



Wire Pulling Grips Guide

2026





Rogelio Barrios, Grip Assembler,
42 years at Klein Tools

Built in Elk Grove, Illinois.

Our grips are manufactured at Klein Tools' Elk Grove facility, where specialized equipment and experienced teams oversee every stage of production. This in-house manufacturing approach supports quality control and consistent performance across the line.

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WIRE TYPE



**Engineered for Every Wire.
Built for Every Job.**

For generations, Klein Tools has designed products professionals rely on to get the job done right. Our complete line of grips is engineered to deliver dependable performance across a wide range of wire types and applications. From bare conductors to insulated cable, each grip is built with the strength, control, and durability expected on demanding jobsites.



BARE WIRE CONDUCTORS

Klein Tools' grips for bare wire conductors are designed for use with solid and stranded wire across a range of sizes. Suitable for pulling and tensioning applications, this line supports the practical requirements of utility and industrial work environments.



Chicago® Grips

Authentic Chicago® Grips are designed to work with solid and stranded bare wire from 0.080" to 1.890" (2.00 mm to 48.00 mm). Locking loop handles allow the jaws to be held in an open position for easy placement on wire or cable.

1656-40H pictured



Parallel Grips

Parallel Grips are designed to work with solid and stranded bare wire from 0.100" to 1.424" (2.50 mm to 36.20 mm). Locking handles allow the jaws to be held in an open position for easy placement on wire or cable.

16499 pictured

CHICAGO® BARE GRIPS										
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight	
AAC, ACSR, Copper	0.080" - 0.200" (2.03 mm - 5.08 mm)	1,500 lbs. (680 kg)	1613-30		✓	✓	Single V	3.0" (76.2 mm)	1.5 lbs. (0.7 kg)	
	#6 and #8 AWG Bare Copper		1613-35		✓	✓		4.2" (106.4 mm)	2.9 lbs. (1.3 kg)	
			1613-35H	✓	✓	✓		3.1 lbs. (1.4 kg)		
	0.200" - 0.400" (5.08 mm - 10.16 mm)	4,500 lbs. (2,041 kg)	1656-20			✓	✓	Round, Smooth	4.0" (101.6 mm)	2.7 lbs. (1.2 kg)
			1656-20H	✓		✓	✓		3.1 lbs. (1.4 kg)	
			S1656-20H	✓	✓	✓				
			1656-30			✓	✓		3.4 lbs. (1.5 kg)	
			1656-30H	✓		✓	✓		4.0 lbs. (1.8 kg)	
			S1656-30H	✓	✓	✓				
	0.530" - 0.740" (13.46 mm - 18.80 mm)		1656-40			✓	✓	Round, Smooth	7.4 lbs. (3.4 kg)	
			1656-40H	✓		✓	✓		8.5 lbs. (3.9 kg)	
			S1656-40H	✓	✓	✓				
			1656-50			✓	✓		7.5 lbs. (3.4 kg)	
			1656-50H	✓		✓	✓		8.5 lbs. (3.8 kg)	
S1656-50H			✓	✓	✓					
0.740" - 0.860" (18.80 mm - 21.84 mm)	8,000 lbs. (3,628 kg)	1656-60			✓	✓	Round, Smooth	7.8 lbs. (3.5 kg)		
		1656-60H	✓		✓	✓		8.4 lbs. (3.8 kg)		
		S1656-60H	✓	✓	✓					
		1656-60			✓	✓		7.3" (184.6 mm)	13.7 lbs. (6.2 kg)	
Custom item please see page 32, 33 for specifics	15,000 lbs. (6,803 kg)	1628-16P			✓	✓	Round, Smooth	27.0 lbs. (12.2 kg)		
Custom item please see page 32, 33 for specifics	20,000 lbs. (9,070 kg)	1628-30			✓	✓		34.0 lbs. (15.4 kg)		
AAC, ACSR, Copper, ACSS, ACSS/TW	Custom item please see page 32, 33 for specifics	25,000 lbs. (11,338 kg)	1628-40			✓	✓	Round, Smooth	34.0 lbs. (15.4 kg)	
	Custom item please see page 32, 33 for specifics		1628-50*			✓	✓		34.0 lbs. (15.4 kg)	

PARALLEL GRIPS (BARE WIDE RANGE)									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
AAC, ACSR, Copper	0.100" - 0.654" (2.54 mm - 16.61 mm)	2,000 lbs. (907 kg)	16455		✓		Round, Coarse Tooth	2.2" (55.9 mm)	1.4 lbs. (0.6 kg)
	0.162" - 0.883" (4.11 mm - 22.43 mm)	5,000 lbs. (2,268 kg)	16477			✓		Round, Fine Tooth	2.9 lbs. (1.3 kg)
			16477-20	✓	✓	✓	3.3" (84.1 mm)		3.2 lbs. (1.5 kg)
			KT4500			✓			
	0.180" - 0.600" (4.57 mm - 15.24 mm)		KT4501	✓	✓	✓	4.0" (101.6 mm)	3.8 lbs. (1.7 kg)	
			KT4502	✓					
	0.300" - 0.800" (7.62 mm - 20.32 mm)	10,000 lbs. (4,535 kg)	KT4600			✓		Round, Fine Tooth	7.0 lbs. (3.2 kg)
			KT4601	✓	✓	✓	5.0" (127.0 mm)		
			KT4602	✓					
	0.684" - 1.424" (17.37 mm - 36.17 mm)	12,000 lbs. (5,442 kg)	16499			✓		Round, Fine Tooth	8.1 lbs. (3.7 kg)
			16499-20	✓	✓	✓	4.9" (123.2 mm)		8.3 lbs. (3.8 kg)
			KT4800			✓			
KT4801			✓	✓	✓	5.1" (130.3 mm)	9.0 lbs. (4.1 kg)		
KT4802			✓						



COVERED CONDUCTORS



Klein Tools' grips for covered conductors are designed for use with a wide range of coated and weather-resistant wire types. Suited for pulling and tensioning applications, this line supports the installation and maintenance needs of utility and industrial environments.



Chicago® Grips

Authentic Chicago® Grips are designed to work with covered conductors from 0.200" to 1.000" (5.08 mm to 25.40 mm). Locking loop handles allow the jaws to be held in an open position for easy placement on wire or cable.

1611-20 pictured



Parallel Grips

Parallel Grips are designed to work with covered conductors from 0.162" to 1.610" (4.11 mm to 40.90 mm). Locking handles allow the jaws to be held in an open position for easy placement on wire or cable.

16477-28 pictured

See Wire Pulling Grip Warnings on the inside back cover.

CHICAGO® COVERED GRIPS									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
Covered Conductor (PVC, LDPE)	0.200" - 0.400" (5.08 mm - 10.16 mm)	4,500 lbs. (2,041 kg)	1611-20				Notched	3.0" (76.2 mm)	1.5 lbs. (0.7 kg)
	0.310" - 0.530" (7.87 mm - 13.46 mm)		1611-30	✓	✓				
	0.530" - 0.700" (13.46 mm - 17.78 mm)	8,000 lbs. (3,628 kg)	1611-40		✓	✓	Notched	4.2" (106.4 mm)	2.9 lbs. (1.3 kg)
	0.740" - 0.860" (18.80 mm - 21.84 mm)		1611-50	✓	✓	3.1 lbs. (1.4 kg)			
	0.200" - 0.420" (5.08 mm - 10.67 mm)	4,500 lbs. (2,041 kg)	1659-20		✓	✓	Serpentine (Smiley Jaw)	4.0" (101.6 mm)	2.7 lbs. (1.2 kg)
	0.310" - 0.500" (7.87 mm - 12.70 mm)		1659-30	✓	✓	3.1 lbs. (1.4 kg)			
	0.200" - 0.370" (5.08 mm - 9.40 mm)	5,000 lbs. (2,268 kg)	1659-5AT		✓	✓	Serpentine (Smiley Jaw)	4.8" (120.7 mm)	3.4 lbs. (1.5 kg)
	0.490" - 0.790" (12.45 mm - 20.07 mm)	8,000 lbs. (3,628 kg)	1659-40	✓	✓	4.0 lbs. (1.8 kg)			
	0.790" - 1.000" (20.07 mm - 25.40 mm)		1659-50	✓	✓				

PARALLEL GRIPS (COVERED WIDE RANGE)									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
HDPE Covered (Tree Wire)	0.625" - 1.362" (15.90 mm - 34.60 mm)	4,000 lbs. (1,814 kg)	1716-70		✓		Round, Grit	4.5" (114.0 mm)	5.1 lbs. (2.3 kg)
	0.870" - 1.610" (22.10 mm - 40.90 mm)		1716-71	✓	✓	✓			
	0.162" - 0.883" (4.11 mm - 22.43 mm)	5,000 lbs. (2,268 kg)	16499-28		✓		Round, Grit	4.4" (110.5 mm)	5.1 lbs. (2.3 kg)
	0.700" - 1.300" (17.78 mm - 33.02 mm)		16477-28	✓		2.9 lbs. (1.3 kg)			
			1716-60		✓		5.1" (130.0 mm)	8.1 lbs. (3.7 kg)	



See Wire Pulling Grip Warnings on the inside back cover.

WIRE TYPE

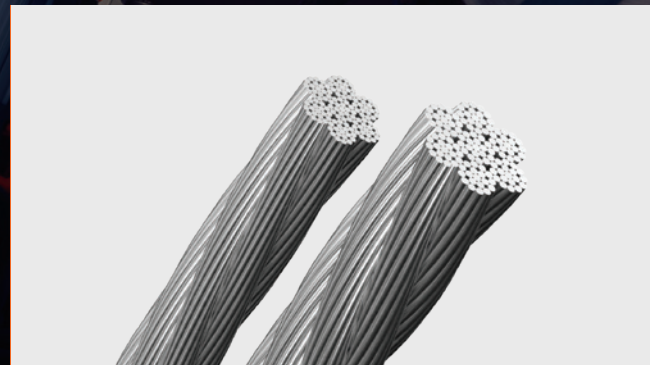
GRIP TYPE

WIRE CHARTS

RESOURCES



WIRE ROPE



Klein Tools' Haven's® grips are designed to engage securely with stranded wire rope commonly used in guying, suspension, and support applications. Suitable for pulling and tensioning tasks, this line is built to meet the practical demands of utility and industrial environments.



Haven's® Grip

Haven's® Grips are designed for use when a light, compact grip is desired, and when conductor deformation is not a factor. Gripping pressure of the knurled jaw is applied to 0.250" (6.35 mm) wire rope area. All 1625 series have a swing latch to help retain wire rope in the jaw.

1604-20 pictured

HAVEN'S® GRIPS - "PORK CHOP"								
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Swing Latch	Spring	Locking Handle	Jaw Length	Approx. Weight
Messenger	0.750" - 1.250" (19.00 mm - 31.70 mm)	2,000 lbs. (907 kg)	1625-20-114	✓				3.7 lbs. (1.7 kg)
	0.060" - 0.250" (1.52 mm - 6.35 mm)	2,500 lbs. (1,134 kg)	1604-10					1.0 lb. (0.5 kg)
	0.125" - 0.500" (3.18 mm - 12.70 mm)	5,000 lbs. (2,268 kg)	1604-20					2.2 lbs. (1.0 kg)
EHS, Guy Strand, Messenger			1604-20L	✓				2.6 lbs. (1.2 kg)
	0.280" - 0.750" (7.11 mm - 19.05 mm)		1625-20	✓				3.5 lbs. (1.6 kg)
	0.380" - 0.880" (9.65 mm - 22.35 mm)	8,000 lbs. (3,629 kg)	1625-20-7/8	✓				3.4 lbs. (1.5 kg)
	0.500" - 1.000" (12.70 mm - 25.40 mm)		1625-20-1	✓				3.4 lbs. (1.5 kg)



GUY STRAND EHS

Klein Tools' grips for EHS guy strand are designed for use with extra-high strength stranded wire commonly used in guying and support systems. Suited for pulling and tensioning applications, this line supports installation and maintenance requirement of utility environments.



Chicago® Grips

Authentic Chicago® Grips are designed to work with steel wire from 0.120" to 1.000" (3.10 mm to 25.40 mm). Locking loop handles allow the jaws to be held in an open position for easy placement on wire or wire rope.

1684-5F pictured



Parallel Grips

Parallel Grips are designed to work with steel wire from 0.100" to 1.250" (2.50 mm to 31.80 mm).

16477-24 pictured

See Wire Pulling Grip Warnings on the inside back cover.

