

INSULATED PROGRAM

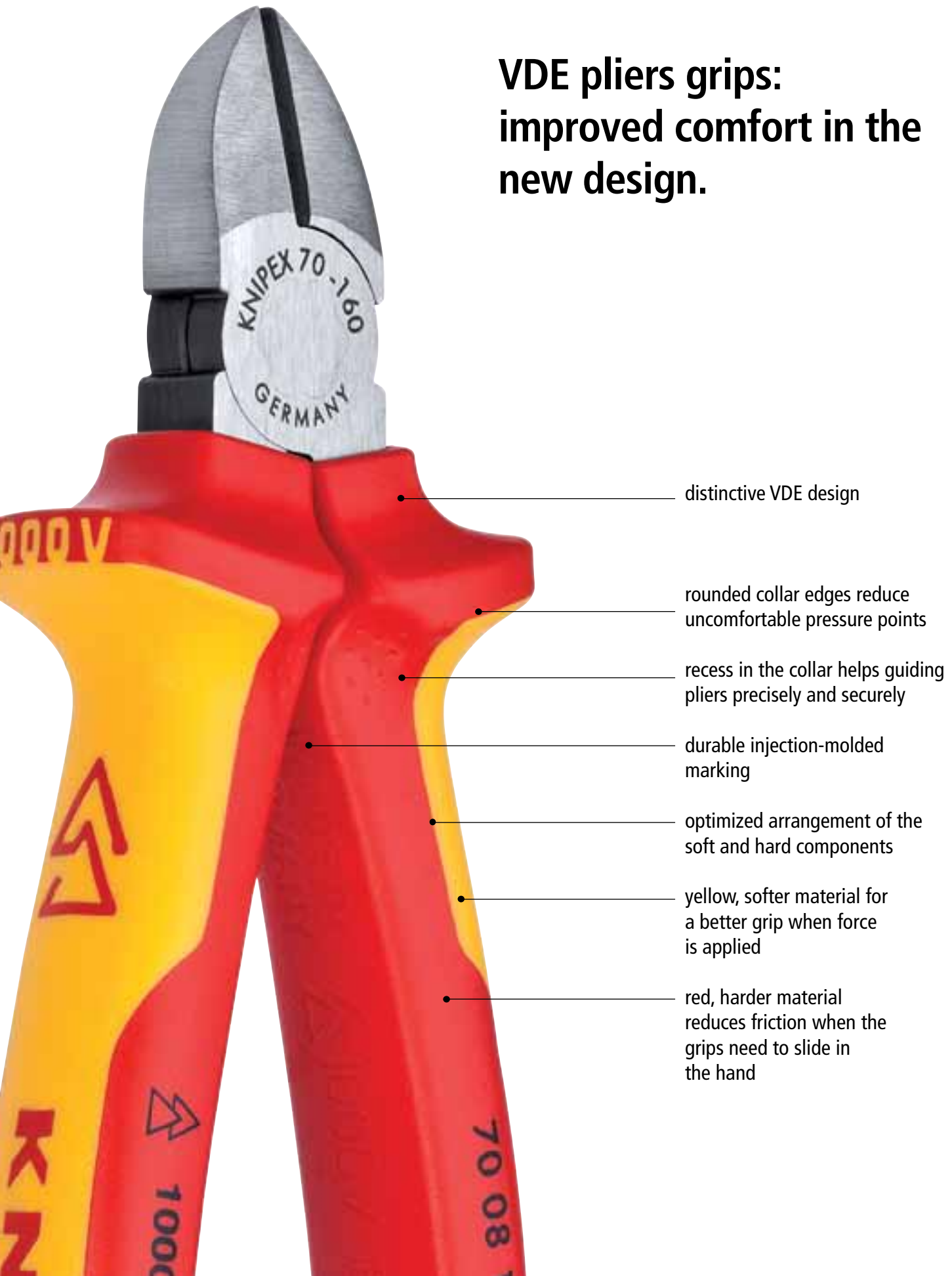


Trusted. Innovative. Ergonomic. Safe.



