



Professional Insulated Tools

Supporting
Arc Flash Protection

Updated
3/1/10

Innovations that work

10,000 Volt
Tested

1000 Volt Rated

Arc Flash Protection:

Wiha Insulated tools can be a vital component in your Arc Flash protection strategy. What is Arc Flash?

ARC FLASH

An Arc Flash is an electrical explosion due to a fault condition or short circuit when either a phase to ground or phase to phase conductor is connected. Arc flashes cause electrical equipment to explode, resulting in an arc-plasma fireball. Temperatures may exceed 35,000° F (the surface of the sun is 9000° F). These high temperatures cause rapid heating of surrounding air and extreme pressures, resulting in an arc blast. The arc blast will likely vaporize all solid copper conductors which will expand up to 67,000 times its original volume when it is vaporized. The result of this violent event is usually destruction of the equipment involved, fire, and severe injury or death to any nearby people.

WHY ARC FLASHES HAPPEN

There are a variety of reasons why an Arc Flash can occur, but most of them are preventable. Most arc flashes occur when maintenance workers are manipulating live equipment for testing or repair and accidentally cause a fault. Improper tools, improper electrical equipment, corrosion of equipment, improper work techniques and lack of training are just some of the events that can lead to a devastating arc flash or arc blast.

ARC FLASH COMPLIANCE

There are 4 main regulations that govern electrical safety & arc flash:

1. OSHA Standards 29CFR, Part 1910. Occupational Safety and Health Standards. 1910 sub part S (electrical) Standard number 1910.333 specifically addresses Standards for Work Practices and references NFPA 70E. OSHA 29CFR 1910.335 (a) (1)(i) requires the use of protective equipment when working where a potential electrical hazard exists and 29CFR 1910.132(d)(1) which requires the employer assess the workplace for hazards and the need for personal protective equipment. OSHA compliance is required by any plant building or facility.
2. The National Fire Protection Association (NFPA) Standard 70 - 2002 "The National Electrical Code" (NEC) contains requirements for warning labels.
3. NFPA 70E provides guidance on implementing appropriate work practices that are required to safeguard workers from injury while working on or near exposed electrical conductors or circuit parts that could become energized. Part II 2-1.3.3 regarding Arc Flash Analysis states that a "Flash Hazard Analysis shall be done before a person approaches any exposed electrical conductor or circuit part that has not been placed in an electrical safe work condition". This Arc Flash Hazard Analysis must be done to determine the level of Personal Protection Equipment PPE that a worker must use, and the Arc Flash Boundary in inches along with the incident energy found at each location. Each panel must be marked with an ANSI z535 approved Arc Flash Warning Label.
4. The Institute of Electronics and Electrical Engineers (IEEE) 1584 - 2002 Guide to Performing Arc-Flash Hazard Calculations

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<http://www.martinarcflash.com>

OSHA

Wiha tools assists with compliance of OSHA 29CFR 1910 (Sub Parts electrical standard)

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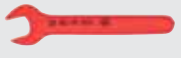
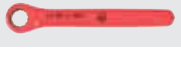
Use & Care Guide For Insulated Tools:

Store tools to minimize risk of damage to insulation, always wear approved eye protection, inspect insulation prior to each use of any insulated tool. Use insulated tools where the ambient temperature is between -20 to +70° C. Have a qualified safety technician visually inspect insulation on tools annually for safe use.

WARNING!

Insulated Tools are intended to provide protection against accidental contact with charged energized circuits. For maximum safety we recommend de-energizing all circuits whenever possible before starting work on electrical apparatus or conductors. Always visually inspect insulation on tools before use, do not use tools if insulation shows signs of wear or damage to the insulated areas of the tool. Wear appropriate eye protection when using hand tools. Use NFPA70E certified insulated protective outer wear when appropriate.

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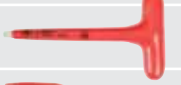
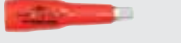
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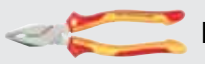
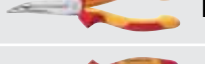
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Wiha Insulated Open-End Wrenches

Insulation Test Standards:

Insulation according to ASTM F-1505-01,
EN/IEC 60900, VDE 0680, DIN 7446
and CSA

Each tool individually
tested to 10,000 volts
and certified to 1000
Volt ac or 1500 Volt dc