CHICAGO® GRIPS										
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight	
Aircraft, EHS, Guy Strand, Messenger	0.120" - 0.370" (3.05 mm - 9.40 mm)	4,500 lbs. (2,041 kg)	1613-40		✓	✓	Double V	4.2" (106.4 mm)	3.0 lbs. (1.5 kg)	
			1613-40H	✓		✓			3.2 lbs. (1.6 kg)	
			S1613-40H	✓	✓	✓				
	0.218" - 0.550" (5.54 mm - 13.97 mm)	8,000 lbs. (3,628 kg)	1684-5			✓	✓	Double V	5.0" (127.0 mm)	5.8 lbs. (2.9 kg)
			1684-5H	✓		✓	6.7 lbs. (3.3 kg)			
			S1684-5H	✓	✓	✓				
			1684-5C			✓	✓	Round, Sawtooth	6.3 lbs. (3.1 kg)	
			1684-5CAT			✓	✓		6.9 lbs. (3.4 kg)	
	0.160" - 0.550" (4.06 mm - 13.97 mm)	15,000 lbs. (6,803 kg)	1684-5F			✓	✓	Sawtooth File, Single V	7.3" (184.2 mm)	6.4 lbs. (3.2 kg)
			1684-74			✓	✓	Curved, Double V		5.6 lbs. (2.8 kg)
			1684-74H	✓	✓	✓	4.5 lbs. (2.2 kg)			
			1692-5			✓	✓	Double V		5.4 lbs. (2.7 kg)
			1692-5AT			✓	✓			6.6 lbs. (3.3 kg)
			1628-16			✓	✓			
	0.310" - 0.620" (7.87 mm - 15.75 mm)	15,000 lbs. (6,803 kg)	1628-16AT			✓	✓	Double V	7.3" (184.2 mm)	15.8 lbs. (7.8 kg)
			1628-17			✓	✓			16.3 lbs. (8.0 kg)
	0.500" - 0.750" (12.70 mm - 19.05 mm)	15,000 lbs. (6,803 kg)	1628-18			✓	✓		15.7 lbs. (7.8 kg)	

PARALLEL GRIPS (WIDE RANGE)										
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Swing Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight	
EHS, Guy Strand, Messenger	0.100" - 0.650" (2.54 mm - 16.51 mm)	2,000 lbs. (907 kg)	16455		✓		Round, Coarse Tooth	2.2" (55.9 mm)	1.4 lbs. (0.6 kg)	
	0.157" - 0.875" (3.98 mm - 22.22 mm)	4,500 lbs. (2,040 kg)	1685-20		✓		Round, Coarse Tooth	2.5" (64.0 mm)	2.6 lbs. (1.2 kg)	
	0.162" - 0.883" (4.11 mm - 22.43 mm)	5,000 lbs. (2,268 kg)	16477-24			✓		Round, Coarse Tooth	3.3" (84.1 mm)	2.9 lbs. (1.3 kg)
			KT4500-5C			✓			4.0" (101.6 mm)	3.8 lbs. (1.7 kg)
	0.625" - 1.250" (15.87 mm - 31.75 mm)	7,500 lbs. (3,400 kg)	1685-31			✓		Round, Coarse Tooth	4.5" (114.0 mm)	4.8 lbs. (2.2 kg)
	0.300" - 0.800" (7.62 mm - 20.30 mm)		1685-50C			✓		Round, Coarse Tooth	5.0" (127.0 mm)	7.0 lbs. (3.2 kg)
	0.200" - 0.400" (5.08 mm - 10.16 mm)	10,000 lbs. (4,535 kg)	1686-10		✓			Double V	4.4" (111.0 mm)	4.6 lbs. (2.1 kg)
			1686-20		✓			Double V - Sawtooth		
			1671-10		✓			Double V		
	0.370" - 0.750" (9.40 mm - 19.05 mm)		1672-10		✓			Double V - Sawtooth		4.3 lbs. (2.0 kg)

See Wire Pulling Grip Warnings on the inside back cover.

WIRE TYPE

GRIP TYPE

WIRE CHARTS

RESOURCES

GRIP TYPE

Made for the Line.

Klein Tools' grips are built on a long-standing tradition of quality and field-driven design. With a range of styles engineered to suit different cable and wire types and applications, each grip is manufactured with durability in mind. Designed for the work that keeps infrastructure moving, they remain a trusted part of the jobsite.



WIRE TYPE

GRIP TYPE

WIRE CHARTS

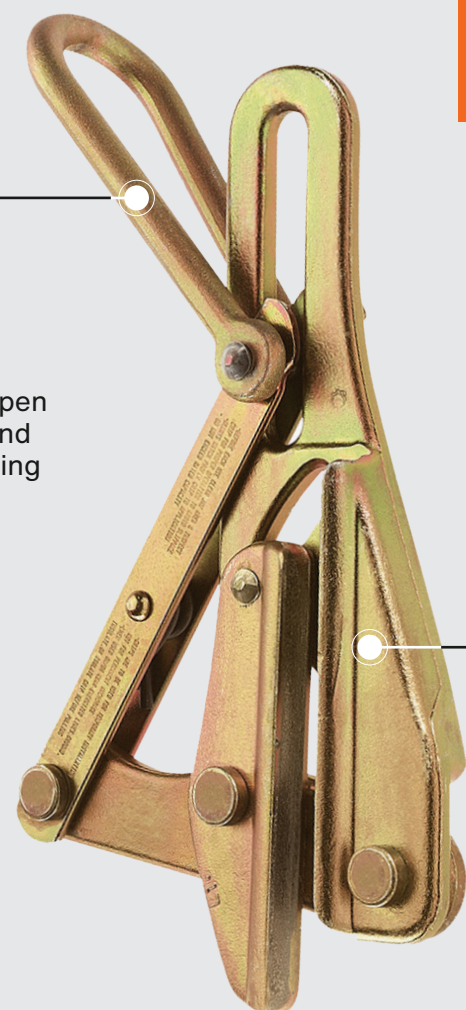
RESOURCES

CHICAGO® BARE

Designed for use with solid and stranded bare conductors across a range of sizes. Featuring a parallel jaw design and locking loop handles, these grips allow for controlled engagement and consistent contact during pulling and tensioning applications. Built for long-term use, they are suited for utility and industrial environments where dependable performance is required.



Best for overhead distribution and general bare wire installation.



LOCKING LOOP HANDLE

Allow jaws to remain open for easier placement and more efficient positioning on conductors.

OPTIMIZED JAW DESIGN

Round or V-shaped to maximize contact with deforming conductors.

1656-20

CHICAGO® BARE GRIPS									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
AAC, ACSR, Copper	0.080" - 0.200" (2.03 mm - 5.08 mm)	1,500 lbs. (680 kg)	1613-30		✓	✓	Single V	3.0" (76.2 mm)	1.5 lbs. (0.7 kg)
	#6 and #8 AWG Bare Copper		1613-35		✓	✓	Round, Smooth	4.2" (106.4 mm)	2.9 lbs. (1.3 kg)
			1613-35H	✓	✓	3.1 lbs. (1.4 kg)			
			1656-20		✓	✓			2.7 lbs. (1.2 kg)
	0.200" - 0.400" (5.08 mm - 10.16 mm)	4,500 lbs. (2,041 kg)	1656-20H	✓		✓	Round, Smooth	4.0" (101.6 mm)	3.1 lbs. (1.4 kg)
			S1656-20H	✓	✓	✓			3.4 lbs. (1.5 kg)
			1656-30		✓	✓			4.0 lbs. (1.8 kg)
	0.310" - 0.530" (7.87 mm - 13.46 mm)		1656-30H	✓		✓	Round, Smooth	4.8" (120.7 mm)	7.4 lbs. (3.4 kg)
			S1656-30H	✓	✓	✓			8.5 lbs. (3.9 kg)
			1656-40		✓	✓			7.5 lbs. (3.4 kg)
	0.530" - 0.740" (13.46 mm - 18.80 mm)		1656-40H	✓		✓	Round, Smooth	5.5" (139.7 mm)	8.5 lbs. (3.8 kg)
			S1656-40H	✓	✓	✓			7.8 lbs. (3.5 kg)
			1656-50		✓	✓			8.4 lbs. (3.8 kg)
	0.740" - 0.860" (18.80 mm - 21.84 mm)	8,000 lbs. (3,628 kg)	1656-50H	✓		✓	Round, Smooth	7.3" (184.6 mm)	13.7 lbs. (6.2 kg)
S1656-50H			✓	✓	✓	27.0 lbs. (12.2 kg)			
1656-60				✓	✓	34.0 lbs. (15.4 kg)			
0.860" - 0.960" (21.84 mm - 24.38 mm)		1656-60H	✓		✓	Round, Smooth	10.8" (273.1 mm)	34.0 lbs. (15.4 kg)	
		S1656-60H	✓	✓	✓			34.0 lbs. (15.4 kg)	
		Custom item please see page 32, 33 for specifics	15,000 lbs. (6,803 kg)	1628-16P				✓	✓
Custom item please see page 32, 33 for specifics	20,000 lbs. (9,070 kg)	1628-30		✓	✓	Round, Smooth		27.0 lbs. (12.2 kg)	
AAC, ACSR, Copper, ACSS, ACSS/TW	Custom item please see page 32, 33 for specifics	25,000 lbs. (11,338 kg)	1628-40		✓	✓	Round, Smooth	10.8" (273.1 mm)	34.0 lbs. (15.4 kg)
	Custom item please see page 32, 33 for specifics		1628-50*		✓	✓	Round, Smooth		34.0 lbs. (15.4 kg)



S1656-20H | Faster Set Up. Controlled Engagement.

- Hot latch** – provides quick, secure jaw closure for efficient placement and removal.
- Spring** – assists with smooth opening and closing for easier handling during set up.
- Locking loop handle** – allow jaws to remain open for simplified positioning on the conductor.



*1628-50-series requires jaw removal to insert conductor.

CHICAGO® STEEL

Designed for use with stranded steel wire, including messenger and guy strand. Featuring a parallel jaw design for consistent contact along the wire, these grips support pulling and tensioning applications across utility and infrastructure projects, perfect for demanding environments.



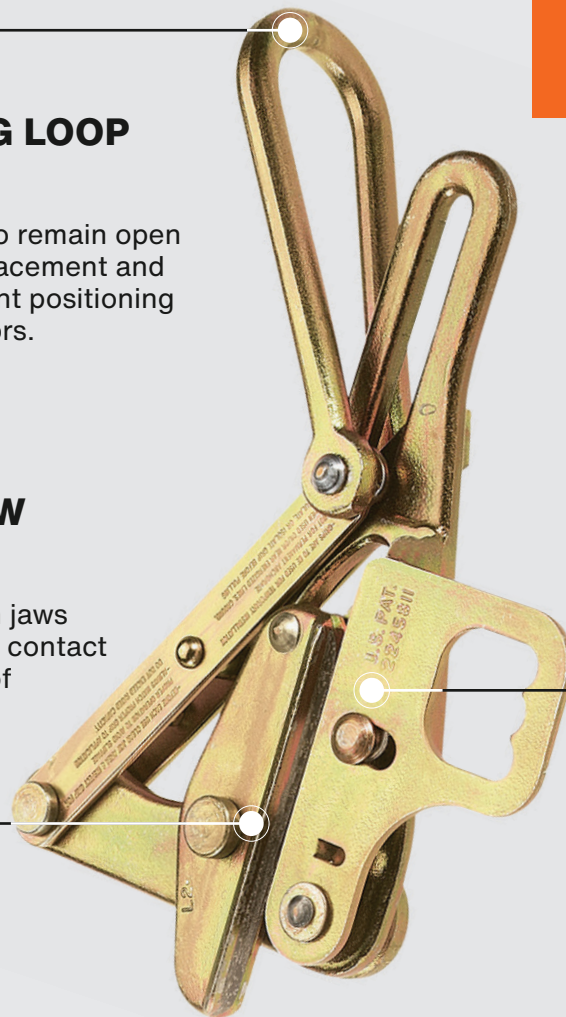
Best for pulling and tensioning messenger strand and EHS guy wire.

LOCKING LOOP HANDLE

Allow jaws to remain open for easier placement and more efficient positioning on conductors.

VERSATILE JAW OPTIONS

Sawtooth and smooth jaws deliver strong, secure contact across a wide range of conductor types.



FORGED FOR PERFORMANCE

Made from custom drop-forged steel, machined and heat-treated for superior strength and durability.

1613-40

CHICAGO® GRIPS										
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight	
Aircraft, EHS, Guy Strand, Messenger	0.120" - 0.370" (3.05 mm - 9.40 mm)	4,500 lbs. (2,041 kg)	1613-40		✓	✓	Double V	4.2" (106.4 mm)	3.0 lbs. (1.5 kg)	
			1613-40H	✓		✓			3.2 lbs. (1.6 kg)	
			S1613-40H	✓	✓	✓				
	0.218" - 0.550" (5.54 mm - 13.97 mm)	8,000 lbs. (3,628 kg)	1684-5			✓	✓	Double V	5.8 lbs. (2.9 kg)	
			1684-5H	✓		✓	6.7 lbs. (3.3 kg)			
			S1684-5H	✓	✓	✓				
			1684-5C			✓	✓	Round, Sawtooth	6.3 lbs. (3.1 kg)	
			1684-5CAT			✓	✓		6.9 lbs. (3.4 kg)	
			1684-5F				✓	✓	Sawtooth File, Single V	5.0" (127.0 mm)
	0.218" - 0.550" (5.54 mm - 13.97 mm)	8,000 lbs. (3,628 kg)	1684-74			✓	✓	Curved, Double V	5.6 lbs. (2.8 kg)	
			1684-74H	✓	✓	✓		4.5 lbs. (2.2 kg)		
			1692-5			✓	✓	Double V	5.4 lbs. (2.7 kg)	
	0.310" - 0.620" (7.87 mm - 15.75 mm)	15,000 lbs. (6,803 kg)	1628-16			✓	✓	Double V	7.3" (184.2 mm)	15.3 lbs. (7.6 kg)
			1628-16AT			✓	✓			15.8 lbs. (7.8 kg)
			1628-17			✓	✓			16.3 lbs. (8.0 kg)
			1628-18			✓	✓			15.7 lbs. (7.8 kg)



S1613-40H | Faster Set Up. Controlled Engagement.