INSULATED TOOLS

**VDE pliers grips:
improved comfort in the
new design.**



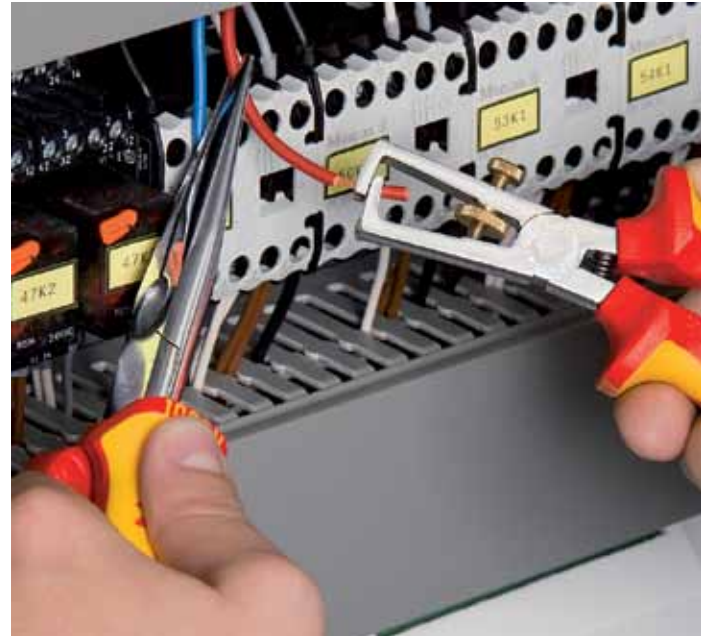
Tactile reliability.

After several years of observing professional users, the designers and engineers at KNIPEX completed analyses of work routines, calculated shapes, tested materials and developed new ideas on how to make our line of insulated tools safer and more ergonomic.

The result is a grip that makes working with KNIPEX VDE tools more reliable and comfortable. The tools serve as a guide to lead the user instinctively through all work routines.

Try them out for yourself...

Experience the KNIPEX difference.



INSULATED TOOLS

Recommendation for Use and In-Service Care of KNIPEX Insulated and Insulating Tools.

This information is for guidance only regarding inspection, maintenance, retesting and use of KNIPEX insulated and insulating tools.

The insulation of KNIPEX insulated and insulating tools is designed in accordance with national and international standards to reduce risk of injury if the tools make contact with an energized source with voltage up to 1000 volts only.

The KNIPEX insulated and insulating tools meet or exceed the IEC 60900 and ASTM F1505 standards for insulated tools and comply with NFPA-70E. They are clearly marked with the official 1000-volt rating symbol.

Always de-energize equipment and lines prior to working on or around them. Always check that lines and equipment are dead with an approved voltage detector prior to starting work. KNIPEX insulated tools are designed only to reduce the chance of injury where the tool may make contact with an energized source.

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

Because moisture, films or other surface contaminants can be conductive, KNIPEX insulated and insulating tools must be kept clean, dry and free from any surface contaminants.

Clean KNIPEX insulated and insulating tools when needed using a mild detergent (such as dishwashing soap). Carefully dry the tools after cleaning with a suitable cloth or paper towel and treat the metallic surfaces with multi-functional oil like WD 40 or similar for rust protection.

Always avoid bodily contact with the uninsulated portion of the tool or any conductive object when either might make contact with an energized source.

Always wear approved eye protection when working with or around hand tools.



Temperature

According to their capability in accordance with the relevant standards, KNIPEX insulated and insulating tools should be used only in areas having temperatures between -20°C and $+70^{\circ}\text{C}$ (-4°F – $+158^{\circ}\text{F}$).

Inspection before use

Before each use, KNIPEX insulated and insulating tools should be inspected visually by the user. If there is any doubt concerning the safety of the tool, **DO NOT USE!** The tools should either be scrapped or subject to examination by a competent person and retested (in accordance with the relevant standards) if necessary.

Do not use a KNIPEX insulated tool if there are visible cracks, breaks, nicks, burns or other damage in the handles. If such damages are present, the tool must be disposed of immediately.

In addition to inspecting the tools before each use, the relevant standards recommend an annual visual examination by a suitably trained person to determine if the tools are suitable for continued service.

Regarding retesting, the relevant standards state: "If an electrical retest is required by national regulation or by customer specifications or in case of doubt after visual examination, the routine test shall apply."

