches (mm)

1628-16P

‡ The "H" suffix does not mean Hot Latch, this is only for Cat. No. 1628-16PH



*These grips are special order only. Please allow 30 days for delivery. These are not returnable.

AWARNING: See facing page.

Approx. Weight Each

27 lbs.

10-3/4" 27 lbs. (273 mm) (12.27 kg

(12.27 kg



Machines and Tools for Electrical Installations, Telecommunications and Offshore Operations

.Jaw Length

10-3/4"

(273 mm)



AAC (All Aluminum Conductor) .. Since 1857°

or Cable	Diameter					See facing for grip d
700 - 25	500 MCM			C	D	E
963" - 1.	823" (24.46	mm - 46.30	mm)	20,000 lbs (9,072 kg)	25,000 lbs (11,340 kg)	25,000 lbs. (11,340 kg) with bolt on jaw
NCM Cable Size	Diameter inches (mm)	No. of Alum. & Steel Strands	Code Word	Cat. No.	Cat. No.	Cat. No.
00 MCM	.963" (24.46 mm)	37	Verbena	1628-30P*		1628-50P*
DO MCM	.964" (24.49 mm)	61	Flag	1628-30P*		1628-50P*
15.5 MCM	.974" (24.73 mm)	37	Violet	1628-30P*		1628-50P*
15.5 MCM	.975" (24.76 mm)	61	Nasturtium	1628-30P*		1628-50P*
50 MCM	.997" (25.32 mm)	37	Petunia	1628-30P*		1628-50P*
50 MCM	.998" (25.35 mm)	61	Cattail	1628-30P*		1628-50P*
95 MCM	1.026" (26.07 mm)	37	Arbutus	1628-30R*		1628-50R*
95 MCM	1.028" (26.11 mm)	61	Lilac	1628-30R*		1628-50R*
DO MCM	1.029" (26.14 mm)	37	Fuchsia	1628-30R*		1628-50R*
0 MCM	1.031" (26.19 mm)	61	Heliotrope	1628-30R*		1628-50R*
74.5 MCM	1.076" (27.37 mm)	37	Anemone	1628-30R*		1628-50R*
74.5 MCM	1.077" (27.36 mm)	61	Crocus	1628-30R*		1628-50R*
DO MCM	1.092" (27.74 mm)	37	Cockscomb	1628-30S*		1628-50S*
54 MCM	1.124" (28.55 mm)	37	Magnolia	1628-30S*		1628-50S*
54 MCM	1.126" (28.60 mm)	61	Goldenrod	1628-30S*		1628-50S*
DOO MCM	1.152" (29.26 mm)	61	Camellia	1628-30T*		1628-50T
DOO MCM	1.152" (29.26 mm)	37	Hawkweed	1628-30T*		1628-50T*
033.5 MCM	1.170" (29.71 mm)	37	Bluebell	1628-30T*		1628-50T*
033.5 MCM	1.172" (29.76 mm)	61	Larkspur	1628-30T*		1628-50T*
113 MCM	1.216" (30.88 mm)	61	Marigold	1628-30U*	1628-40U*	1628-50U*
192.5 MCM	1.258" (31.96 mm)	61	Hawthorn	1628-30U*	1628-40U*	1628-50U*
272 MCM	1.297" (32.94 mm)	61	Narcissus		1628-40W*	1628-50W*
351.5 MCM	1.339" (34.02 mm)	61	Columbine		1628-40X*	1628-50X*
I31 MCM	1.379" (35.02 mm)	61	Carnation		1628-40X*	1628-50X*
10.5 MCM	1.417" (35.98 mm)	61	Gladiolus		1628-40Y*	1628-50Y*
90 MCM	1.454" (36.93 mm)	61	Coreopsis		1628-40Z*	1628-50Z*
'50 MCM	1.524" (38.72 mm)	61	Jessamine		1628-40A*	1628-50A*
JOO MCM	1.630" (41.41 mm)	91	Cowslip			1628-50B*
250 MCM	1.729" (43.92 mm)	91	Sagebrush			1628-50D*
500 MCM	1.823" (46.30 mm)	91	Lupine			1628-50E*

** Maximum safe stringing tension 12,500 lbs to minimize cable deformation. * Special order. Please allow 30 days for delivery. These are not returnable.