Insulation
High visibility, grip is
double coated

Steel
Forged from chrome
vanadium, meets - DIN 3110

Angled 15°

 **1000V**



 **1000Volt**

201 90 14 Piece Insulated Inch Open End Wrench Set

Item		 MM	OAL			 MM	OAL	
No.		Inch	Inch			Inch	Inch	lbs.
201 90	201 33	5/16	3.9	201 42	3/4	7.0		5.70
	201 35	3/8	4.1	201 44	13/16	7.5		
	201 36	7/16	4.6	201 45	7/8	7.6		
	201 37	1/2	5.5	201 46	15/16	7.9		
	201 38	9/16	5.7	201 47	1	8.4		
	201 40	5/8	6.2	201 48	1-1/16	9.2		
	201 41	11/16	6.5	201 49	1-1/8	9.1		



 **1000Volt**

200 91 15 Piece Insulated Metric Open End Wrench Set

Item		 MM	OAL	 MM		OAL	
No.		mm	mm	mm		mm	lbs.
200 91	200 06	6	97	200 14	14	150	3.0
	200 07	7	98	200 15	15	151	
	200 08	8	104	200 16	16	164	
	200 09	9	108	200 17	17	162	
	200 10	10	107	200 19	19	178	
	200 11	11	118	200 22	22	196	
	200 12	12	129	200 24	24	211	
	200 13	13	137				



 **1000Volt**

201 92 8 Piece Insulated Inch Open End Wrench Set

Item		 MM	OAL	 MM		OAL	
No.		Inch	Inch	Inch		Inch	lbs.
201 92	201 33	5/16	3.9	201 38	9/16	5.7	1.59
	201 35	3/8	4.1	201 40	5/8	6.2	
	201 36	7/16	4.6	201 41	11/16	6.5	
	201 37	1/2	5.5	201 42	3/4	7.0	



 **1000Volt**

200 93 8 Piece Insulated Metric Open End Wrench Set

Item			OAL			OAL	
No.		mm	mm	mm		mm	lbs.
200 93	200 06	6	97	200 13	13	137	1.4
	200 07	7	98	200 14	14	150	
	200 08	8	104	200 17	17	162	
	200 10	10	107	200 19	19	178	


 **1000Volt**
201 Inch Open-End Wrenches, With Insulated Handle

Insulation According to VDE Specification 0680 and EN/IEC 60900, DIN 7446 and CSA, up to 1000 Volt. Individually Tested. Chrome-vanadium steel, hardened. Angled 15°.

Item No.	ØMM Inch	OAL mm	OAL Inch	Capacity lbs.	pkg.
201 33	5/16	100	3.9	.05	1
201 35	3/8	105	4.1	.09	1
201 36	7/16	117	4.6	.09	1
201 37	1/2	140	5.5	.15	1
201 38	9/16	146	5.7	.15	1
201 40	5/8	158	6.2	.20	1
201 41	11/16	165	6.5	.23	1
201 42	3/4	178	7.0	.33	1
201 44	13/16	191	7.5	.42	1
201 45	7/8	192	7.6	.44	1
201 46	15/16	201	7.9	.51	1
201 47	1	213	8.4	.61	1
201 48	1-1/16	233	9.2	.79	1
201 49	1-1/8	233	9.2	.77	1

* Lengths are +/- 5% due to coating process


 **1000Volt**
200 Metric Open-End Wrenches, With Insulated Handle

Insulation According to VDE Specification 0680 and EN/IEC 60900, DIN 7446 and CSA, up to 1000 Volt. Individually Tested. Chrome-vanadium steel, hardened. Angled 15°.

Item No.	ØMM mm	OAL mm	OAL Inch	Capacity lbs.	pkg.
200 06	6	97	3.8	.04	1
200 07	7	98	3.9	.05	1
200 08	8	104	4.1	.07	1
200 09	9	108	4.3	.07	1
200 10	10	107	4.2	.08	1
200 11	11	118	4.6	.11	1
200 12	12	129	5.1	.11	1
200 13	13	137	5.4	.19	1
200 14	14	150	5.9	.19	1
200 15	15	151	5.9	.17	1
200 16	16	164	6.5	.22	1
200 17	17	162	6.4	.24	1
200 18	18	173	6.8	.41	1
200 19	19	178	7.0	.32	1
200 22	22	196	7.7	.39	1
200 24	24	211	8.3	.58	1
200 27	27	218	8.6	.68	1
200 30	30	235	9.3	.97	1
200 32	32	237	9.3	1.01	1

Wiha Insulated Adjustable Wrenches

 **1000Volt**
762 08 Insulated 8" Adjustable Wrenches

Insulation According to ASTM, EN/IEC, NFPA, CSA and ISO Specification, up to 1000 Volt. Individually Tested. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	pkg.
762 08	8.0	200	1"	.7	1