- Hot latch** – provides quick, secure jaw closure for efficient placement and removal.
- Spring** – assists with smooth opening and closing for easier handling during set up.
- Locking loop handle** – allow jaws to remain open for simplified positioning on the conductor.



See Wire Pulling Grip Warnings on the inside back cover.

CHICAGO® COVERED

Designed for use with coated and weather-resistant conductors. The parallel jaw design helps provide consistent contact along the conductor, while the locking latch handles support efficient placement and engagement.



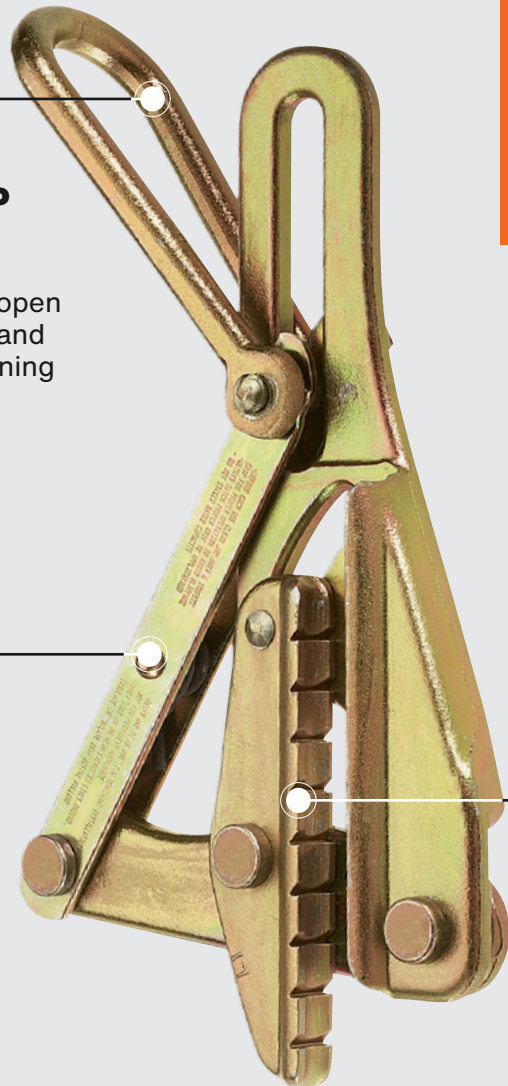
Best for overhead distribution installation and maintenance involving covered conductors.

LOCKING LOOP HANDLE

Allow jaws to remain open for easier placement and more efficient positioning on conductors.

SPRING

For smooth jaw opening and closing.



SERRATED JAW

Serpentine or notched jaws bite firmly on conductors to maintain a secure hold and reduce slippage during heavy pulling loads.

1611-30

CHICAGO® COVERED GRIPS									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
Covered Conductor (PVC, LDPE)	0.200" - 0.400" (5.08 mm - 10.16 mm)	4,500 lbs. (2,041 kg)	1611-20		✓	✓	Notched	4.2" (106.4 mm)	2.6 lbs. (1.2 kg)
	1611-30			✓	✓	4.8" (120.7 mm)		3.4 lbs. (1.5 kg)	
	0.530" - 0.700" (13.46 mm - 17.78 mm)	8,000 lbs. (3,628 kg)	1611-40		✓	✓	Notched	5.7" (144.5 mm)	7.4 lbs. (3.4 kg)
	1611-50			✓	✓				
	0.200" - 0.420" (5.08 mm - 10.67 mm)	4,500 lbs. (2,041 kg)	1659-20		✓	✓	Serpentine (Smiley Jaw)	4.2" (106.4 mm)	3.0 lbs. (1.4 kg)
	1659-30			✓	✓	4.8" (120.7 mm)		3.8 lbs. (1.7 kg)	
	0.200" - 0.370" (5.08 mm - 9.40 mm)	5,000 lbs. (2,268 kg)	1659-5AT		✓	✓	Serpentine (Smiley Jaw)	5.0" (127.0 mm)	6.7 lbs. (3.0 kg)
	0.490" - 0.790" (12.45 mm - 20.07 mm)	8,000 lbs. (3,628 kg)	1659-40		✓	✓	Serpentine (Smiley Jaw)	5.7" (144.5 mm)	7.8 lbs. (3.5 kg)
	1659-50			✓	✓				



1659-30 | Faster Set Up. Controlled Engagement.

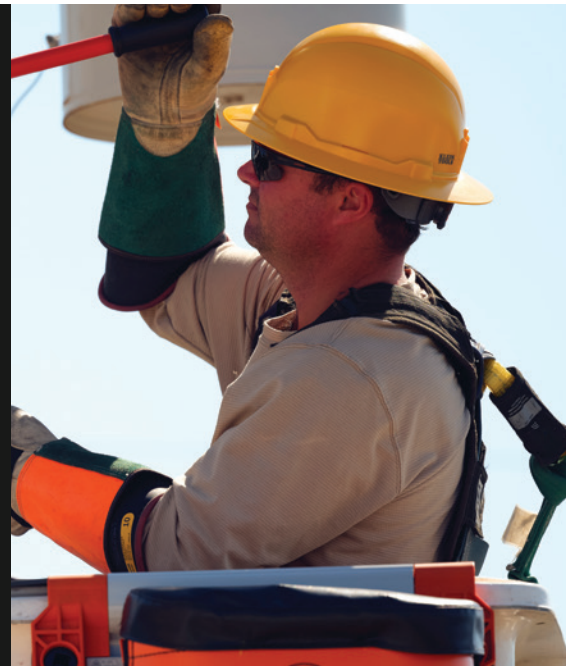
Spring – assists with smooth opening and closing for easier handling during set up.
Locking loop handle – allow jaws to remain open for simplified positioning on the conductor.



See Wire Pulling Grip Warnings on the inside back cover.

PARALLEL BARE

Designed to engage solid and stranded bare conductors with balanced, even pressure along the wire. The straight jaw alignment helps maintain steady contact during pulling and tensioning, making them suitable for overhead and general line work.



Best for overhead conductor stringing and line maintenance.

LARGE OPENING

For easy storage, handling, and wide range of hooks.



CONTROLLED CONDUCTOR BITE

Round fine-tooth or course-tooth jaws provide reliable holding power while adapting to different conductor and pull loads.

16477

PARALLEL GRIPS (WIDE RANGE)										
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight	
AAC, ACSR, Copper	0.100" - 0.650" (2.54 mm - 16.51 mm)	2,000 lbs. (907 kg)	16455		✓		Round, Coarse Tooth	2.2" (55.9 mm)	1.4 lbs. (0.6 kg)	
	0.162" - 0.883" (4.11 mm - 22.43 mm)		16477		✓			3.3" (84.1 mm)	2.9 lbs. (1.3 kg)	
			16477-20	✓	✓	✓			3.2 lbs. (1.5 kg)	
	0.180" - 0.600" (4.57 mm - 15.24 mm)	5,000 lbs. (2,268 kg)	KT4500			✓		4.0" (101.6 mm)	3.8 lbs. (1.7 kg)	
			KT4501	✓	✓	✓				
			KT4502	✓						
	0.300" - 0.800" (7.62 mm - 20.32 mm)	10,000 lbs. (4,535 kg)	KT4600			✓		Round, Fine Tooth	5.0" (127.0 mm)	7.0 lbs. (3.2 kg)
			KT4601	✓	✓	✓				
			KT4602	✓						
	0.684" - 1.424" (17.37 mm - 36.17 mm)	12,000 lbs. (5,442 kg)	16499			✓		4.9" (123.2 mm)	8.1 lbs. (3.7 kg)	
			16499-20	✓	✓	✓			8.3 lbs. (3.8 kg)	
			KT4800			✓				
0.700" - 1.250" (17.78 mm - 31.75 mm)		KT4801	✓	✓	✓		5.1" (130.3 mm)	9.0 lbs. (4.1 kg)		
		KT4802	✓							



16499-20 | Faster Set Up. Controlled Engagement.

Hot latch – provides quick, secure jaw closure for efficient placement and removal.
Spring – assists with smooth opening and closing for easier handling during set up.
Locking handle – allow jaws to remain open for simplified positioning on the conductor.



See Wire Pulling Grip Warnings on the inside back cover.

PARALLEL STEEL

Designed for use with stranded steel wire rope, including guy strand and messenger wire. The parallel jaw alignment promotes even contact along the strand to support controlled pulling and tensioning applications.



Best for pole setting, guying, and messenger strand work.

LARGE OPENING

For easy storage, handling, and wide range of hooks.



APPLICATION-SPECIFIC JAWS

Round coarse-tooth, double V, or double V sawtooth jaws help maintain a secure hold on different conductor types during pulling applications.

16477-24

PARALLEL GRIPS (WIDE RANGE)									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Swing Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
EHS, Guy Strand, Messenger	0.100" - 0.650" (2.54 mm - 16.51 mm)	2,000 lbs. (907 kg)	16455		✓		Round, Coarse Tooth	2.2" (55.9 mm)	1.4 lbs. (0.6 kg)
	0.157" - 0.875" (3.98 mm - 22.22 mm)	4,500 lbs. (2,040 kg)	1685-20		✓		Round, Coarse Tooth	2.5" (64.0 mm)	2.6 lbs. (1.2 kg)
	0.162" - 0.883" (4.11 mm - 22.43 mm)	5,000 lbs. (2,268 kg)	16477-24		✓		Round, Coarse Tooth	3.3" (84.1 mm)	2.9 lbs. (1.3 kg)
	0.180" - 0.600" (4.57 mm - 15.24 mm)		KT4500-5C		✓			4.0" (101.6 mm)	3.8 lbs. (1.7 kg)
	0.625" - 1.250" (15.87 mm - 31.75 mm)	7,500 lbs. (3,400 kg)	1685-31		✓		Round, Coarse Tooth	4.5" (114.0 mm)	4.8 lbs. (2.2 kg)
	0.300" - 0.800" (7.62 mm - 20.30 mm)	10,000 lbs. (4,535 kg)	1685-50C		✓		Round, Coarse Tooth	5.0" (127.0 mm)	7.0 lbs. (3.2 kg)
	0.200" - 0.400" (5.08 mm - 10.16 mm)		1686-10	✓		Double V	4.4" (111.0 mm)	4.6 lbs. (2.1 kg)	
	0.200" - 0.400" (5.08 mm - 10.16 mm)		1686-20	✓		Double V - Sawtooth		4.6 lbs. (2.1 kg)	
	0.370" - 0.750" (9.40 mm - 19.05 mm)		1671-10	✓		Double V		4.3 lbs. (2.0 kg)	
	0.370" - 0.750" (9.40 mm - 19.05 mm)		1672-10	✓		Double V - Sawtooth		4.3 lbs. (2.0 kg)	



PARALLEL COVERED

Designed for use with covered and weather-resistant conductors commonly found in overhead distribution systems. The parallel jaw alignment supports even contact along the conductor with controlled pulling and tensioning during installation and maintenance. Built for repeat field use, these grips are suited for distribution line work where covered wire is required.



Best for stringing and tensioning covered conductors in overhead distribution systems.

LARGE OPENING

For easy storage, handling, and wide range of hooks.



ROUND GRIT JAW

Provides strong holding power while helping minimize damage to covered or insulated conductors.

SPRING

For smoother jaw opening and closing.

16477-28

PARALLEL GRIPS (COVERED WIDE RANGE)									
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Type	Jaw Length	Approx. Weight
Tree Wire	0.625" - 1.362" (15.90 mm - 34.60 mm)	4,000 lbs. (1,814 kg)	1716-70		✓		Round, Grit	4.5" (114.0 mm)	5.1 lbs. (2.3 kg)
			1716-71	✓	✓	✓			
HDPE Covered (Tree Wire)	0.870" - 1.610" (22.10 mm - 40.90 mm)	5,000 lbs. (2,268 kg)	16499-28		✓		Round, Grit	4.4" (110.5 mm)	7.5 lbs. (3.4 kg)
	0.162" - 0.883" (4.11 mm - 22.43 mm)		16477-28		✓				
	0.700" - 1.300" (17.78 mm - 33.02 mm)		1716-60		✓				



1716-71 | Faster Set Up. Controlled Engagement.

- Hot latch** – provides quick, secure jaw closure for efficient placement and removal.
- Spring** – assists with smooth opening and closing for easier handling during set up.
- Locking handle** – allow jaws to remain open for simplified positioning on the conductor.