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper

 $\clubsuit WARNING:$ Grips are to be used for temporary installation, not for permanent anchorage.

 ${\bf \hat{k}} WARNING:$ When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

CIVITELLA

operation to avoid slippage.

Chicago® Grip – 1628 Series

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

C	20,000 lbs. (9,072	2 kg) Maximum Sa	fe Load	
Cat. No.	Min. to Max. Cable MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-30P*	700 MCM - 750 MCM	.963"998" (24.46 mm - 25.35 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)
1628-30R*	795 MCM - 874.5 MCM	1.026" - 1.077" (26.06 mm - 27.36 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)
1628-30S*	900 MCM - 954 MCM	1.092" - 1.126" (27.74 mm - 28.60 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)
1628-30T*	1000 MCM - 1033.5 MCM	1.152" - 1.172" (29.26 mm - 29.77 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)
1628-30U*	1113 MCM - 1192.5 MCM	1.216" - 1.258" (30.89 mm - 31.95 mm)	10-3/4" (273 mm)	27 lbs. (12.27 kg)





D 25,000 lbs. (11,340 kg) Maximum Safe Load

Cat. No.	Min. to Max. Cable MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-40U*	1113 MCM - 1192.5 MCM	1.216" - 1.258" (30.89 mm - 31.95 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-40W*	1272 MCM	1.297" (32.94 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-40X*	1351.5 MCM - 1431 MCM	1.339" - 1.379" (34.01 mm - 35.03 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-40Y*	1510.5 MCM	1.417" (35.99 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-40Z*	1590 MCM	1.454" (36.93 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-40A*	1750 MCM	1.524" (38.71 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)



25,000 lbs. (11,340 kg) Maximum Safe Load with bolt on jaw

Cat. No.	Min. to Max. Cable MCM	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
1628-50P*	700 MCM - 750 MCM	.963"998" (24.46 mm - 25.35 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50R*	795 MCM - 874.5 MCM	1.026" - 1.077" (26.06 mm - 27.36 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50S*	900 MCM - 954 MCM	1.092" - 1.126" (27.74 mm - 28.60 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50T*	1000 MCM - 1033.5 MCM	1.152" - 1.172" (29.26 mm - 29.77 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50U*	1113 MCM - 1192.5 MCM	1.216" - 1.258" (30.89 mm - 31.95 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50W*	1272 MCM	1.297" (32.94 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50X*	1351.5 MCM - 1431 MCM	1.339" - 1.379" (34.01 mm - 35.03 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50Y*	1510.5 MCM	1.417" (35.99 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50Z*	1590 MCM	1.454" (36.93 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50A*	1750 MCM	1.524" (38.71 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50B*	2000 MCM	1.630" (41.40 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50D*	2250 MCM	1.729" (43.92 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)
1628-50E*	2500 MCM	1.823" (46.30 mm)	10-3/4" (273 mm)	34 lbs. (15.45 kg)

*These grips are special order only. Please allow 30 days for delivery. These are not returnable.



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.

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: See facing page.





Bare Stranded Chicago[®] Grips - 1656 Series

- Round, smooth inside jaw contour on this series of grips is ideal for stranded-copper cables. •
- Smooth jaws grip with maximum contact are less likely to cause cable deformation.



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) Maxii	mum Safe Load			
1656-20	1656-20H	S1656-20H	.20"40" (5.08 mm - 10.16 mm)	4" (102 mm)	3 lbs. (1.36 kg)
1656-30	1656-30H	S1656-30H	.31"53" (7.87 mm - 13.46 mm)	4 3/4" (121 mm)	3.75 lbs (1.70 kg)
8,000 lbs.	(3,629 kg) Maxii	mum Safe Load			
1656-40	1656-40H	S1656-40H	.53"74" (13.46 mm - 18.80 mm)	5 1/2" (140 mm)	8.30 lbs (3.76 kg)
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)	5 1/2" (140 mm)	8.20 lbs (3.71 kg)



Weatherproof Stranded and Solid Chicago® Grips – 1611 Series

- Round inside jaw contour for weatherproof coated wire.
- Notches in jaw provide firm grip on insulation.