*Routine dielectric test = 10kV for 10 seconds (see standards for specific test details).

Storage

KNIPEX insulated or insulating hand tools should be stored properly to minimize risk of damage to the insulation due to storage or transportation. These tools should be stored separately from other tools to avoid mechanical damage. Furthermore, these tools should be protected from excessive heat (for example heating or steam pipes) as well as UV-radiation.



KNIPEX – Tools Designed with Your Hand in Mind.

KNIPEX Tools LP is the Sales and Marketing Organization of KNIPEX-Werk and is located in Arlington Heights, Illinois. Founded in 1882, KNIPEX-Werk, Wuppertal, Germany is the largest manufacturer of professional quality pliers on earth. We concentrate our efforts on being the best pliers manufacturer in terms of quality, innovation and efficiency and our pliers satisfy the highest expectations in terms of performance, ergonomics and service life. Our products are designed to meet the requirements of professional users who must be able to rely on their tools in day-to-day work. With over one thousand separate styles and sizes, KNIPEX offers a complete range of pliers for almost every application in trade and industry.



1000V High Leverage Combination Pliers

- heavy duty pliers with gripping zones for flat and round material
- with cutting edges for soft, hard and piano wire. Long cutting edges for thicker cable.
- 35% savings in power due to improved lever action compared with conventional combination pliers
- cutting edges additionally induction hardened to approximately 63 HRC
- 1000V, Dual Component Insulated handles



02 08 225 SBA

Part number	Description	UPC Code	Length	Cutting Capacities	
				hard	piano
02 08 200 SBA	1000V High Leverage Combination Pliers	843221018597	8"	7/64"	5/64"
02 08 225 SBA	1000V High Leverage Combination Pliers	843221000486	9"	1/8"	3/32"

1000V Combination Pliers

- with gripping zones for flat and round material
- with cutting edges for soft and hard wire. Long cutting edges for thicker cable.
- cutting edges additionally induction hardened to approximately 60 HRC
- 1000V, Dual Component Insulated handles



03 08 200 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities	
				med. / hard	hard
03 08 160 SBA	1000V Combination Pliers	843221018610	6 1/4"	1/8"	5/64"
03 08 180 SBA	1000V Combination Pliers	843221018627	7 1/4"	1/8"	5/64"
03 08 200 SBA	1000V Combination Pliers	843221018634	8"	5/32"	3/32"

1000V Lineman's Pliers

- cuts hard and soft wire, ACSR, bolts, screws and nails
- features a high leverage construction that requires 40% less effort compared to conventional lineman's pliers
- a cross-hatch gripping zone in the jaws enables strong gripping and pulling
- includes an additional gripping zone below the joint for powerful leverage and squeezing performance
- ergonomically optimized handle shape allows firm, comfortable contact for the hand
- 1000V, Dual Component Insulated handles



09 08 240 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities	
				med. / hard	hard
09 08 240 SBA	1000V Lineman's Pliers	843221000479	9 1/4"	3/16"	1/8"

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1000V Insulation Stripper

- strips wire up to 7 AWG
- easy adjustment to the required diameter of solid or stranded wire with knurled screw and lock nut
- 1000V, Dual Component Insulated handles



11 08 160 SBA

Part Number	Description	UPC Code	Length	Capacities
11 08 160 SBA	1000V Insulation Stripper	843221018641	6 1/4"	7 AWG

1000V Round Nose Pliers

- for use in forming wire loops
- precision ground, short and round jaws
- smooth tips
- 1000 V, Dual Component Insulated handles



22 08 160 SBA

Part Number	Description	UPC Code	Length
22 08 160 SBA	1000V Round Nose Pliers	843221018658	6 1/4"

1000V Snipe Nose Side Cutting Pliers

- perfect for gripping and cutting work in precision mechanics
- pointed, half-round jaws with serrated gripping surfaces
- with cutting edges for medium hard and hard wire
- cutting edges additionally induction hardened to approximately 61 HRC
- 1000V, Dual Component Insulated handles



25 08 160 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities	
				med. / hard	hard
25 08 160 SBA	1000V Snipe Nose Side Cutting Pliers	843221018665	6 1/4"	3/32"	1/16"