 **1000Volt**
762 10 Insulated 10" Adjustable Wrenches

Insulation According to ASTM, EN/IEC, NFPA, CSA and ISO Specification, up to 1000 Volt. Individually Tested. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	pkg.
762 10	10.0	250	1-1/4"	1.4	1

 **1000Volt**
762 12 Insulated 12" Adjustable Wrenches

Insulation According to ASTM, EN/IEC, NFPA, CSA and ISO Specification, up to 1000 Volt. Individually Tested. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	pkg.
762 12	12.0	300	1-1/2"	1.9	1

 **1000Volt**
762 15 Insulated 15" Adjustable Wrenches

Insulation According to ASTM, EN/IEC, NFPA, CSA and ISO Specification, up to 1000 Volt. Individually Tested. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	pkg.
762 15	15.0	380	1-11/16"	2.8	1



 **1000Volt**

762 90 3 Pc. Insulated Adjustable Wrenches Etched on scale for pre-setting size. Slip guard handle for added protection. In roll-up pouch.

Item No. 762 90 Set includes the following:

 lbs. 4.0 8.0", 10.0", 12.0" Adjustable Pliers

Wiha Insulated Ratchet Wrenches

Insulation Test Standards:

Insulation according to ASTM F-1505-01,
EN/IEC 60900, ISO 3110 and CSA
Specification



Each tool individually
tested to 10,000 volts
and certified to 1000
Volt ac or 1500 Volt dc

Steel

Forged from chrome
vanadium, meets - DIN 3110

 **1000V**



 **1000V**



 **1000V**

213 Inch Insulated Ratchet Wrenches, With Insulated Handle Insulation According to EN/IEC 60900, ISO 3110 Specification, Up To 1000 Volt. Individually Tested.

Blade chrome-vanadium steel, hardened.

Item No.		OAL	OAL		
	Inch	mm	Inch	lbs.	pkg.
213 25	3/8	140	5.5	.14	1
213 27	7/16	143	5.6	.15	1
213 29	1/2	154	6.1	.18	1
213 31	9/16	162	6.4	.22	1
213 33	5/8	177	7.0	.30	1
213 35	3/4	209	8.2	.46	1

212 Metric Insulated Ratchet Wrenches, With Insulated Handle Insulation According to EN/IEC 60900, ISO 3110 Specification, Up To 1000 Volt. Individually Tested.

Blade chrome-vanadium steel, hardened.

Item No.		OAL	OAL		
	mm	mm	Inch	lbs.	pkg.
212 08	8	125	4.9	.08	1
212 10	10	140	5.5	.12	1
212 12	12	150	5.9	.18	1
212 13	13	152	6.0	.18	1
212 14	14	163	6.4	.22	1
212 17	17	193	7.6	.38	1
212 19	19	210	8.3	.45	1



 **1000V**



 **1000V**



213 91 6 Piece Inch Insulated Ratchet Wrenches Set

Item			OAL			OAL	
No.		Inch	Inch		Inch	Inch	lbs.
213 91	213 25	3/8	5.5	213 31	9/16	6.4	1.95
	213 27	7/16	5.6	213 33	5/8	7.0	
	213 29	1/2	6.1	213 35	3/4	8.2	

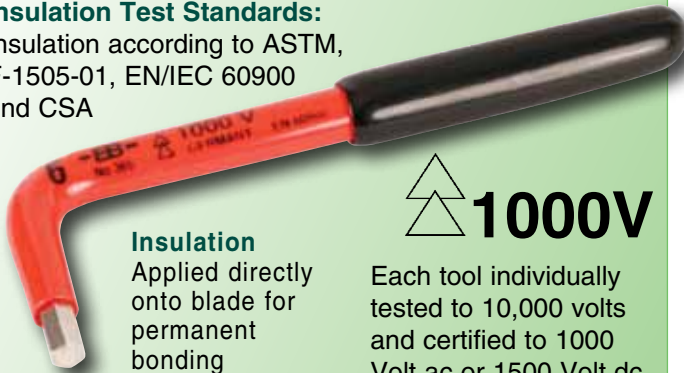
212 90 7 Piece Metric Insulated Ratchet Wrenches Set

11 Piece Metric Insulated Wrenches Set							
Item			OAL			OAL	
No.		mm	mm		mm	mm	lbs.
212 90	212 08	8	4.9	212 14	14	6.4	2.10
	212 10	10	5.5	212 17	17	7.6	
	212 12	12	5.9	212 19	19	8.3	
	212 13	13	6.0				

Wiha Insulated Hex L-keys

Insulation Test Standards:

Insulation according to ASTM,
F-1505-01, EN/IEC 60900
and CSA



Insulation

Applied directly
onto blade for
permanent
bonding

 **1000V**

Each tool individually
tested to 10,000 volts
and certified to 1000
Volt ac or 1500 Volt dc


 **1000Volt**

136 Inch Insulated Hex L-keys, With Insulated Handle

Insulation According to IEC 60900 Specification, Up To 1000 Volt.
Individually Tested. Blade chrome-vanadium steel, hardened.