Notched Jaw



Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
4,500 lbs. (2,041 kg) Maximum Safe l	Load		
1611-20	.20"40" (5.08 mm - 10.16 mm)	4-3/16" (106 mm)	3 lbs. (1.36 kg)
1611-30	.31"53" (7.87 mm - 13.46 mm)	4-3/4" (121mm)	3.75 lbs (1.70 kg)
8,000 lbs. (3,629 kg) Maximum Safe l	Load		
1611-40	.53"74" (13.46 mm - 18.80 mm)	5-11/16" (144 mm)	7.75 lbs (3.52 kg)
1611-50	.74"86" (18.80 mm - 21.84 mm)	5-11/16" (144 mm)	7.75 lbs (3.52 kg)
Note: Due to various types of weatherproc	of coatings available, selection of proper grips is deter	mined by outside diameter of cable	

PVC-Covered Chicago[®] Grips - 1659 Series

- Specially machined serpentine jaws allow insulated conductor to be inserted through jaws.
- Eliminates necessity of stripping insulation from conductor.
- Round inside-jaw contour.



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" - 1.01" (20.07 mm - 25.56 mm)	5-11/16" (144 mm)	7.75 lbs (3.52 kg)

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.

Steel Strand – Chicago® Grips



Bell System B, L, and H Chicago® Grips – 1628, 1659, 1684 & 1692 Series

- All are equipped with chain, toggle and shackle keeps the grip from falling off of cable.
- 1659 5AT is similar to Bell-System type "B" Strand Puller. Designed to pull 1/4" (6.35 mm) figure-8 telephone cable. Also has serpentine jaw.
- 1684 5AT is identical to Bell-System type "L" Strand Puller.
- 1628 16AT is identical to Bell-System type "H" Strand Puller.



Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
5,000 lbs. (2,268 kg) Max	kimum Safe Load		
1659-5AT ("B" Strand Puller)	.20"37" (5.08 mm - 9.40 mm)	5" (127mm)	6.70 lbs. (3.03 kg)
8,000 lbs. (3,629 kg) Max	kimum Safe Load		
1684-5AT ("L" Strand Puller)	.218"550" (5.54 mm - 13.97 mm)	5" (127mm)	6.9 lbs (3.13 kg)
1692-5AT ("L" Strand Puller)	.218"550" (5.54 mm - 13.97 mm)	5" (127mm)	6.6 lbs (3.00 kg)
15,000 lbs. (6,803 kg) Ma	aximum Safe Load		
1628-16AT ("H" Strand Puller)	.31"62" (7.87 mm - 15.75 mm)	7 1/4" (184 mm)	15.80 lbs (7.16 kg)

*1692-5AT (larger clamping force than 1684-5AT)

Aircraft Cable, EHS (Extra-High-Strength), Messenger, and Guy Strand Chicago[®] Grips – 1613, 1628, 1684 and 1692 Series



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				
1684-5F	NA	NA	.16"550" (4.06 mm - 13.97 mm)	5" (127 mm)	6.25 lbs. (2.84 kg)
1684-5	1684-5H	S1684-5H	.218"550" (5.54 mm - 13.97 mm)	5" (127 mm)	6.25 lbs. (2.84 kg)
1692-5 (larger clamping force than 1684-5)	NA	NA	.218"550" (5.54 mm - 13.97 mm)	5" (127 mm)	6.40 lbs. (2.89 kg)
8,000 lbs. (3,629 kg) Maximum Safe	Load - EHS Specific	;			
1684-74 (Includes curved jaw)	NA	S1684-74H	.218"550" (5.54 mm - 13.97 mm)	5" (127 mm)	6.30 lbs. (2.85 kg)
15,000 lbs. (6,803 kg) Maximum Saf	'e Load				
1628-16	NA	NA	.31"62" (7.87 mm - 15.75 mm)	7-1/4" (184 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	NA	NA	.75" - 1.00" (19.05 mm - 25.40 mm)	7-1/4" (184 mm)	15.70 lbs. (7.10 kg)

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: See facing page.