1000V Chain Nose Side Cutting Pliers

- high-loadable, elastic precision tips
- half round, long jaws with cutting edges for medium hard wire of 1/8" in diameter and hard wire up to 5/64"
- serrated gripping surfaces
- cutting edges additionally induction hardened to approximately 61 HRC
- 1000V, Dual Component Insulated handles



26 18 200 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities	
				med. / hard	hard
26 18 200 SBA	1000V Chain Nose Side Cutting Pliers - Straight	843221000509	8"	1/8"	5/64"
26 28 200 SBA	1000V Chain Nose Side Cutting Pliers - 40° Angled	843221019297	8"	1/8"	5/64"

1000V Diagonal Cutter

- the essential cutting tool for versatile use
- high quality material and precise workmanship for long service life
- precision cutting edges cut soft and hard wire cleanly
- cutting edges additionally induction hardened to approximately 62 HRC
- narrow head style for use in confined areas
- 1000V, Dual Component Insulated handles



70 08 180 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities		
				soft	med. / hard	hard
70 08 160 SBA	1000V Diagonal Cutter	843221018672	6 1/4"	5/32"	7/64"	5/64"
70 08 180 SBA	1000V Diagonal Cutter	843221018689	7 1/4"	5/32"	1/8"	3/32"

1000V High Leverage Diagonal Cutter

- high leverage precision matched, induction hardened cutting edges cut soft, hard and ACSR wire
- heavy duty fixed forged axle rivet joint ensures smooth operation and long life
- 1000V, Dual Component Insulated handles



74 08 250 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities		
				med. / hard	hard	piano wire
74 08 200 SBA	1000V High Leverage Diagonal Cutter	843221000523	8"	11/64"	1/8"	3/32"
74 08 250 SBA	1000V High Leverage Diagonal Cutter	843221001216	10"	3/16"	9/64"	1/8"

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1000V Pliers Wrench

- gripping pliers and wrench in a single tool
- excellent for gripping, holding, pressing and bending
- zero backlash jaw surface pressure prevents damage to the work piece
- 10 to 1 lever transmission ratio
- parallel jaws
- push-button adjustment
- 1000V, Dipped Insulated handles



86 07 250 SBA

Part Number	Description	UPC Code	Length	Capacities
86 07 250 SBA	1000V Pliers Wrench	843221006969	10"	1 3/4"

1000V Cobra® Water Pump Pliers

- easily grips pipes, nuts and bolts
- gripping surface with special hardened teeth is wear resistant and grips any shaped object
- self-locking on pipes and nuts means no slipping on the work piece
- patented push-button mechanism – adjust once and it stays
- 1000V, Dual Component Insulated handles



87 28 250 SBA

Part Number	Description	UPC Code	Length	Capacities
87 28 250 SBA	1000V Cobra® Pliers	843221010560	10"	2"

1000V Alligator® Water Pump Pliers

- gripping surface with special hardened teeth is wear resistant and grips any shaped object
- fine adjustment means an optimum adjustment to different size work pieces
- box-joint design provides directional stability
- 1000V, Dual Component Insulated handles



88 08 250 SBA

Part Number	Description	UPC Code	Length	Capacities
88 08 250 SBA	1000V Alligator® Pliers	843221001339	10"	2"

1000V XL Cable Shears

- precision ground, hardened blades cut copper and aluminum cables, and single and multiple wire. Cutting capacity = 1" diameter.
- provides a clean and smooth cut without crushing or deformation
- low hand force required due to a powerful lever action ratio and advanced blade geometry
- features an adjustable screw joint and guard
- 1000V, Dipped Insulated handles



95 17 500

Part Number	Description	UPC Code	Length	Cutting Capacities
95 17 500	1000V XL Cable Shears	843221005702	19 3/4"	5/0 AWG

1000V Cable Shears

- precision ground, hardened blades cut copper and aluminum cables, and single and multiple wire
- provides a clean and smooth cut without crushing or deformation
- easy cutting – one-handed operation
- adjustable screw joint; self-locking
- 1000V, Dual Component Insulated handles