HAVEN'S®

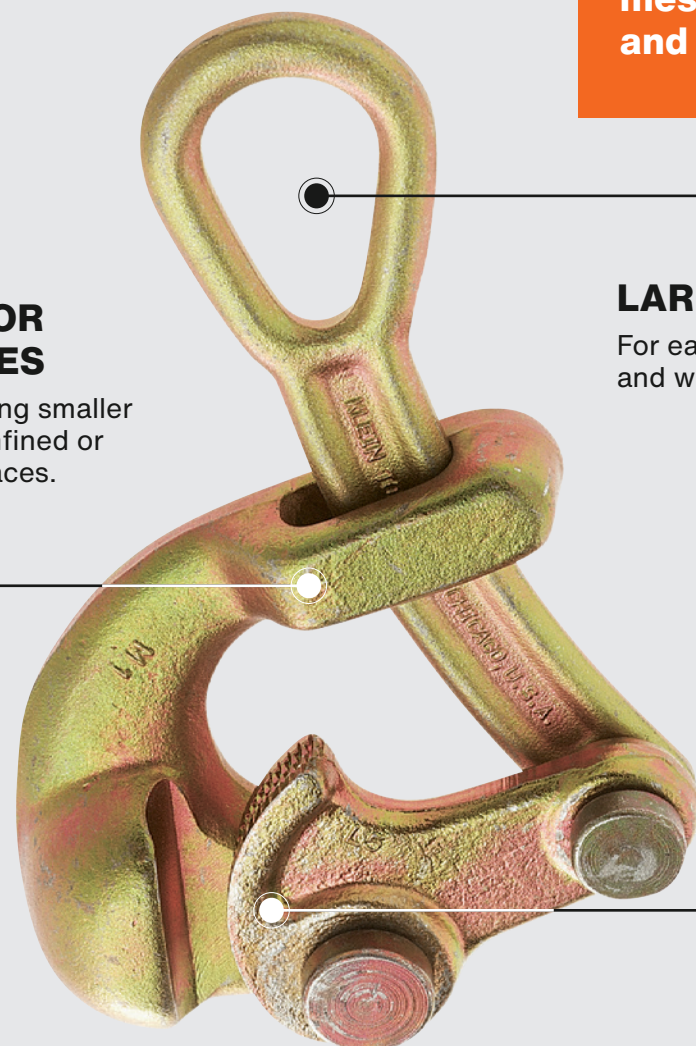
Designed for use with stranded wire rope, messenger, and guy strand applications. Featuring a round jaw profile that conforms to the wire rope, they support secure engagement during pulling and tensioning tasks. These grips are suited for utility and infrastructure installation work when conductor deformation is not a factor.



Best for guying, messenger strand work, and wire rope tensioning.

COMPACT FOR TIGHT SPACES

Designed for pulling smaller conductors in confined or hard-to-reach spaces.



LARGE OPENING

For easy storage, handling, and wide range of hooks.

ROUND KNURLED JAW

Conforms to the wire's shape and increases surface contact for secure grip.

1604-20

See Wire Pulling Grip Warnings on the inside back cover.

HAVEN'S® GRIPS - "PORK CHOP"							
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Swing Latch	Spring	Locking Handle	Approx. Weight
EHS, Guy Strand, Messenger	0.750" - 1.250" (19.00 mm - 31.70 mm)	2,000 lbs. (907 kg)	1625-20-114	✓			3.7 lbs. (1.7 kg)
	0.060" - 0.250" (1.52 mm - 6.35 mm)	2,500 lbs. (1,134 kg)	1604-10				1.0 lb. (0.5 kg)
	0.125" - 0.500" (3.18 mm - 12.70 mm)	5,000 lbs. (2,268 kg)	1604-20				2.2 lbs. (1.0 kg)
			1604-20L	✓			2.6 lbs. (1.2 kg)
	0.280" - 0.750" (7.11 mm - 19.05 mm)		1625-20	✓			3.5 lbs. (1.6 kg)
	0.380" - 0.880" (9.65 mm - 22.35 mm)	8,000 lbs. (3,629 kg)	1625-20-7/8	✓			3.4 lbs. (1.5 kg)
0.500" - 1.000" (12.70 mm - 25.40 mm)		1625-20-1	✓			3.4 lbs. (1.5 kg)	



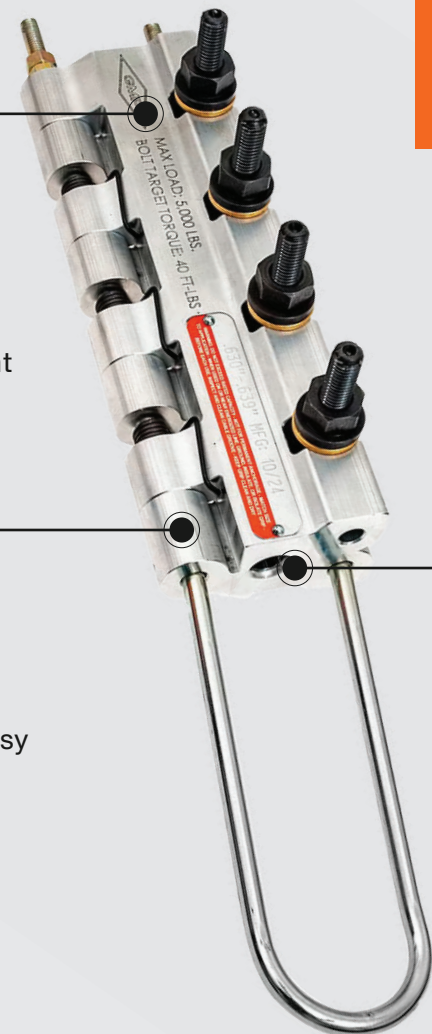
See Wire Pulling Grip Warnings on the inside back cover.

POCKET-BOOK

Pocketbook grips are designed for durability and easy, one-handed installation. The lightweight and high-precision design prevents crushing or damaging the fiber. The self-closing design allows users to snap the grip onto the line and tighten it, improving efficiency on the job.



Best for stringing and tensioning with bend and crush sensitive conductors.



LIGHTWEIGHT ALUMINUM BODY

Dependable performance with reduced overall weight and easier handling.

SELF-CLOSING

Spring-loaded hinge firmly closes onto the wire for easy one-handed use.

ROUND SMOOTH JAW

Grip conductors securely while helping minimize surface damage.

76000

POCKETBOOK GRIPS						
WIRE TYPE	Min. to Max. Wire Diameter	Max. Safe Load	Klein Cat. No.	Jaw Length	Jaw Type	Approx. Weight
	0.380" - 0.389" (9.65 mm - 9.88 mm)		76000-380389			
	0.390" - 0.399" (9.91 mm - 10.13 mm)		76000-390399			
	0.400" - 0.409" (10.16 mm - 10.39 mm)		76000-400409			
	0.410" - 0.419" (10.41 mm - 10.64 mm)		76000-410419			
	0.420" - 0.429" (10.67 mm - 10.90 mm)		76000-420429			
	0.430" - 0.439" (10.92 mm - 11.15 mm)		76000-430439			
	0.440" - 0.449" (11.18 mm - 11.40 mm)		76000-440449			
	0.450" - 0.459" (11.43 mm - 11.66 mm)		76000-450459			
	0.460" - 0.469" (11.68 mm - 11.91 mm)		76000-460469			
	0.470" - 0.479" (11.94 mm - 12.17 mm)		76000-470479			
	0.480" - 0.489" (12.19 mm - 12.42 mm)		76000-480489			
	0.490" - 0.499" (12.45 mm - 12.67 mm)		76000-490499			
	0.500" - 0.509" (12.70 mm - 12.93 mm)		76000-500509			
	0.510" - 0.519" (12.95 mm - 13.18 mm)		76000-510519			
	0.520" - 0.529" (13.21 mm - 13.44 mm)		76000-520529			
	0.530" - 0.539" (13.46 mm - 13.69 mm)		76000-530539			
	0.540" - 0.549" (13.72 mm - 13.94 mm)		76000-540549			
	0.550" - 0.559" (13.97 mm - 14.20 mm)		76000-550559			
	0.560" - 0.569" (14.22 mm - 14.45 mm)		76000-560569			
	0.570" - 0.579" (14.48 mm - 14.71 mm)		76000-570579			
OPGW	0.580" - 0.589" (14.73 mm - 14.96 mm)		76000-580589			
	0.590" - 0.599" (14.99 mm - 15.21 mm)		76000-590599			
	0.600" - 0.609" (15.24 mm - 15.47 mm)		76000-600609			
	0.610" - 0.619" (15.49 mm - 15.72 mm)	5,000 lbs. (2,268 kg)	76000-610619	11.0" (279.4 mm)	Round, Smooth	7.5 lbs. (3.4 kg)
	0.620" - 0.629" (15.75 mm - 15.98 mm)		76000-620629			
	0.630" - 0.639" (16.00 mm - 16.23 mm)		76000-630639			
	0.640" - 0.649" (16.26 mm - 16.48 mm)		76000-640649			
	0.650" - 0.659" (16.51 mm - 16.74 mm)		76000-650659			
	0.660" - 0.669" (16.76 mm - 16.99 mm)		76000-660669			
	0.670" - 0.679" (17.02 mm - 17.25 mm)		76000-670679			
	0.680" - 0.689" (17.27 mm - 17.50 mm)		76000-680689			
	0.690" - 0.699" (17.53 mm - 17.75 mm)		76000-690699			
	0.700" - 0.709" (17.78 mm - 18.01 mm)		76000-700709			
	0.710" - 0.719" (18.03 mm - 18.26 mm)		76000-710719			
	0.720" - 0.729" (18.29 mm - 18.52 mm)		76000-720729			
0.730" - 0.739" (18.54 mm - 18.77 mm)		76000-730739				
0.740" - 0.749" (18.80 mm - 19.02 mm)		76000-740749				
0.750" - 0.759" (19.05 mm - 19.28 mm)		76000-750759				
0.760" - 0.769" (19.30 mm - 19.53 mm)		76000-760769				
0.770" - 0.779" (19.56 mm - 19.79 mm)		76000-770779				
0.780" - 0.789" (19.81 mm - 20.04 mm)		76000-780789				
0.790" - 0.799" (20.07 mm - 20.29 mm)		76000-790799				
0.800" - 0.809" (20.32 mm - 20.55 mm)		76000-800809				
0.810" - 0.819" (20.57 mm - 20.80 mm)		76000-810819				
0.820" - 0.829" (20.83 mm - 21.06 mm)		76000-820829				
0.830" - 0.839" (21.08 mm - 21.31 mm)		76000-830839				
0.840" - 0.849" (21.34 mm - 21.56 mm)		76000-840849				
0.850" - 0.859" (21.59 mm - 21.82 mm)		76000-850859				

CUSTOM MILLED

Designed for applications requiring a jaw profile tailored to specific conductor types and sizes. Precision-milled jaws are manufactured to match defined dimensional requirements, supporting consistent contact during pulling and tensioning tasks. Built to meet specialized field needs, these grips provide a purpose-built solution for unique conductor applications.



Best for applications requiring a jaw profile matched to specific wire size.

LOCKING LOOP HANDLE

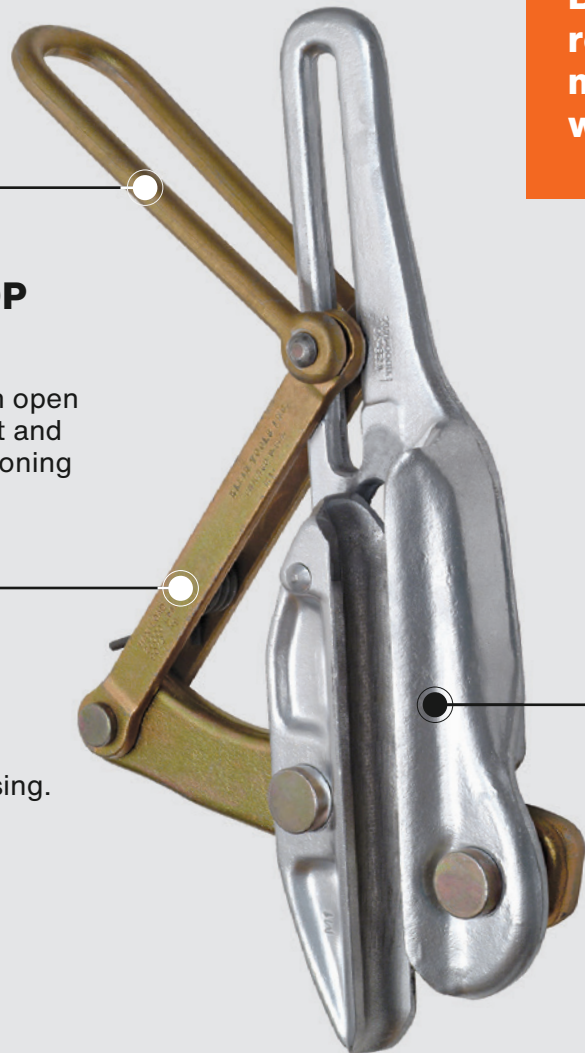
Allow jaws to remain open for easier placement and more efficient positioning on conductors.

SPRING

For smooth jaw opening and closing.

PRECISION-MILLED JAW

Manufactured to match specific wire dimensions for consistent engagement.