Bare Wire Chicago® Grips – 1613 Series

- Designed for working with solid and stranded bare wire from .08" (2 mm) to .20" (5.1 mm).
 Lightweight, cost-effective grip.
- Cingle "V" groove jow
- Single "V" groove jaw.

Cat. No.

1604-10

1604-20

Latch

Model

NA

2,500 lbs. (1,134 kg) Maximum Safe Load

5,000 lbs. (2,268 kg) Maximum Safe Load





Cat. No.	Minimum	Maximum	Maximum	Jaw	Approx.
	Cable	Cable	Safe Load	Length	Weight Each
1613-30	12 B&S solid .08" (2.03 mm)	4 B&S solid .20" (5.08 mm)	1500 lbs. (680 kg)	3" (76 mm)	1.50 lbs. (.68 kg)

Steel Strand – Haven's® Grips

Min. to Max. Cable

1604-20L .125" - .50" (3.18 mm - 12.70 mm)

Diameter inches (mm)

.06" - .25" (1.52 mm - 6.35 mm)

Messenger and Guy Strand Haven's® Grips – 1604 Series

- Designed for use when light, compact grip is desired and where cable deformation is not a factor.
- Gripping pressure of the knurled jaw is applied to 1/4" (6.35 mm) cable area.

	1604-20
Approx. Weight Each	
1 ID. (.45 KG)	
2.08 lbs. (1.14 kg)	304-20L

Wire Rope Haven's® Grips – 1625 Series

- Designed for use when light, compact grip is desired and where cable 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.



Jaw Length

N/A

N/A



Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
3,629 kg) Maximum Safe Load		
.28"75" (7.11 mm - 19.05 mm)	N/A	4 lbs. (1.81 kg)
.38"88" (9.65 mm - 22.35 mm)	N/A	4 lbs. (1.81 kg)
.50" - 1.00" (12.70 mm - 25.40 mm)	N/A	4 lbs. (1.81 kg)
	Min. to Max. Cable Diameter inches (mm) 8,629 kg) Maximum Safe Load .28"75" (7.11 mm - 19.05 mm) .38"88" (9.65 mm - 22.35 mm) .50" - 1.00" (12.70 mm - 25.40 mm)	Min. to Max. Cable Jaw Diameter inches (mm) Length 8,629 kg) Maximum Safe Load

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.





Parallel Jaw Grips - KT4500, KT4600 and KT4800 Series



- The KT4500, KT4600 and KT4800 Series feature a round serrated jaw.
- KT4501, KT4502, KT4601, KT4602, KT4801, KT4802 are supplied with hot latches.
- Hot latch closes automatically to guard against grip accidentally disengaging from wire.
- Large opening in the handle to accommodate a wide variety of hooks on hoists, winches and tackle blocks.

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	ı) Maximum Safe Load					
KT4500	.180"600" (4.57 mm - 15.2 mm)		•		4" (101.3 mm)	3.75 lbs. (1.70 kg)
KT4501	.180"600" (4.57 mm - 15.2 mm)	•	•	•	4" (101.3 mm)	3.75 lbs. (1.70 kg)
KT4502	.180"600" (4.57 mm - 15.2 mm)	•			4" (101.3 mm)	3.75 lbs. (1.70 kg)
KT4650	.160"900" (4.00 mm - 23.0 mm)		•		4-1/2" (114 mm)	4.90 lbs. (2.22 kg)
KT4652	.160"900" (4.00 mm - 23.0 mm)	•	•		4-1/2" (114 mm)	4.90 lbs. (2.22 kg)
10,000 lbs. (4,536 l	xg) Maximum Safe Load					
KT4600	.300"800" (7.62 mm - 20.3 mm)		•		5" (127 mm)	7 lbs. (3.18 kg)
KT4601	.300"800" (7.62 mm - 20.3 mm)	•	•	•	5" (127 mm)	7 lbs. (3.18 kg)
KT4602	.300"800" (7.62 mm - 20.3 mm)	•			5" (127 mm)	7 lbs. (3.18 kg)
12,000 lbs. (5,443 l	xg) Maximum Safe Load					
KT4800	.700" - 1.25" (17.8 mm - 31.8 mm)		•		5-1/8" (130 mm)	9 lbs. (4.1 kg)
KT4801	.700" - 1.25" (17.8 mm - 31.8 mm)	•	•	•	5-1/8" (130 mm)	9 lbs. (4.1 kg)
KT4802	.700" - 1.25" (17.8 mm - 31.8 mm)	•			5-1/8" (130 mm)	9 lbs. (4.1 kg)