95 18 200 SBA

Part Number	Description	UPC Code	Length	Cutting Capacities
95 18 165 SBA	1000V Cable Shears	843221001360	6 1/2"	1/0 AWG
95 18 200 SBA	1000V Cable Shears	843221000530	8"	2/0 AWG

1000V Cable Cutter (Ratchet-Action)

- precision ground, hardened blades cut copper and aluminum cables, and single and multiple wire
- for a clean and smooth cut without crushing or deformation
- one-handed operation using ratcheting principle. Two-stage ratchet drive for easy cutting.
- low hand force required due to an optimum transmission ratio
- with guard
- 1000V, Dual Component Insulated handles



95 36 250

Part Number	Description	UPC Code	Length	Cutting Capacities
95 36 250	1000V Cable Cutter (Ratchet-Action)	843221002220	10"	500 MCM
95 36 280	1000V Cable Cutter (Ratchet-Action)	843221002237	11"	750 MCM

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1000V Dismantling Knives

- ergonomically improved handle shape with comfortable slip guard
- slip-proof soft components provide a solid grip
- thumb recess and "finger hook" at the end of the handle ensure a good transmission of force when the blade is pulled
- transparent protective cap

98 56 SB

- straight blade with special sharpening; replaceable*
- with hinged blade guard integrated in the handle*
- back of the blade is plastic coated to avoid short circuits*



98 55 SB



98 56 SB

Part Number	Description	UPC Code	Length
98 52	1000V Dismantling Knife	843221006419	7 1/4"
98 54 SB	1000V Dismantling Knife	843221017873	7 1/4"
98 55 SB	1000V Dismantling Knife with Guide Shoe	843221017880	6"
98 56 SB*	1000V Dismantling Knife with Guard	843221017897	7 1/4"

13 Piece Electricians Set 9K 00 80 03 US

UPC Code: 843221008443

Component	Description
02 08 225	9" Combination Pliers
11 18 160	6 1/4" End Wire Strippers
26 18 200	8" Snipe Nose Side Cutting Pliers
74 08 200	8" Diagonal Cutting Pliers
88 08 250	10" Alligator® Water Pump Pliers
95 18 200	8" Cable Shears
98 54	Cable Knife
9T 74124	PROTOP Insulated 4" Slotted Screwdriver
9T 74126	PROTOP Insulated 6" Slotted Screwdriver
9T 74522	PROTOP Insulated Ph1 x 3" Screwdriver
9T 74523	PROTOP Insulated Ph2 x 4" Screwdriver
9T 74108	PROTOP Insulated 8"
9T 74504	PROTOP Insulated 6" PH3



19 Piece Safety Insulated Set 9K 00 80 04 US

UPC Code: 843221008314

Component	Description
03 08 200	8" Combination Pliers
70 08 180	7 1/4" Diagonal Cutting Pliers
98 54	Cable Knife
98 00 1"	Open Jaw Wrenches
98 00 1/2"	Open Jaw Wrenches
98 00 1/4"	Open Jaw Wrenches
98 00 3/4"	Open Jaw Wrenches
98 00 3/8"	Open Jaw Wrenches
98 00 5/8"	Open Jaw Wrenches
98 31	Reversible Ratchets, 3/8"
98 35 250	Extension Bars, 3/8"
98 37 1/2"	Hexagon Socket Wrenches, 3/8"
98 37 1/4"	Hexagon Socket Wrenches, 3/8"
98 37 3/4"	Hexagon Socket Wrenches, 3/8"
98 37 3/8"	Hexagon Socket Wrenches, 3/8"
98 37 5/8"	Hexagon Socket Wrenches, 3/8"
9T 74124	PROTOP Insulated 4" Slotted Screwdriver
9T 74126	PROTOP Insulated 6" Slotted Screwdriver
9T 74523	PROTOP Insulated Ph2 X 4" Screwdriver
9T 74125	PROTOP Insulated 5"
9T 74802	PROTOP Square Drive #2