1628-40

Max. Safe Load	Min. to Max. Wire Diameter	Klein Cat. No.	Hot Latch	Spring	Locking Handle	Jaw Length	Approx. Weight
15,000 lbs. (6,803 kg)	0.310" - 0.328" (7.87 mm - 8.33 mm)	1628-16PE		✓	✓	7.3" (184.6 mm)	13.7 lbs. (6.2 kg)
	0.329" - 0.390" (8.36 mm - 9.91 mm)	1628-16PF		✓	✓		
	0.391" - 0.453" (9.93 mm - 11.51 mm)	1628-16PG		✓	✓		
	0.454" - 0.515" (11.53 mm - 13.08 mm)	1628-16PH		✓	✓		
	0.516" - 0.578" (13.11 mm - 14.68 mm)	1628-16PI		✓	✓		
	0.579" - 0.640" (14.71 mm - 16.26 mm)	1628-16PJ		✓	✓		
	0.641" - 0.703" (16.28 mm - 17.86 mm)	1628-16PK		✓	✓		
	0.704" - 0.765" (17.88 mm - 19.43 mm)	1628-16PL		✓	✓		
	0.766" - 0.828" (19.46 mm - 21.03 mm)	1628-16PM		✓	✓		
	0.829" - 0.890" (21.06 mm - 22.61 mm)	1628-16PN		✓	✓		
20,000 lbs. (9,070 kg)	0.516" - 0.578" (13.11 mm - 14.68 mm)	1628-30I		✓	✓	10.8" (273.1 mm)	27.0 lbs. (12.2 kg)
	0.579" - 0.640" (14.71 mm - 16.26 mm)	1628-30J		✓	✓		
	0.641" - 0.703" (16.28 mm - 17.86 mm)	1628-30K		✓	✓		
	0.704" - 0.765" (17.88 mm - 19.43 mm)	1628-30L		✓	✓		
	0.766" - 0.828" (19.46 mm - 21.03 mm)	1628-30M		✓	✓		
	0.829" - 0.890" (21.06 mm - 22.61 mm)	1628-30N		✓	✓		
	0.891" - 0.953" (22.63 mm - 24.21 mm)	1628-30O		✓	✓		
	0.954" - 1.015" (24.23 mm - 25.78 mm)	1628-30P		✓	✓		
	1.016" - 1.078" (25.81 mm - 27.38 mm)	1628-30R		✓	✓		
	1.079" - 1.140" (27.41 mm - 28.96 mm)	1628-30S		✓	✓		
25,000 lbs. (11,338 kg)	1.141" - 1.203" (28.98 mm - 30.56 mm)	1628-30T		✓	✓	10.8" (273.1 mm)	34.0 lbs. (15.4 kg)
	1.204" - 1.265" (30.58 mm - 32.13 mm)	1628-30U		✓	✓		
	0.704" - 0.765" (17.88 mm - 19.43 mm)	1628-40L		✓	✓		
	0.766" - 0.828" (19.46 mm - 21.03 mm)	1628-40M		✓	✓		
	0.829" - 0.890" (21.06 mm - 22.61 mm)	1628-40N		✓	✓		
	0.891" - 0.953" (22.63 mm - 24.21 mm)	1628-40O		✓	✓		
	0.954" - 1.015" (24.23 mm - 25.78 mm)	1628-40P		✓	✓		
	1.016" - 1.078" (25.81 mm - 27.38 mm)	1628-40R		✓	✓		
	1.079" - 1.140" (27.41 mm - 28.96 mm)	1628-40S		✓	✓		
	1.141" - 1.203" (28.98 mm - 30.56 mm)	1628-40T		✓	✓		
25,000 lbs. (11,338 kg)	1.204" - 1.265" (30.58 mm - 32.13 mm)	1628-40U		✓	✓	10.8" (273.1 mm)	34.0 lbs. (15.4 kg)
	1.266" - 1.328" (32.16 mm - 33.73 mm)	1628-40W		✓	✓		
	1.329" - 1.390" (33.76 mm - 35.31 mm)	1628-40X		✓	✓		
	1.391" - 1.453" (35.33 mm - 36.91 mm)	1628-40Y		✓	✓		
	1.454" - 1.515" (36.93 mm - 38.48 mm)	1628-40Z		✓	✓		
	1.516" - 1.578" (38.51 mm - 40.08 mm)	1628-40A		✓	✓		
	0.704" - 0.765" (17.88 mm - 19.43 mm)	1628-50L*		✓	✓		
	0.766" - 0.828" (19.46 mm - 21.03 mm)	1628-50M*		✓	✓		
	0.829" - 0.890" (21.06 mm - 22.61 mm)	1628-50N*		✓	✓		
	0.891" - 0.953" (22.63 mm - 24.21 mm)	1628-50O*		✓	✓		
0.954" - 1.015" (24.23 mm - 25.78 mm)	1628-50P*		✓	✓			
1.016" - 1.078" (25.81 mm - 27.38 mm)	1628-50R*		✓	✓			
1.079" - 1.140" (27.41 mm - 28.96 mm)	1628-50S*		✓	✓			
1.141" - 1.203" (28.98 mm - 30.56 mm)	1628-50T*		✓	✓			
1.204" - 1.265" (30.58 mm - 32.13 mm)	1628-50U*		✓	✓			
1.266" - 1.328" (32.16 mm - 33.73 mm)	1628-50W*		✓	✓			
1.329" - 1.390" (33.76 mm - 35.31 mm)	1628-50X*		✓	✓			
1.391" - 1.453" (35.33 mm - 36.91 mm)	1628-50Y*		✓	✓			
1.454" - 1.515" (36.93 mm - 38.48 mm)	1628-50Z*		✓	✓			
1.516" - 1.578" (38.51 mm - 40.08 mm)	1628-50A*		✓	✓			
1.579" - 1.640" (40.11 mm - 41.66 mm)	1628-50B*		✓	✓			
1.641" - 1.703" (41.68 mm - 43.26 mm)	1628-50C*		✓	✓			
1.704" - 1.765" (43.28 mm - 44.83 mm)	1628-50D*		✓	✓			
1.766" - 1.828" (44.86 mm - 46.43 mm)	1628-50E*		✓	✓			
1.829" - 1.890" (46.46 mm - 48.01 mm)	1628-50F*		✓	✓			

WIRE TYPE

GRIP TYPE

WIRE CHARTS

RESOURCES

ACSR

Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	MAXIMUM SAFE WORKLOAD												
				PARALLEL GRIPS (PAGE 23) FOR FULL DETAILS				CHICAGO® GRIPS (PAGE 17) FOR FULL DETAILS								
				"A" 2,000 lbs.	"C" 5,000 lbs.	"E" 10,000 lbs.	"F" 12,000 lbs.	"K" 1,500 lbs.	"B" 4,500 lbs.	"D" 8,000 lbs.	"G" 15,000 lbs.	"H" 20,000 lbs.	"I" 25,000 lbs.	"J" 25,000 lbs. Slip on Jaw		
Turkey	6 AWG	0.198" (5.03 mm)	6/1	16455	16477*, KT4500*			1613-30								
Swan	4 AWG	0.250" (6.35 mm)	6/1	16455	16477*, KT4500*				1656-20*							
Swanate		0.257" (6.53 mm)	7/1	16455	16477*, KT4500*				1656-20*							
Sparrow	2 AWG	0.316" (8.03 mm)	6/1	16455	16477*, KT4500*	KT4600*			1656-20*, 1656-30*		1628-16PE					
Sparate		0.325" (8.26 mm)	7/1	16455	16477*, KT4500*	KT4600*				1656-20*, 1656-30*		1628-16PE				
Robin	1 AWG	0.354" (8.99 mm)	6/1	16455	16477*, KT4500*	KT4600*			1656-20*, 1656-30*		1628-16PF					
Raven	1/0 AWG	0.398" (10.11 mm)	6/1	16455	16477*, KT4500*	KT4600*			1656-20*, 1656-30*		1628-16PG					
Quail	2/0 AWG	0.447" (11.35 mm)	6/1	16455	16477*, KT4500*	KT4600*			1656-30*		1628-16PG					
Pigeon	3/0 AWG	0.502" (12.75 mm)	6/1	16455	16477*, KT4500*	KT4600*			1656-30*, 1656-40*		1628-16PH					
Penguin	4/0 AWG	0.563" (14.30 mm)	6/1	16455	16477*, KT4500*	KT4600*				1656-40*	1628-16PI	1628-30I				
Grouse	80 MCM	0.367" (9.32 mm)	8/1	16455	16477*, KT4500*	KT4600*			1656-20*, 1656-30*		1628-16PF					
Petrel	101.8 MCM	0.461" (11.71 mm)	12/7	16455	16477*, KT4500*	KT4600*			1656-30*		1628-16PH					
Minorca	110.8 MCM	0.481" (12.22 mm)	12/7	16455	16477*, KT4500*	KT4600*			1656-30*		1628-16PH					
Leghorn	134.6 MCM	0.530" (13.46 mm)	12/7	16455	16477*, KT4500*	KT4600*			1656-30*, 1656-40*		1628-16PI	1628-30I				
Guinea	159 MCM	0.576" (14.63 mm)	12/7	16455	16477*, KT4500*	KT4600*				1656-40*	1628-16PI	1628-30I				
Dotterel	176.9 MCM	0.607" (15.42 mm)	12/7	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J				
Dorking	190.8 MCM	0.631" (16.03 mm)	12/7	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J				
Brahma	203.2 MCM	0.714" (18.14 mm)	16/19		16477*	KT4600*	16499*, KT4800*			1656-40*	1628-16PL	1628-30L	1628-40L	1628-50L**		
Cochin	211.3 MCM	0.664" (16.87 mm)	12/7		16477*	KT4600*				1656-40*	1628-16PK	1628-30K				
Waxwing	266.8 MCM	0.609" (15.47 mm)	18/1	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J				
Spoonbill		0.624" (15.85 mm)	22/7	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J				
Scaup		0.632" (16.05 mm)	24/7	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J				
Partridge		0.642" (16.31 mm)	26/7	16455	16477*	KT4600*				1656-40*	1628-16PK	1628-30K				
Junco		0.660" (16.76 mm)	30/7		16477*	KT4600*				1656-40*	1628-16PK	1628-30K				
Ostrich	300 MCM	0.680" (17.27 mm)	26/7		16477*	KT4600*	16499*			1656-40*	1628-16PK	1628-30K				
Merlin	336.4 MCM	0.684" (17.37 mm)	18/1		16477*	KT4600*	16499*			1656-40*	1628-16PK	1628-30K				
Woodcock		0.701" (17.81 mm)	22/7		16477*	KT4600*	16499*			1656-40*	1628-16PK	1628-30K				
Widgeon		0.710" (18.03 mm)	24/7		16477*	KT4600*	16499*			1656-40*	1628-16PL	1628-30L	1628-40L	1628-50L**		
Linnet		0.720" (18.29 mm)	26/7		16477*	KT4600*	16499*, KT4800*			1656-40*	1628-16PL	1628-30L	1628-40L	1628-50L**		
Oriole		0.741" (18.82 mm)	30/7		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PL	1628-30L	1628-40L	1628-50L**		
Chickadee	397.5 MCM	0.743" (18.87 mm)	18/1		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PL	1628-30L	1628-40L	1628-50L**		
Brant		0.772" (19.61 mm)	24/7		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**		
Ibis		0.783" (19.89 mm)	26/7		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**		
Lark		0.806" (20.47 mm)	30/7		16477*		16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**		
Pelican		0.814" (20.68 mm)	18/1		16477*		16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**		
Flicker	477 MCM	0.846" (21.49 mm)	24/7		16477*		16499*, KT4800*			1656-50*	1628-16PN	1628-30N	1628-40N	1628-50N**		
Hawk		0.858" (21.79 mm)	26/7		16477*		16499*, KT4800*			1656-50*	1628-16PN	1628-30N	1628-40N	1628-50N**		
Hen		0.883" (22.43 mm)	30/7		16477*		16499*, KT4800*			1656-60*	1628-16PN	1628-30N	1628-40N	1628-50N**		
Osprey	556.5 MCM	0.879" (22.33 mm)	18/1		16477*		16499*, KT4800*			1656-60*	1628-16PN	1628-30N	1628-40N	1628-50N**		
Parakeet		0.914" (23.22 mm)	24/7				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**		
Dove		0.927" (23.55 mm)	26/7				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**		
Eagle		0.953" (24.21 mm)	30/7				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**		
Peacock		0.953" (24.21 mm)	24/7				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**		
Squab	605 MCM	0.966" (24.54 mm)	26/7				16499*, KT4800*				1628-30P	1628-40P	1628-50P**			
Teal		0.994" (25.25 mm)	30/19				16499*, KT4800*				1628-30P	1628-40P	1628-50P**			
Wood Duck		0.994" (25.25 mm)	30/7				16499*, KT4800*				1628-30P	1628-40P	1628-50P**			

ALUMINUM CONDUCTOR
STEEL REINFORCED

WIRE TYPE

GRIP TYPE

WIRE CHARTS

RESOURCES

ACSR (CONTINUED)

Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	MAXIMUM SAFE WORKLOAD										
				PARALLEL GRIPS (PAGE 23) FOR FULL DETAILS				CHICAGO® GRIPS (PAGE 17) FOR FULL DETAILS						
				"A" 2,000 lbs.	"C" 5,000 lbs.	"E" 10,000 lbs.	"F" 12,000 lbs.	"K" 1,500 lbs.	"B" 4,500 lbs.	"D" 8,000 lbs.	"G" 15,000 lbs.	"H" 20,000 lbs.	"I" 25,000 lbs.	"J" 25,000 lbs. Slip on Jaw
Swift	636 MCM	0.930" (23.62 mm)	36/1				16499*, KT4800*			1656-60*		1628-300	1628-400	1628-500**
Kingbird		0.940" (23.88 mm)	18/1				16499*, KT4800*			1656-60*		1628-300	1628-400	1628-500**
Rook		0.977" (24.82 mm)	24/7				16499*, KT4800*					1628-30P	1628-40P	1628-50P**
Grosbeak		0.990" (25.15 mm)	26/7				16499*, KT4800*					1628-30P	1628-40P	1628-50P**
Egret		1.019" (25.88 mm)	30/19				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Scoter		1.019" (25.88 mm)	30/7				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Flamingo	666.6 MCM	1.000" (25.40 mm)	24/7				16499*, KT4800*					1628-30P	1628-40P	1628-50P**
Gannet		1.014" (25.76 mm)	26/7				16499*, KT4800*					1628-30P	1628-40P	1628-50P**
Stilt	715.5 MCM	1.036" (26.31 mm)	24/7				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Starling		1.051" (26.70 mm)	26/7				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Redwing		1.081" (27.46 mm)	30/19				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Coot	795 MCM	1.040" (26.42 mm)	36/1				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Tern		1.063" (27.00 mm)	45/7				16499*, KT4800*					1628-30R	1628-40R	1628-50R**
Condor		1.092" (27.74 mm)	54/7				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Cuckoo		1.092" (27.74 mm)	24/7				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Drake		1.108" (28.14 mm)	26/7				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Mallard		1.140" (28.96 mm)	30/19				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Ruddy	900 MCM	1.131" (28.73 mm)	45/7				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Canary		1.162" (29.51 mm)	54/7				16499*, KT4800*					1628-30T	1628-40T	1628-50T**
Catbird	954 MCM	1.140" (28.96 mm)	36/1				16499*, KT4800*					1628-30S	1628-40S	1628-50S**
Rail		1.165" (29.59 mm)	45/7				16499*, KT4800*					1628-30T	1628-40T	1628-50T**
Cardinal		1.196" (30.38 mm)	54/7				16499*, KT4800*					1628-30T	1628-40T	1628-50T**
Tanager	1033.5 MCM	1.186" (30.12 mm)	36/1				16499*, KT4800*					1628-30T	1628-40T	1628-50T**
Ortolan		1.212" (30.78 mm)	45/7				16499*, KT4800*					1628-30U	1628-40U	1628-50U**
Curllew		1.245" (31.62 mm)	54/7				16499*, KT4800*					1628-30U	1628-40U	1628-50U**
Bluejay	1113 MCM	1.259" (31.98 mm)	45/7				16499*					1628-30U	1628-40U	1628-50U**
Finch		1.293" (32.84 mm)	54/19				16499*					1628-40W	1628-50W**	
Bunting	1192.5 MCM	1.302" (33.07 mm)	45/7				16499*					1628-40W	1628-50W**	
Grackle		1.338" (33.99 mm)	54/19				16499*					1628-40X	1628-50X**	
Skylark		1.316" (33.43 mm)	36/1				16499*					1628-40W	1628-50W**	
Bittern	1272 MCM	1.345" (34.16 mm)	45/7				16499*					1628-40X	1628-50X**	
Pheasant		1.382" (35.10 mm)	54/19				16499*					1628-40X	1628-50X**	
Dipper	1351.5 MCM	1.386" (35.20 mm)	45/7									1628-40X	1628-50X**	
Martin		1.424" (36.17 mm)	54/19									1628-40Y	1628-50Y**	
Bobolink	1431 MCM	1.427" (36.25 mm)	45/7									1628-40Y	1628-50Y**	
Plover		1.465" (37.21 mm)	54/19									1628-40Z	1628-50Z**	
Nuthatch	1510.5 MCM	1.466" (37.24 mm)	45/7									1628-40Z	1628-50Z**	
Parrot		1.505" (38.23 mm)	54/19									1628-40Z	1628-50Z**	
Lapwing	1590 MCM	1.504" (38.20 mm)	45/7									1628-40Z	1628-50Z**	
Falcon		1.545" (39.24 mm)	54/19									1628-40A	1628-50A**	
Chukar	1780 MCM	1.602" (40.69 mm)	84/19										1628-50B**	
Mockingbird	2034.5 MCM	1.681" (42.70 mm)	72/7										1628-50C**	
Bluebird	2156 MCM	1.762" (44.75 mm)	84/19										1628-50D**	
Kiwi	2167 MCM	1.735" (44.07 mm)	72/7										1628-50D**	
Thrasher	2312 MCM	1.802" (45.77 mm)	76/19										1628-50E**	
Joree	2515 MCM	1.880" (47.75 mm)	76/19										1628-50F**	

ALUMINUM CONDUCTOR
STEEL REINFORCED

WIRE TYPE

GRIP TYPE

WIRE CHARTS

RESOURCES

AAC

Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	MAXIMUM SAFE WORKLOAD																
				PARALLEL GRIPS (PAGE 23) FOR FULL DETAILS				CHICAGO® GRIPS (PAGE 17) FOR FULL DETAILS												
				"A" 2,000 lbs.	"C" 5,000 lbs.	"E" 10,000 lbs.	"F" 12,000 lbs.	"B" 4,500 lbs.	"D" 8,000 lbs.	"G" 15,000 lbs.	"H" 20,000 lbs.	"I" 25,000 lbs.	"J" 25,000 lbs. Slip on Jaw							
Peachbell	6 AWG	0.184" (4.67 mm)	7	16455	16477*, KT4500*															
Rose	4 AWG	0.232" (5.89 mm)	7	16455	16477*, KT4500*					1656-20*										
Iris	2 AWG	0.292" (7.42 mm)	7	16455	16477*, KT4500*					1656-20*										
Pansy	1 AWG	0.328" (8.33 mm)	7	16455	16477*, KT4500*	KT4600*				1656-20*, 1656-30*										
Poppy	1/0 AWG	0.368" (9.35 mm)	7	16455	16477*, KT4500*	KT4600*				1656-20*, 1656-30*										
Aster	2/0 AWG	0.414" (10.52 mm)	7	16455	16477*, KT4500*	KT4600*				1656-30*										
Phlox	3/0 AWG	0.464" (11.79 mm)	7	16455	16477*, KT4500*	KT4600*				1656-30*										
Oxlip	4/0 AWG	0.522" (13.26 mm)	7	16455	16477*, KT4500*	KT4600*				1656-30*										
Sneezewort	250 MCM	0.567" (14.40 mm)	7	16455	16477*, KT4500*	KT4600*					1656-40*	1628-16PI	1628-30I							
Valerian		0.574" (14.58 mm)	19	16455	16477*, KT4500*	KT4600*					1656-40*	1628-16PI	1628-30I							
Daisy	266.8 MCM	0.586" (14.88 mm)	7	16455	16477*, KT4500*	KT4600*					1656-40*	1628-16PJ	1628-30J							
Laurel		0.593" (15.06 mm)	19	16455	16477*, KT4500*	KT4600*					1656-40*	1628-16PJ	1628-30J							
Peony	300 MCM	0.629" (15.98 mm)	19	16455	16477*	KT4600*				1656-40*	1628-16PJ	1628-30J								
Tulip	336.4 MCM	0.666" (16.92 mm)	19		16477*	KT4600*				1656-40*	1628-16PK	1628-30K								
Daffodil	350 MCM	0.679" (17.25 mm)	19		16477*	KT4600*				1656-40*	1628-16PK	1628-30K								
Canna	397.5 MCM	0.724" (18.39 mm)	19		16477*	KT4600*	16499*, KT4800*			1656-40*	1628-16PL	1628-30L	1628-40L	1628-50L**						
Goldentuft	450 MCM	0.769" (19.53 mm)	19		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**						
Cosmos	477 MCM	0.793" (20.14 mm)	19		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**						
Syringa		0.795" (20.19 mm)	37		16477*	KT4600*	16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**						
Zinnia	500 MCM	0.811" (20.60 mm)	19		16477*		16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**						
Hyacinth		0.813" (20.65 mm)	37		16477*		16499*, KT4800*			1656-50*	1628-16PM	1628-30M	1628-40M	1628-50M**						
Dahlia	556.5 MCM	0.856" (21.74 mm)	19		16477*		16499*, KT4800*			1656-50*	1628-16PN	1628-30N	1628-40N	1628-50N**						
Mistletoe		0.858" (21.79 mm)	37		16477*		16499*, KT4800*			1656-50*	1628-16PN	1628-30N	1628-40N	1628-50N**						
Meadowsweet	600 MCM	0.891" (22.63 mm)	37				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**						
Orchid	636 MCM	0.918" (23.32 mm)	37				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**						
Heuchera	650 MCM	0.928" (23.57 mm)	37				16499*, KT4800*			1656-60*		1628-30O	1628-40O	1628-50O**						
Verbena	700 MCM	0.963" (24.46 mm)	37				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Flag		0.964" (24.49 mm)	61				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Violet	715.5 MCM	0.974" (24.74 mm)	37				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Nasturtium		0.975" (24.77 mm)	61				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Petunia	750 MCM	0.997" (25.32 mm)	37				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Cattail		0.998" (25.35 mm)	61				16499*, KT4800*					1628-30P	1628-40P	1628-50P**						
Arbutus	795 MCM	1.026" (26.06 mm)	37				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Lilac		1.028" (26.11 mm)	61				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Fuchsia	800 MCM	1.029" (26.14 mm)	37				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Heliotrope		1.031" (26.19 mm)	61				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Anemone	874.5 MCM	1.076" (27.37 mm)	37				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Crocus		1.077" (27.39 mm)	61				16499*, KT4800*					1628-30R	1628-40R	1628-50R**						
Cockscomb	900 MCM	1.092" (27.74 mm)	37				16499*, KT4800*					1628-30S	1628-40S	1628-50S**						
Snapdragon		1.094" (27.79 mm)	61				16499*, KT4800*					1628-30S	1628-40S	1628-50S**						
Magnolia	954 MCM	1.124" (28.55 mm)	37				16499*, KT4800*					1628-30S	1628-40S	1628-50S**						
Goldenrod		1.126" (28.60 mm)	61				16499*, KT4800*					1628-30S	1628-40S	1628-50S**						
Hawkweed	1000 MCM	1.151" (29.24 mm)	37				16499*, KT4800*					1628-30T	1628-40T	1628-50T**						
Camellia		1.152" (29.26 mm)	61				16499*, KT4800*					1628-30T	1628-40T	1628-50T**						
Bluebell	1033.5 MCM	1.170" (29.72 mm)	37				16499*, KT4800*					1628-30T	1628-40T	1628-50T**						
Larkspur		1.172" (29.77 mm)	61				16499*, KT4800*					1628-30T	1628-40T	1628-50T**						
Marigold	1113 MCM	1.216" (30.89 mm)	61				16499*, KT4800*					1628-30U	1628-40U	1628-50U**						
Hawthorn	1192.5 MCM	1.258" (31.95 mm)	61				16499*					1628-30U	1628-40U	1628-50U**						
Narcissus	1272 MCM	1.300" (33.02 mm)	61				16499*					1628-40W	1628-50W**							
Columbine	1351.5 MCM	1.340" (34.04 mm)	61				16499*					1628-40X	1628-50X**							
Carnation	1431 MCM	1.379" (35.03 mm)	61				16499*					1628-40X	1628-50X**							
Gladiolus	1510.5 MCM	1.417" (35.99 mm)	61				16499*					1628-40Y	1628-50Y**							
Coreopsis	1590 MCM	1.454" (36.93 mm)	61									1628-40Z	1628-50Z**							
Jessamine	1750 MCM	1.525" (38.74 mm)	61									1628-40A	1628-50A**							
Cowslip	2000 MCM	1.630" (41.40 mm)	91											1628-50B**						
Sagebrush	2250 MCM	1.729" (43.92 mm)	91																	1628-50D**
Lupine	2500 MCM	1.823" (46.30 mm)	91																	1628-50E**

ALL ALUMINUM CONDUCTOR

See Wire Pulling Grip Warnings on the inside back cover.

See Wire Pulling Grip Warnings on the inside back cover.

*Cat. No. varies dependent on selected features.