All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



Parallel Jaw Grips - 1685 Series

- Lightweight, compact grips pull an exceptionally wide range of cable types and sizes.
- Designed with a round inside-jaw contour for maximum contact to minimize cable deformation.
- Lower jaw is serrated to firmly grip insulated cables and conductors.
- Design includes a latch that prevents the grip from falling in case of jaw disengagement from the cable.
- Large-diameter eye accommodates large hooks on hoists, winches and tackle blocks.

			1685-20	30 1
Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each	1685-31
4,500 lbs. (2,	,041 kg) Maximum Safe Load			
1685-20	.157"875" (4 mm - 22 mm)	2-1/2" (64 mm)	3 lbs. (1.30 kg)	
7,500 lbs. (3,	,400 kg) Maximum Safe Load			
1685-31	.625" - 1.250" (16 mm - 32 mm)	4-1/2" (114 mm)	5 lbs. (2.27 kg)	

Parallel Jaw Grips - 1686-10, 1686-20, 1671-10 and 1672-10

- Longer jaws achieve a firm hold, reducing possibility of slippage and deformation to cable.
- Designed with a Double V jaw contour, a latch, plus a large-diameter eye that accommodates large hooks on hoists, winches, and tackle blocks.
- When latch is closed, it helps maintain cable position in grip jaws.

Cat. No.	Min. to Max. Cable Diameter inches (mm)	Jaw Length	Approx. Weight Each
10,000 lbs	. (4,536 kg) Maximum Safe Loa	ad	
1686-10	.20"40" (5.08 mm - 10.16 mm)	4-3/8" (111 mm)	5 lbs. (2.27 kg)
1686-20 Knurled Jaw	.20"40" (5.08 mm - 10.16 mm)	4-3/8" (111 mm)	5 lbs. (2.27 kg)
1671-10	.37"75" (9.40 mm - 19.05 mm)	4-3/8" (111 mm)	5 lbs. (2.27 kg)
1672-10 Knurled Jaw	.37"75" (9.40 mm - 19.05 mm)	4-3/8" (111 mm)	5 lbs. (2.27 kg)



All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.



operation to avoid slippage.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper



Interchangeable Jaw Grips & Liners

- Constructed of high strength alloy steel, hot forged, heat treated, and galvanized for toughness, strength and corrosion resistance.
- Suitable for Optical Ground Wire (OPGW) conductors .236" to .906" (6 mm - 23 mm) (Cat. No. 1628-80).
- Offers a full range of interchangeable liners to be inserted between the upper and lower jaws of the grip.
- Liners are made to order. Call customer service with details of cable diameter, cable type and working load requirements for availability and lead time.



Lower liner – Aluminum Upper liner – Aluminum (Cat. No. 1628-60) Lower liner – Polyurethane (provides cushioning for the optical cable) Upper liner – Aluminum (Cat. No. 1628-80)

Cat. No.	Description	Cable Diameter Range	Maximum Working Load	Recommended For:	Weight
1628-60	1628-60 grip body only	.394" to 1.614" (10 mm to 41 mm)	6,750 lbs. (3060 kg.)	conductor cable	38 lbs. (17 kg.)
1628-80	1628-80 OPGW grip body only	.236" to .906" (6 mm to 23 mm)	6,750 lbs. (3060 kg.)	OPGW	15 lbs. (7 kg.)