INSULATED TOOLS

KNIPEX / Witte-Insulated Set 9K 00 80 06 US

UPC Code: 843221008467

Component	Description
26 18 200 US	8" Snipe Nose Side Cutting Pliers
74 08 200 US	8" Diagonal Cutting Pliers
02 08 225 US	9" High Leverage Combination Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
95 18 165 US	6 1/4" Cable Shears
9T 53704	MAXXPRO VDE Slotted
9T 53705	MAXXPRO VDE Slotted
9T 53706	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips
9T 54812	MAXXPRO VDE Square



12 Piece Insulated Set 9K 00 80 51 US

UPC Code: 843221009908

Component	Description
09 08 240 US	9 1/4" Lineman's Pliers
26 18 200 US	8" Snipe Nose Side Cutting Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
74 08 200 US	8" Diagonal Cutting Pliers
95 18 165 US	6 1/2" Cable Shears
11 08 160	6 1/4" End Wire Strippers
98 52	Cable Knife
9T 53704	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square
9T 53712	MAXXPRO VDE Phillips
9T 53711	MAXXPRO VDE Phillips
9T 53706	MAXXPRO VDE Slotted



15 Piece Insulated Tool Set 9K 00 80 31 US

UPC Code: 843221008833

Component	Description
09 08 240 US	9 1/4" Lineman's Pliers
26 18 200 US	8" Snipe Nose Side Cutting Pliers
95 18 200 US	8" Cable Shears
74 08 200 US	8" Diagonal Cutting Pliers
98 54	Cable Knife
11 08 160	End Wire Stripper
98 00 1/2"	Open Jaw Wrenches
98 00 3/4"	Open Jaw Wrenches
98 00 5/8"	Open Jaw Wrenches
98 00 7/8"	Open Jaw Wrenches
98 00 9/16"	Open Jaw Wrenches
9T 53701	MAXXPRO VDE Slotted
9T 53705	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips
9T 54812	MAXXPRO VDE Square



5 Piece Insulated Automotive Electrical Set 9K 98 98 20 US

UPC Code: 843221006921

Component	Description
74 08 250 US	10" Diagonal Cutting Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
9T 53704	MAXXPRO VDE Slotted
9T 53706	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips



INSULATED TOOLS

5 Piece Insulated Tradesman Set 9K 98 98 21 US

UPC Code: 843221005566

Component	Description
74 08 200 US	8" Diagonal Cutting Pliers
02 08 225 US	9" High Leverage Combination Pliers
9T 53712	MAXXPRO VDE Phillips
9T 53705	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square



5 Piece Insulated High Leverage Set 9K 98 98 22 US

UPC Code: 843221005573

Component	Description
74 08 250 US	10" Diagonal Cutting Pliers
09 08 240 US	9 1/4" Lineman's Pliers
9T 54812	MAXXPRO VDE Square
9T 53705	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips



7 Piece Insulated Tool Set 9K 98 98 25 US

UPC Code: 843221005580

Component	Description
26 18 200 US	8" Snipe Nose Side Cutting Pliers
74 08 200 US	8" Diagonal Cutting Pliers
02 08 225 US	9" High Leverage Combination Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
9T 53705	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square
9T 53712	MAXXPRO VDE Phillips



7 Piece Insulated Tool Set 9K 98 98 26 US

UPC Code: 843221005597

Component	Description
26 18 200 US	8" Snipe Nose Side Cutting Pliers
09 08 240 US	9 1/4" Lineman's Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
74 08 250 US	10" Diagonal Cutting Pliers
9T 53705	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square
9T 53712	MAXXPRO VDE Phillips



7 Piece Insulated Tool Set 9K 98 98 27 US

UPC Code: 843221006938

Component	Description
26 18 200 US	8" Snipe Nose Side Cutting Pliers
74 08 200 US	8" Diagonal Cutting Pliers
02 08 225 US	9" High Leverage Combination Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
9T 53704	MAXXPRO VDE Slotted
9T 53706	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips



**Custom sets are
also available.**



INSULATED TOOLS

10 pc Insulated Industrial Tool Set 9K 98 98 30 US

UPC Code: 843221005603

Component	Description
02 08 225 US	9" High Leverage Combination Pliers
26 18 200 US	8" Snipe Nose Side Cutting Pliers
74 08 200 US	8" Diagonal Cutting Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
95 18 165 US	6 1/4" Cable Shears
9T 53704	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square
9T 53706	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips
9T 53711	MAXXPRO VDE Phillips