**1628-50-series requires jaw removal to insert conductor.

ALUMINUM CONDUCTOR
STEEL SUPPORTED

ACSS			MAXIMUM SAFE WORK LOAD SEE PAGE 17 FOR FULL DETAILS			
Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	"A" 8,000 lbs.	"B" 25,000 lbs.	"C" 25,000 lbs. Slip on Jaw
Spoonbill/ACSS	266.8 MCM	0.624" (15.85 mm)	22/7	1656-40*		
Scaup/ACSS		0.632" (16.05 mm)	24/7	1656-40*		
Partridge/ACSS		0.642" (16.31 mm)	26/7	1656-40*		
Junco/ACSS		0.660" (16.76 mm)	30/7	1656-40*		
Ostrich/ACSS	300 MCM	0.680" (17.27 mm)	26/7	1656-40*		
Trogon/ACSS	336.4 MCM	0.692" (17.58 mm)	20/7	1656-40*		
Woodcock/ACSS		0.701" (17.81 mm)	22/7	1656-40*		
Widgeon/ACSS		0.710" (18.03 mm)	24/7	1656-40*	1628-40L	1628-50L**
Linnet/ACSS		0.720" (18.29 mm)	26/7	1656-40*	1628-40L	1628-50L**
Oriole/ACSS	397.5 MCM	0.741" (18.82 mm)	30/7	1656-50*	1628-40L	1628-50L**
Ptarmigan/ACSS		0.752" (19.10 mm)	20/7	1656-50*	1628-40L	1628-50L**
Stork/ACSS		0.762" (19.35 mm)	22/7	1656-50*	1628-40L	1628-50L**
Brant/ACSS		0.772" (19.61 mm)	24/7	1656-50*	1628-40M	1628-50M**
Ibis/ACSS	477 MCM	0.783" (19.89 mm)	26/7	1656-50*	1628-40M	1628-50M**
Lark/ACSS		0.806" (20.47 mm)	30/7	1656-50*	1628-40M	1628-50M**
Tailorbird/ACSS		0.823" (20.90 mm)	20/7	1656-50*	1628-40M	1628-50M**
Toucan/ACSS		0.834" (21.18 mm)	22/7	1656-50*	1628-40N	1628-50N**
Flicker/ACSS	500 MCM	0.846" (21.49 mm)	24/7	1656-50*	1628-40N	1628-50N**
Hawk/ACSS		0.858" (21.79 mm)	26/7	1656-50*	1628-40N	1628-50N**
Hen/ACSS		0.883" (22.43 mm)	30/7	1656-60*	1628-40N	1628-50N**
Heron/ACSS		0.904" (22.96 mm)	30/7	1656-60*	1628-400	1628-500**
Tody/ACSS	556.5 MCM	0.890" (22.61 mm)	20/7	1656-60*	1628-40N	1628-50N**
Sapsucker/ACSS		0.901" (22.89 mm)	22/7	1656-60*	1628-400	1628-500**
Parakeet/ACSS		0.914" (23.22 mm)	24/7	1656-60*	1628-400	1628-500**
Dove/ACSS		0.927" (23.55 mm)	26/7	1656-60*	1628-400	1628-500**
Eagle/ACSS	605 MCM	0.953" (24.21 mm)	30/7	1656-60*	1628-400	1628-500**
Peacock/ACSS		0.953" (24.21 mm)	24/7	1656-60*	1628-400	1628-500**
Squab/ACSS		0.966" (24.54 mm)	26/7		1628-40P	1628-50P**
Wood Duck/ACSS		0.994" (25.25 mm)	30/7		1628-40P	1628-50P**
Teal/ACSS	636 MCM	0.994" (25.25 mm)	30/19		1628-40P	1628-50P**
Turacos/ACSS		0.951" (24.16 mm)	20/7	1656-60*	1628-400	1628-500**
Goldfinch/ACSS		0.963" (24.46 mm)	22/7		1628-40P	1628-50P**
Rook/ACSS		0.977" (24.82 mm)	24/7		1628-40P	1628-50P**
Grosbeak/ACSS	666.6 MCM	0.990" (25.15 mm)	26/7		1628-40P	1628-50P**
Scoter/ACSS		1.019" (25.88 mm)	30/7		1628-40R	1628-50R**
Egret/ACSS		1.019" (25.88 mm)	30/19		1628-40R	1628-50R**
Flamingo/ACSS		1.000" (25.40 mm)	24/7		1628-40P	1628-50P**
Gannet/ACSS	715.5 MCM	1.014" (25.76 mm)	26/7		1628-40P	1628-50P**
Stilt/ACSS		1.036" (26.31 mm)	24/7		1628-40R	1628-50R**
Starling/ACSS		1.051" (26.70 mm)	26/7		1628-40R	1628-50R**
Redwing/ACSS		1.081" (27.46 mm)	30/19		1628-40S	1628-50S**
Macaw/ACSS	795 MCM	1.055" (26.80 mm)	42/7		1628-40R	1628-50R**
Turbit/ACSS		1.063" (27.00 mm)	20/7		1628-40R	1628-50R**
Tern/ACSS		1.063" (27.00 mm)	45/7		1628-40R	1628-50R**
Puffin/ACSS		1.077" (27.36 mm)	22/7		1628-40R	1628-50R**
Cuckoo/ACSS	1780 MCM	1.092" (27.74 mm)	24/7		1628-40S	1628-50S**
Condor/ACSS		1.092" (27.74 mm)	54/7		1628-40S	1628-50S**
Drake/ACSS		1.108" (28.14 mm)	26/7		1628-40S	1628-50S**
Mallard/ACSS		1.140" (28.96 mm)	30/19		1628-40S	1628-50S**

*Cat. No. varies dependent on selected features.
*Must use two of the recommended grips in tandem.

See Wire Pulling Grip Warnings on the inside back cover.

ACSS (CONTINUED)			MAXIMUM SAFE WORK LOAD SEE PAGE 17 FOR FULL DETAILS				
Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	"A" 8,000 lbs.	"B" 25,000 lbs.	"C" 25,000 lbs. Slip on Jaw	
Ruddy/ACSS	900 MCM	1.131" (28.73 mm)	45/7		1628-40S	1628-50S**	
Canary/ACSS		1.162" (29.51 mm)	54/7		1628-40T	1628-50T**	
Phoenix/ACSS		1.155" (29.34 mm)	42/7		1628-40T	1628-50T**	
Corncrake/ACSS		1.165" (29.59 mm)	20/7		1628-40T	1628-50T**	
Rail/ACSS	954 MCM	1.165" (29.59 mm)	45/7		1628-40T	1628-50T**	
Towhee/ACSS		1.175" (29.85 mm)	48/7		1628-40T	1628-50T**	
Redbird/ACSS		1.196" (30.38 mm)	24/7		1628-40T	1628-50T**	
Cardinal/ACSS		1.196" (30.38 mm)	54/7		1628-40T	1628-50T**	
Canvasback/ACSS	1033.5 MCM	1.248" (31.70 mm)	30/19		1628-40U	1628-50U**	
Snowbird/ACSS		1.203" (30.56 mm)	42/7		1628-40T	1628-50T**	
Ortolan/ACSS		1.212" (30.78 mm)	45/7		1628-40U	1628-50U**	
Whooper/ACSS		1.223" (31.06 mm)	48/7		1628-40U	1628-50U**	
Curlew/ACSS	1113 MCM	1.245" (31.62 mm)	54/7		1628-40U	1628-50U**	
Avocet/ACSS		1.248" (31.70 mm)	42/7		1628-40U	1628-50U**	
Bluejay/ACSS		1.259" (31.98 mm)	45/7		1628-40U	1628-50U**	
Bullfinch/ACSS		1.269" (32.23 mm)	48/7		1628-40W	1628-50W**	
Finch/ACSS	1192.5 MCM	1.293" (32.84 mm)	54/19		1628-40W	1628-50W**	
Oxbird/ACSS		1.292" (32.82 mm)	42/7		1628-40W	1628-50W**	
Bunting/ACSS		1.302" (33.07 mm)	45/7		1628-40W	1628-50W**	
Cormorant/ACSS		1.313" (33.35 mm)	48/7		1628-40W	1628-50W**	
Grackle/ACSS	1272 MCM	1.338" (33.99 mm)	54/19		1628-40X	1628-50X**	
Scissortail/ACSS		1.334" (33.88 mm)	42/7		1628-40X	1628-50X**	
Bittern/ACSS		1.345" (34.16 mm)	45/7		1628-40X	1628-50X**	
Diver/ACSS		1.357" (34.47 mm)	48/7		1628-40X	1628-50X**	
Pheasant/ACSS	1351.5 MCM	1.382" (35.10 mm)	54/19		1628-40X	1628-50X**	
Ringdove/ACSS		1.376" (34.95 mm)	42/7		1628-40X	1628-50X**	
Dipper/ACSS		1.386" (35.20 mm)	45/7		1628-40X	1628-50X**	
Martin/ACSS		1.424" (36.17 mm)	54/19		1628-40Y	1628-50Y**	
Popinjay/ACSS	1431 MCM	1.415" (35.94 mm)	42/7		1628-40Y	1628-50Y**	
Bobolink/ACSS		1.427" (36.25 mm)	45/7		1628-40Y	1628-50Y**	
Wagtail/ACSS		1.439" (36.55 mm)	48/7		1628-40Y	1628-50Y**	
Plover/ACSS		1.465" (37.21 mm)	54/19		1628-40Z	1628-50Z**	
Nuthatch/ACSS	1510.5 MCM	1.466" (37.24 mm)	45/7		1628-40Z	1628-50Z**	
Parrot/ACSS		1.505" (38.23 mm)	54/19		1628-40Z	1628-50Z**	
Ratite/ACSS		1.492" (37.90 mm)	42/7		1628-40Z	1628-50Z**	
Lapwing/ACSS		1.504" (38.20 mm)	45/7		1628-40Z	1628-50Z**	
Hornbill/ACSS	1590 MCM	1.517" (38.53 mm)	48/7		1628-40A	1628-50A**	
Falcon/ACSS		1.545" (39.24 mm)	54/19		1628-40A	1628-50A**	
Chukar/ACSS		1780 MCM	1.602" (40.69 mm)	84/19			1628-50B**
Seahawk/ACSS		1869 MCM	1.603" (40.72 mm)	68/7			1628-50B**
Mockingbird/ACSS	2034.5 MCM	1.681" (42.70 mm)	72/7			1628-50C**	
Roadrunner/ACSS	2057.5 MCM	1.700" (43.18 mm)	76/19			1628-50C**	
Bluebird/ACSS	2156 MCM	1.762" (44.75 mm)	84/19			1628-50D**	
Kiwi/ACSS	2167 MCM	1.735" (44.07 mm)	72/7			1628-50D**	
Thrasher/ACSS	2312 MCM	1.802" (45.77 mm)	76/19			1628-50E**	
Joree/ACSS	2515 MCM	1.880" (47.75 mm)	76/19			1628-50F**	

See Wire Pulling Grip Warnings on the inside back cover.

**1628-50-series requires jaw removal to insert conductor.

ALUMINUM CONDUCTOR STEEL SUPPOTAL WIRE TRAPAZOIDAL WIRE

ACSS/TW				MAXIMUM SAFE WORK LOAD SEE PAGE 17 FOR FULL DETAILS		
Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	"A" 8,000 lbs.	"B" 25,000 lbs.	"C" 25,000 lbs. Slip on Jaw
Partridge/ACSS/TW	266.8 MCM	0.595" (15.11 mm)	14/7	1656-40*		
Oriole/ACSS/TW	336.4 MCM	0.692" (17.58 mm)	18/7	1656-40*		
Linnet/ACSS/TW	366.4 MCM	0.667" (16.94 mm)	16/7	1656-40*		
Flicker/ACSS/TW		0.777" (19.74 mm)	18/7	1656-50*	1628-40M	1628-50M**
Hawk/ACSS/TW	477 MCM	0.790" (20.07 mm)	18/7	1656-50*	1628-40M	1628-50M**
Hen/ACSS/TW		0.821" (20.85 mm)	22/7	1656-50*	1628-40M	1628-50M**
Parakeet/ACSS/TW		0.835" (21.21 mm)	18/7	1656-50*	1628-40N	1628-50N**
Dove/ACSS/TW	556.5 MCM	0.852" (21.64 mm)	20/7	1656-50*	1628-40N	1628-50N**
Calumet/ACSS/TW	565.3 MCM	0.858" (21.79 mm)	20/7	1656-50*	1628-40N	1628-50N**
Mohawk/ACSS/TW	571.7 MCM	0.846" (21.49 mm)	18/7	1656-50*	1628-40N	1628-50N**
Rook/ACSS/TW		0.890" (22.61 mm)	18/7	1656-60*	1628-40N	1628-50N**
Grosbeak/ACSS/TW	636 MCM	0.908" (23.06 mm)	20/7	1656-60*	1628-400	1628-500**
Scoter/ACSS/TW		0.942" (23.93 mm)	22/7	1656-60*	1628-400	1628-500**
Oswego/ACSS/TW	664.8 MCM	0.927" (23.55 mm)	20/7	1656-60*	1628-400	1628-500**
Mystic/ACSS/TW	666.6 MCM	0.911" (23.14 mm)	18/7	1656-60*	1628-400	1628-500**
Wabash/ACSS/TW	762.8 MCM	0.990" (25.15 mm)	20/7		1628-40P	1628-50P**
Maumee/ACSS/TW	768.2 MCM	0.977" (24.82 mm)	20/7		1628-40P	1628-50P**
Tern/ACSS/TW		0.958" (24.33 mm)	17/7	1656-60*	1628-40P	1628-50P**
Puffin/ACSS/TW		0.980" (24.89 mm)	18/7		1628-40P	1628-50P**
Condor/ACSS/TW	795 MCM	0.991" (25.17 mm)	18/7		1628-40P	1628-50P**
Drake/ACSS/TW		1.010" (25.65 mm)	20/7		1628-40P	1628-50P**
Mallard/ACSS/TW		1.047" (26.59 mm)	22/19		1628-40R	1628-50R**
Phoenix/ACSS/TW		1.050" (26.67 mm)	30/7		1628-40R	1628-50R**
Rail/ACSS/TW	954 MCM	1.063" (27.00 mm)	33/7		1628-40R	1628-50R**
Cardinal/ACSS/TW		1.081" (27.46 mm)	20/7		1628-40S	1628-50S**
Kettle/ACSS/TW	957.2 MCM	1.065" (27.05 mm)	33/7		1628-40R	1628-50R**
Suwannee/ACSS/TW	959.6 MCM	1.108" (28.14 mm)	22/7		1628-40S	1628-50S**
Columbia/ACSS/TW	966.2 MCM	1.089" (27.66 mm)	18/7		1628-40S	1628-50S**
Snowbird/ACSS/TW		1.091" (27.71 mm)	30/7		1628-40S	1628-50S**
Ortolan/ACSS/TW	1033.5 MCM	1.104" (28.04 mm)	33/7		1628-40S	1628-50S**
Curlew/ACSS/TW		1.127" (28.63 mm)	20/7		1628-40S	1628-50S**
Avocet/ACSS/TW		1.130" (28.70 mm)	30/7		1628-40S	1628-50S**
Bluejay/ACSS/TW	1113 MCM	1.144" (29.06 mm)	33/7		1628-40T	1628-50T**
Finch/ACSS/TW		1.169" (29.69 mm)	20/19		1628-40T	1628-50T**
Genesee/ACSS/TW	1158 MCM	1.166" (29.62 mm)	33/7		1628-40T	1628-50T**
Hudson/ACSS/TW	1158.4 MCM	1.209" (30.71 mm)	39/7		1628-40U	1628-50U**