Accessories

Grip-Cleaning Brush Set

- Set of four wire-bristle brushes designed for cleaning Klein wire and cable-pulling grips.
- Brushes have stiff wire bristles.

Cat. No

25450

- 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.

).	Set Contains			Weight (lbs.)
				1.00
	Description	Bristle Diameter and Length	Overall Length	
	round-bristle	3/8" x 3" (10 mm x 76 mm)	12" (305 mm)	
	square-bristle	3/8" x 3" (10 mm x 76 mm)	12" (305 mm)	
	round-bristle	1-9/16" x 5" (40 mm x 127 mm)	14" (356 mm)	
	square-bristle	1-9/16" x 5" (40 mm x 127 mm)	14" (356 mm)	



All dimensions are in inches and (millimeters) unless otherwise specified.

AWARNING: Grips are to be used for temporary installation, not for permanent anchorage.

AWARNING: When used on/or near energized lines, ground, insulate, or isolate grip before pulling.

AWARNING: Do not exceed rated capacity.

AWARNING: Always match proper size and type of grip to application.

AWARNING: Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.



KLEIN TOOLS For Professionals... Since 1857*** Wire-Mesh Grips

Single-Weave, Flexible-Eye Pulling Grips



KPJ-50

	KPJ Junior Duty			KPL Light Duty				
						Short Le	ength	
Cable Dia.*	Cat. No.	Loaded/Compressed Mesh Length	Maximum Safe Load	Weight	Cat. No.	Loaded/Compressed Mesh Length	Maximum Safe Load	Weight
.50"61"	KPJ-50	8.5"	260 lbs. (118 kg)	.05 lbs.	—	_	_	_
.75"99"	KPJ-75	10"	560 lbs. (254 kg)	.10 lbs.	—	_	—	_
1.00"-1.24"	KPJ-100	11.5"	780 lbs. (354 kg)	.28 lbs.	_	_	—	_
1.25"-1.49"	—	_	_	_	KPL-125-1	14"	1060 lbs. (481 kg)	.40 lbs.
1.50"-1.74"	—	_	_	_	KPL-150-1	15"	1360 lbs. (617 kg)	.40 lbs.
2.00"-2.49"	—	_		_	KPL-200-1	18"	1700 lbs. (771 kg)	.65 lbs.

*For equivalent cable diameters in fractional inches and in metric dimensions (mm), see Dimensions Conversion Reference Table 3.

Double-Weave, Flexible-Eye Pulling Grips



	KPM Medium Duty			KP Heavy Duty								
						Short L	ength			Medium L	.ength	
Cable Dia.*	Cat. No.	Loaded/ Compressed Mesh Length	Maximum Safe Load	Weight	Cat. No.	Loaded/ Compressed Mesh Length	Maximum Safe Load	Weight	Cat. No.	Loaded Compressed Mesh Length	Maximum Safe Load	Weight
.50"–.61"	KPM-050	13"	480 lbs. (218 kg)	.10 lbs.	-	-	_	_	-	_	-	_
.75"–.99"	KPM-075	16"	1030 lbs. (467 kg)	.20 lbs.	KP-075-24	24"	1360 lbs. (617 kg)	.50 lbs.	KP-075-36	36"	1360 lbs. (617 kg)	.74 lbs.
1.00"-1.37"	KPM-100	18"	1420 lbs. (644 kg)	.40 lbs.	—	_	_	_	—	_	_	_
1.00"-1.49"	-	_	_	_	KP-100-24	24"	1920 lbs. (871 kg)	1.1 lbs.	KP-100-36	36"	1920 lbs. (871 kg)	1.0 lbs.
1.50"-1.99"	—	_	_	_	—	_	_	_	KP-150-36	36"	3280 lbs. (1488 kg)	1.6 lbs.

*For equivalent cable diameters in fractional inches and in metric dimensions (mm), see Dimensions Conversion Reference Table 3.