10 pc Insulated Tool Set 9K 98 98 31 US

UPC Code: 843221005610

Component	Description
09 08 240 US	9 1/4" Lineman's Pliers
26 18 200 US	8" Snipe Nose Side Cutting Pliers
74 08 250 US	10" Diagonal Cutting Pliers
88 08 250 US	10" Alligator® Water Pump Pliers
95 18 165 US	6 1/4" Cable Shears
9T 53704	MAXXPRO VDE Slotted
9T 54812	MAXXPRO VDE Square
9T 53706	MAXXPRO VDE Slotted
9T 53712	MAXXPRO VDE Phillips
9T 53711	MAXXPRO VDE Phillips



Sockets - 3/8" and 1/2" Drive

Part Number	Description	Size	Contained in Set #
98 37 1/4"	Fractional - 3/8" Drive	1/4"	98 99 11 S3
98 37 5/16"		5/16"	
98 37 3/8"		3/8"	
98 37 7/16"		7/16"	
98 37 1/2"		1/2"	
98 37 9/16"		9/16"	
98 37 5/8"		5/8"	
98 37 3/4"		3/4"	
98 37 10	Metric - 3/8" Drive	10 mm	98 99 11 S4
98 37 11		11 mm	
98 37 12		12 mm	
98 37 13		13 mm	
98 37 14		14 mm	
98 37 17		17 mm	
98 37 19		19 mm	
98 47 3/8"	Fractional - 1/2" Drive	3/8"	98 99 11 S5
98 47 7/16"		7/16"	
98 47 1/2"		1/2"	
98 47 9/16"		9/16"	
98 47 5/8"		5/8"	
98 47 11/16"		11/16"	
98 47 3/4"		3/4"	
98 47 13/16"		13/16"	
98 47 7/8"		7/8"	
98 47 15/16"		5/16"	
98 47 1"		1"	
98 47 1 1/8"		1 1/8"	
98 47 1 1/4"		1 1/4"	
98 47 10	Metric - 1/2" Drive	10 mm	98 99 11 S6
98 47 11		11 mm	
98 47 12		12 mm	
98 47 13		13 mm	
98 47 14		14 mm	
98 47 17		17 mm	
98 47 19		19 mm	
98 47 22		22 mm	
98 47 24		24 mm	
98 47 27		27 mm	
98 47 30		30 mm	
98 47 32		32 mm	



98 37 17



98 99 11 S3

Our 10 Piece Insulated Socket Sets contain Hexagon Sockets, a 5" and 10" Extension Bar and a Reversible Ratchet Drive. Packaged in a custom-fit black carrying case, there are four variations of these sets - a standard and metric version for the 3/8" drive and the 1/2" drive.

INSULATED TOOLS

Hex Drive Sockets

Part Number	Description	Size	Total Length
98 39 05	Metric - 3/8" Drive	5 mm	3"
98 39 06		6 mm	3"
98 39 08		8 mm	3"
98 49 05	Metric - 1/2" Drive	5 mm	3"
98 49 06		6 mm	3"
98 49 08		8 mm	3"



98 39 06

Open End Wrenches

Part Number	Style	Jaw Size	Length	Contained in Set #
98 00 1/4"	Fractional	1/4"	4 1/4"	98 99 13 S4
98 00 5/16"		5/16"	4 1/4"	98 99 13 S4
98 00 3/8"		3/8"	4 1/4"	98 99 13 S4
98 00 7/16"		7/16"	4 3/4"	98 99 13 S4
98 00 1/2"		1/2"	5 1/2"	98 99 13 S4
98 00 9/16"		9/16"	6"	98 99 13 S4
98 00 5/8"		5/8"	6 1/2"	98 99 13 S4
98 00 3/4"		3/4"	7 1/2"	98 99 13 S4
98 00 1"		1"	8"	
98 00 1 1/16"		1 1/16"	8 1/2"	
98 00 07	Metric	7 mm	105 mm	
98 00 08		8 mm	105 mm	98 99 13 S5
98 00 09		9 mm	105 mm	
98 00 10		10 mm	105 mm	98 99 13 S5
98 00 11		11 mm	120 mm	
98 00 12		12 mm	125 mm	
98 00 13		13 mm	130 mm	98 99 13 S5
98 00 14		14 mm	135 mm	98 99 13 S5
98 00 15		15 mm	145 mm	
98 00 16		16 mm	155 mm	
98 00 17		17 mm	155 mm	98 99 13 S5
98 00 18		18 mm	160 mm	
98 00 19		19 mm	165 mm	98 99 13 S5
98 00 22		22 mm	190 mm	98 99 13 S5
98 00 24		24 mm	210 mm	98 99 13 S5
98 00 27		27mm	215 mm	