*Cat. No. varies dependent on selected features.
*Must use two of the recommended grips in tandem.

See Wire Pulling Grip Warnings on the inside back cover.

ACSS/TW (CONTINUED)				MAXIMUM SAFE WORK LOAD SEE PAGE 17 FOR FULL DETAILS		
Code Word	AWG or MCM Conductor Size	Diameter	No. of Alum Strands / No. Steel Strands	"A" 8,000 lbs.	"B" 25,000 lbs.	"C" 25,000 lbs. Slip on Jaw
Cheyenne/ACSS/TW	1168.1 MCM	1.156" (29.36 mm)	30/7		1628-40T	1628-50T**
Oxbird/ACSS/TW		1.168" (29.67 mm)	30/7		1628-40T	1628-50T**
Bunting/ACSS/TW	1192.5 MCM	1.182" (30.02 mm)	33/7		1628-40T	1628-50T**
Grackle/ACSS/TW		1.224" (31.09 mm)	38/19		1628-40U	1628-50U**
Yukon/ACSS/TW	1233.6 MCM	1.245" (31.62 mm)	38/19		1628-40U	1628-50U**
Nelson/ACSS/TW	1257.1 MCM	1.212" (30.78 mm)	33/7		1628-40U	1628-50U**
Scissortail/ACSS/TW		1.204" (30.58 mm)	30/7		1628-40U	1628-50U**
Catawba/ACSS/TW		1.204" (30.58 mm)	30/7		1628-40U	1628-50U**
Bittern/ACSS/TW	1272 MCM	1.219" (30.96 mm)	33/7		1628-40U	1628-50U**
Pheasant/ACSS/TW		1.264" (32.11 mm)	39/19		1628-40U	1628-50U**
Thames/ACSS/TW	1334.6 MCM	1.293" (32.84 mm)	39/19		1628-40W	1628-50W**
Dipper/ACSS/TW		1.255" (31.88 mm)	33/7		1628-40U	1628-50U**
Martin/ACSS/TW	1351.5 MCM	1.301" (33.05 mm)	39/19		1628-40W	1628-50W**
Mackenzie/ACSS/TW	1359.7 MCM	1.258" (31.95 mm)	33/7		1628-40U	1628-50U**
Truckee/ACSS/TW	1372.5 MCM	1.249" (31.72 mm)	30/7		1628-40U	1628-50U**
Bobolink/ACSS/TW		1.290" (32.77 mm)	33/7		1628-40W	1628-50W**
Plover/ACSS/TW	1431 MCM	1.337" (33.96 mm)	39/19		1628-40X	1628-50X**
Merrimack/ACSS/TW	1433.6 MCM	1.338" (33.99 mm)	39/19		1628-40X	1628-50X**
Miramichi/ACSS/TW	1455.3 MCM	1.300" (33.02 mm)	33/7		1628-40W	1628-50W**
St. Croix/ACSS/TW	1467.8 MCM	1.291" (32.79 mm)	30/7		1628-40W	1628-50W**
Rio Grande/ACSS/TW	1533.3 MCM	1.382" (35.10 mm)	39/19		1628-40X	1628-50X**
Potomac/ACSS/TW	1557.4 MCM	1.345" (34.16 mm)	36/7		1628-40X	1628-50X**
Platte/ACSS/TW	1569 MCM	1.333" (33.86 mm)	30/7		1628-40X	1628-50X**
Lapwing/ACSS/TW		1.357" (34.47 mm)	33/7		1628-40X	1628-50X**
Falcon/ACSS/TW	1590 MCM	1.408" (35.76 mm)	42/19		1628-40Y	1628-50Y**
Pecos/ACSS/TW	1622 MCM	1.424" (36.17 mm)	39/19		1628-40Y	1628-50Y**
Schuykill/ACSS/TW	1657.4 MCM	1.384" (35.15 mm)	33/7		1628-40X	1628-50X**
James/ACSS/TW	1730.6 MCM	1.465" (37.21 mm)	39/19		1628-40Z	1628-50Z**
Pee Dee/ACSS/TW	1758.6 MCM	1.425" (36.20 mm)	33/7		1628-40Y	1628-50Y**
Chukar/ACSS/TW	1780 MCM	1.447" (36.75 mm)	36/19		1628-40Y	1628-50Y**
Cumberland/ACSS/TW	1926.9 MCM	1.545" (39.24 mm)	42/19		1628-40A	1628-50A**
Athabaska/ACSS/TW	1949.6 MCM	1.500" (38.10 mm)	36/7		1628-40Z	1628-50Z**
Powder/ACSS/TW	2153.8 MCM	1.604" (40.74 mm)	60/19			1628-50B**
Bluebird/ACSS/TW	2156 MCM	1.604" (40.74 mm)	60/19			1628-50B**
Santee/ACSS/TW	2627.3 MCM	1.764" (44.81 mm)	60/19			1628-50D**

See Wire Pulling Grip Warnings on the inside back cover.

**1628-50-series requires jaw removal to insert conductor.

RESOURCES



Tools for the Work Behind the Work.

Proper selection and application matter. This section provides related products, information on caring for your grips, common overhead applications, and ongoing use of Klein Tools' grips in the field.

WIRE TYPE

GRIP TYPE

WIRE CHARTS

RESOURCES

RELATED PRODUCTS

WEB STRAP RATCHET HOISTS

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

SINGLE LINE

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

DOUBLE LINE

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



Klein Cat. No.	Pull Type	Weight (lbs.)
KN1500P-EX		12.5 lbs (5.7 kg)
KN1500P-EXH	Single/ Double	13.6 lbs (6.2 kg)
KN1600PEX		13.0 lbs. (5.9 kg)

HOWE WIRE TOOL

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



Klein Cat. No.	Description	Weight (lbs.)
1702-20N	Nylon Strap 1" (25 mm) wide, 7' (2.1 m) long	2.0 lbs. (0.9 kg)
170220HH	Howe Wire Tool with Handle	2.8 lb (1.3 kg)

GRIP-CLEANING BRUSH SET

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

Klein Cat. No.	Set Contains	Weight (lbs.)	
25450		1.0 lbs. (0.5 kg)	
	Description	Bristle Diameter and Length	Overall Length
	Round-bristle	3/8" x 3"	12"
	Square-bristle	(10 mm x 76 mm)	(305 mm)
	Round-bristle	1-9/16" x 5"	14"
	Square-bristle	(40 mm x 127 mm)	(356 mm)

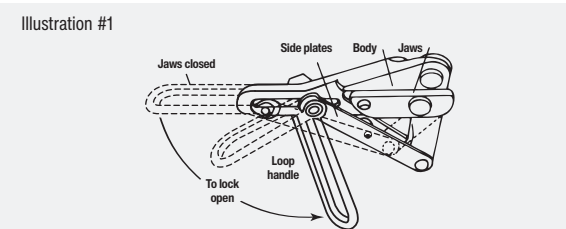
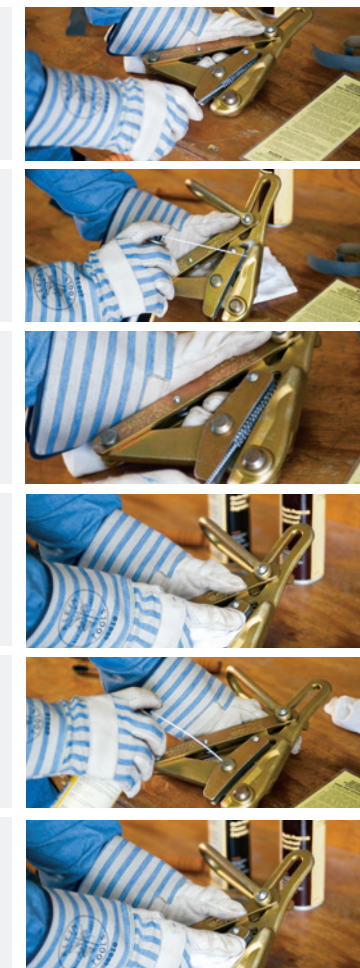
PRODUCT CARE

GRIP CLEANING, LUBRICATING & INSPECTING

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

NEVER REPAIR ANY GRIP.
Grips that are bent, misaligned or otherwise distorted should be discarded and replaced.

- Step 1** Use the Klein Grip Cleaning Wire Brush Set (Klein Cat. No. 25450) or emery cloth to clean the surfaces of grip jaws.
- Step 2** Spray degreaser on the grip jaws, all joints and moving parts.
- Step 3** Use the Klein Grip Cleaning Wire Brush to remove dirt and debris from the grip jaws.
- Step 4** Wipe grips dry with soft cloth. Repeat all cleaning steps as necessary until grip is completely clean.
- Step 5** Apply lubricant to all joints and moving parts. Do NOT lubricate gripping surfaces of jaws.
- 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 #1).

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

COMMON OVERHEAD APPLICATIONS

OVERHEAD APPLICATIONS

- Step 1** Set up the ratchet hoist and Chicago® Grip as shown here.
- Step 2** Ratchet the hoist until the wire is lined up with the dead-end fixture.
- Step 3** After the tension is approximately where it will need to be after termination, ratchet the hoist a couple more times to accommodate for tension loss after hoist removal. Consult wire specifications to ensure the maximum wire tension is not exceeded.
- Step 4** When finished, break the tension using the hoist handle, then use either the handle or drum knob to continue releasing the tension.



SAGGING USING A DYNAMOMETER

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



SPLICING

- Step 1** Set up ratchet hoist and Chicago® Grips as shown here.
- Step 2** Connect the KN1500PEX Web Strap Ratchet Hoist to each grip, and ratchet to the desired tension to make the splice. The wire can now be spliced according to standard work procedures and material guidelines.
- Step 3** When finished with the splice, break the tension using the hoist handle, then use either the handle or drum knob to continue releasing the tension.



USING TWO CHICAGO® GRIPS IN TANDEM

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

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

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

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

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

Materials Used:

Klein Tools Chicago® Grips, Klein Tools KN1500PEX web strap ratcheting hoist, Dynamometer, chain hoist, leveling block.

Disclaimer:

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



Collins Adjei-Boateng, Grip Assembler,
37 years at Klein Tools

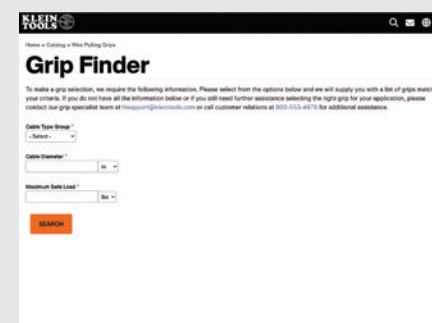
From our facility, to the field.

Our grips reflect a focused commitment to precision production and consistent quality. By keeping manufacturing close to home, we ensure every grip meets the expectations professionals associate with the Klein name.

GRIP RECOMMENDATION

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

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



Grip Finder



Wire Pulling Grips

⚠️ WARNINGS:

Grips are to be used for temporary installation, not for permanent anchorage. When used on or near energized lines, ground, insulate or isolate grip before pulling.

Do not exceed rated capacity. Always match proper size and type of grip to application. Before each use, clean jaw area and inspect grip for proper operation to avoid slippage.

**KLEIN
TOOLS**



MADE IN
USA
EST. 1857
KLEIN TOOLS