Light Duty, Wire-Mesh Pulling Grips

	KPS Light Duty					
0-61-	Oct No	landad/0auranaad Maab Laurah	Manimum Oafa Laad	111-1-64		
Cable Dia.*	Gat. NO.	Loaded/Compressed Wesh Length	Maximum Safe Load	weight		
.50"56"	KPS050-SEN	8 [°]	100 lbs. (45 kg)	.07 lbs.		
.75"-1.00"	KPS075-SEN	9.25"	185 lbs. (84 kg)	.11 lbs.		



KPS050-SEN





Cable-Sheath Splitting Knife

- Compact, lightweight knife for opening lead cables.
- Rugged, forged tempered cutlery steel blade.
- Sharp, chisel-shaped edge.
- Hammer head on back.
- Plastic-dipped handle for comfort.
- Leather guard available, Cat. No. 5574S.

Cat. No.	Overall Length	Blade Length	Weight (lbs.)
1515-S	7-3/8" (187 mm)	2-19/32" (66 mm)	.35

Cable/Lineman's Skinning Knives



- Three-inch steel blade withstands frequent scoring and slitting of cable jacket.
- Blade and ring are securely molded in handle.
- Notch on blade back for scraping or removing wire insulation.
- Comfortable textured handle with finger grooves and guard.
- No contact between stainless steel ring and hardened steel blade (Cat. No. 1570-3).
- Rectangle-shaped handle design for attachment to some utility hot stick equipment.
- Leather sheath available, Cat. No. 5163.

Cat. No.	Description	Handle Color	Length Less Ring	Weight (lbs.)
1570-3	hook blade, notch, and ring	black	8" (203 mm)	.30
1570-3LR	hook blade and notch	black	8" (203 mm)	.29

Insulated Lineman's Skinning Knife



- Molded measuring marks on back of handle to help measure stripping length of wire.
- Large molded handle for an easier, more comfortable grip.
- Tough, tempered steel blade provides maximum sharpness and durability to withstand frequent cable scoring.

Cat. No.	Overall Length	Blade Length	Weight (lbs.)	(
44200	6-1/4" (159 mm)	1-3/4" (44 mm)	.15	1
All dimension	ns are in inches and (millim	neters).		[

AWARNING: Always wear approved eye protection.

Bell System Cable-Sheath Splitting Knife — Heavy-Duty



- Plastic-dipped handle for comfort.
- Leather guard available, Cat. No. 5574L.

Cat. No.	Overall Length	Blade Length	Weight (lbs.)
1515-1	8-3/4" (222 mm)	4-1/2" (114 mm)	1.20

Cable-Splicer's Kits



2100-7	electrician's scissors with stripping notches
5187	slotted leather holder for belts
	up to 2" (51 mm) wide

-			
Cat. No.	Kit Contair	Weight (lbs.)	
46039	cable splice	.58	
	Cat. No.	Description	
	44200	cable-splicer's knife	
	2101-0	free-fall snip	
	5187	slotted leather holder for belts up to 2" (51 mm) wide	

Cable-Splicer's Knife

		CHILDREN OVOIL	44200				
 Special-purpose short blade with comfortable, full-sized, heavy-duty handle. Coping-type blade made of the finest cutlery steel, tough and carefully tempered to hold its edge. Handle is textured for comfort and firm grip. Hang hole for easy storage and portability. 							
Cat. No.	Blade Length	Handle Color	Overall Length				
1571-INS	2 3/8" (60 mm)	orange	8-3/4" (223 mm)				
AWARNING: Never use on or near live electrical circuits.							
AWARNING: NOT insulated. Will NOT protect against electrical shock.							