98 00 14

- 15" offset jaw
- basic wrench made from Chrome vanadium electric steel
- heavy duty dipped PVC handle provides 1000V protection plus comfort



98 99 13 S4

Box End Wrenches

Part Number	Style	Jaw Size	Length	Contained in Set #
98 01 5/16"	Fractional	5/16"	6"	98 99 15 S4
98 01 3/8"		3/8"	6 1/4"	
98 01 7/16"		7/16"	9"	
98 01 9/16"		9/16"	7 3/4"	
98 01 5/8"		5/8"	8"	
98 01 11/16"		11/16"	8"	98 99 15 S4
98 01 3/4"		3/4"	9"	
98 01 7/8"		7/8"	9"	
98 01 1"		1"	10 1/2"	
98 01 1 1/16"		1 1/16"	10 1/2"	
98 01 07	Metric	7 mm	150 mm	98 99 14 S4
98 01 08		8 mm	155 mm	
98 01 09		9 mm	165 mm	
98 01 10		10 mm	160 mm	
98 01 11		11 mm	165 mm	
98 01 12		12 mm	185 mm	98 99 14 S4
98 01 13		13 mm	185 mm	
98 01 14		14 mm	195 mm	98 99 14 S4
98 01 15		15 mm	200 mm	98 99 14 S4
98 01 16		16 mm	200 mm	
98 01 17		17 mm	205 mm	
98 01 18		18 mm	210 mm	98 99 14 S4
98 01 19		19 mm	225 mm	
98 01 22		22 mm	225 mm	98 99 14 S4
98 01 24		24 mm	265 mm	



98 01 14

- cranked (offset) head
- basic wrench made from Chrome vanadium electric steel
- heavy duty dipped PVC handle provides 1000V protection plus comfort



98 99 14 S4

T-Handle Drive

- quick, easy and reliable locking of attached sockets
- basic tool - chrome plated
- high-grade special tool steel; forged, oil-hardened

Part Number	Description	UPC Code	Length	Handle Length
98 30	3/8" Drive	843221017552	8"	6 1/2"
98 40	1/2" Drive	843221006334	8"	6 1/2"



98 40

INSULATED TOOLS

Reversible Ratchet

- for quickly and securely using sockets
- forged from Chrome vanadium steel for greater strength
- reversible for clockwise and counterclockwise operation

Part Number	Description	UPC Code	Total Length
98 31	3/8" Drive w/ reversible locking switch	843221005719	7 1/2"
98 41	1/2" Drive w/ reversible locking switch	843221005740	10 1/2"
98 42	1/2" Drive (manually reversible)	843221017675	10 1/2"



Socket Extensions and Adapters

- forged from Chrome vanadium steel for greater strength
- overlapping PVC insulation increases safety level when used with other KNIPEX ratchets and handles
- chrome plated for maximum corrosion resistance

Part Number	Description	UPC Code	Total Length
98 35 125	3/8" Drive extension	843221005726	5"
98 35 250		843221005733	10"
98 45 125	1/2" Drive extension	843221005764	5"
98 45 250		843221005771	10"



Torque Wrench (Reversible)

- made from Chrome vanadium steel for greater strength
- range of application 5-50 Nm; range of application for 98 33 25 is 5-25 Nm
- lockable torque adjustment
- reversible for clockwise and counterclockwise turning
- calibration certificate included

Part Number	Description	UPC Code	Total Length
98 33 25	3/8" Drive	843221019457	11 1/4"
98 33 50	3/8" Drive	843221017569	15"
98 43 50	1/2" Drive	843221017682	15"