ASCR GUIDE

Aluminium-Conductor Steel-Reinforced Cable Technical Reference Guide

Code	Gauge AWG / MCM	Diameter Nominal (mm)	Weight Nominal (kg/km)	Load Breaking (kgf)
WREN	8.0	4.00	33.9	343
WARBLER	7.0	4.49	42.6	431
TURKEY	6.0	5.04	53.6	539
THRUSH	5.0	5.66	67.8	673
SWAN	4.0	6.35	85.4	844
SWALLOW	3.0	7.14	107.8	1,041
SPARROW	2.0	8.02	135.9	1,290
ROBIN	1.0	9.00	171.4	1,612
RAVEN	1/0	10.11	216.3	1,988
QUAIL	2/0	11.35	272.4	2,408
PIGEON	3/0	12.74	343.5	3,002
PENGUIN	4/0	14.31	433.2	3,786
WAXWING	226.8	15.46	430.8	3,119
OWL	266.8	16.07	511.7	4,392
PARTRIDGE	266.8	16.30	546.8	5,124
OSTRICH	300.0	17.27	614.4	5,761
PIPPER	300.0	17.78	699.5	7,111
MERLIN	336.4	17.36	543.7	3,936
LINNET	336.4	18.29	688.3	6,392
ORIOLE	336.4	18.83	784.6	7,847
CHICKADEE	397.5	18.87	642.2	4,524
BRANT	397.5	19.62	762.0	6,641
IBIS	397.5	19.88	813.4	7,380
LARK	397.5	20.47	927.0	9,228
PELICAN	477.0	20.68	770.9	5,350
FLICKER	477.0	21.48	914.6	7,802
HAWK	477.0	21.79	976.4	8,845
HEN	477.0	22.42	1,112.4	10,795
HERON	500.0	22.95	1,165.8	11,323
OSPREY	556.5	22.33	898.9	6,124
PARAKEET	556.5	23.20	1,066.7	8,987
DOVE	556.5	23.53	1,140.1	10,256
EAGLE	556.5	24.21	1,297.3	12,600
DUCK	605.0	24.20	1,159.8	10,064
KINGBIRD	636.0	23.88	1,028.0	7,120
ROOK	636.0	24.81	1,219.1	10,270

ASCR GUIDE

Aluminium-Conductor Steel-Reinforced Cable Technical Reference Guide

Code	Gauge AWG / MCM	Diameter Nominal (mm)	Weight Nominal (kg/km)	Load Breaking (kgf)
GROSBEAK	636.0	25.16	1,302.8	11,428
EGRET	636.0	25.89	1,470.5	14,300
GOOSE	636.0	24.81	1,219.3	10,580
GULL	666.6	24.40	1,277.5	10,977
STARLING	715.5	26.69	1,465.9	12,862
REDWING	715.5	27.45	1,652.7	15,672
CROW	715.5	26.32	1,371.4	11,684
CUCKOO	795.0	27.73	1,523.7	12,660
DRAKE	795.0	28.13	1,628.6	14,289
MALLARD	795.0	28.95	1,838.4	17,420
TERN	795.0	27.01	1,333.4	10,013
CONDOR	795.0	27.73	1,522.6	12,780
CRANE	874.5	29.09	1,675.5	14,064
CANARY	900.0	29.51	1,724.7	14,476
RAIL	954.0	29.59	1,600.2	11,750
CARDINAL	954.0	30.38	1,828.2	15,345
CURLEW	1,033.5	31.62	1,979.5	16,615
BLUEJAY	1,113.0	31.96	1,867.6	13,531
FINCH	1,113.0	32.83	2,130.1	17,727
GRACKLE	1,192.5	33.97	2,281.5	18,989
BITTERN	1,272.0	34.16	2,133.5	15,456
PHEASANT	1,272.0	35.09	2,434.0	19,773
MARTIN	1,351.5	36.16	2,584.7	20,995
BOBOLINK	1,431.0	36.23	2,400.2	17,390
PLOVER	1,431.0	37.22	2,738.4	22,253
PARROT	1,510.0	38.22	2,888.3	23,462
LIPWING	1,590.0	38.20	2,667.7	19,138
FALCON	1,590.0	39.23	3,042.9	24,725
CHUKAR	1,780.0	40.70	3,089.0	22,770
BLUE BIRD	2,156.0	44.76	3,740.0	26,830
KIWI	2,167.0	44.10	3,430.0	22,110
THRASHER	2,312.0	45.79	3,761.0	25,180
JOREE	2,515.0	47.76	4,095.0	27,450



Rua Inácio Borba, 749 São Paulo - SP - Brasil CEP: 04715-020 Phone: +55 11 5182.9577 • Fax: +55 11 5181.2300

www.civitella.com.br