Item No.	ØMM	OAL	OAL	↺↻	↺↻
No.	Inch	mm	Inch	lbs.	pkg.
136 63	1/8	104	4.1	.06	1
136 65	5/32	104	4.1	.06	1
136 66	3/16	134	5.3	.10	1
136 67	7/32	134	5.3	.12	1
136 68	1/4	134	5.3	.16	1
136 69	5/16	144	5.7	.24	1
136 62	3/8	234	9.2	.51	1
136 64	1/2	234	9.2	.77	1


 **1000Volt**

136 90 8 Piece Insulated Inch Hex L-key Set

Item			OAL			OAL	
No.		Inch	Inch	Inch		Inch	lbs.
136 90	136 63	1/8	4.1	136 68	1/4	5.3	2.17
	136 65	5/32	4.1	136 69	5/16	5.7	
	136 66	3/16	5.3	136 62	3/8	9.2	
	136 67	7/32	5.3	136 64	1/2	9.2	


 **1000Volt**

136 Metric Insulated Hex L-keys, With Insulated Handle

Insulation According to IEC 60900 Specification, Up To 1000 Volt.
Individually Tested. Blade chrome-vanadium steel, hardened.

Item No.	ØMM	OAL	OAL	↺↻	↺↻
No.	mm	mm	Inch	lbs.	pkg.
136 53	3	130	5.1	.10	1
136 54	4	120	4.7	.10	1
136 55	5	140	5.5	.10	1
136 56	6	140	5.5	.13	1
136 58	8	150	5.9	.24	1
136 59	10	220	8.7	.51	1
136 57	12	260	10.2	.77	1

 **1000Volt**

136 91 7 Piece Insulated Metric Hex L-key Set

Item				ØMM		OAL		
No.				mm		mm		
136 91	136 53	3	130	136 58	8	150	2.07	
	136 54	4	120	136 59	10	220		
	136 55	5	140	136 57	12	260		
	136 56	6	140					

Wiha Insulated Hex Bit Sockets


 **1000Volt**

318 Insulated 3/8" Drive Sockets - Insulation according to EN/IEC 60900, DIN 7448 Specification, Up To 1000 Volt.

Individually Tested. Chrome-vanadium steel, forged, oil-hardened.

Item No.	Inch	OAL	↺↻	↺↻
No.	Inch	OAL	lbs.	pkg.
318 05	3/16	3.1"	.13	1
318 07	7/32	3.1"	.14	1
318 09	1/4	3.1"	.14	1
318 11	5/16	3.1"	.16	1
318 13	3/8	3.1"	.18	1
318 15	7/16	3.1"	.20	1
318 17	1/2	3.1"	.22	1

*Sockets must be used with insulated ratchets & extensions


 **1000Volt**

318 90 7 Pc. Insulated 3/8" Drive Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 318 90 Set includes the following:

↺↻ lbs. 1.7 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2"



Wiha Insulated Electrician's Knives

Insulation Test Standards:

Insulation according to
ASTM, EN/IEC, VDE
& CSA Specification
Individually tested

Insulation

molded on for
permanent bonding

1000V

Each tool individually tested to 10,000 volts &
rated to 1000 Volt ac or 1500 Volt dc


1000Volt

150 00 Insulated Electrician's Cable Stripping Knife, With Insulated Handle, Insulation According To VDE Specification, Up To 1000 Volt. Individually Tested.

Blade tool steel, hardened, molded directly on. Cover included.

Item No.	Blade mm	OAL mm	OAL Inch	Weight lbs.	Pkg.
150 00	50	216	8.5	.30	1


1000Volt

150 03 Insulated Electrician's Cable Stripping Knife, With Insulated Handle, Insulation According To VDE Specification, Up To 1000 Volt. Individually Tested. Straight, partly insulated, strong blade.

Insulation molded directly on. Cover included.

Item No.	Blade mm	OAL mm	OAL Inch	Weight lbs.	Pkg.
150 03	50	230	9.0	.23	1


1000Volt

150 50 Insulated Stripping Knife, With Insulated Handle
Insulation According To VDE Specification, Up To 1000 Volt.

Individually Tested. Blade tool steel, hardened. Insulation molded directly on. Hooked cutting edge, half-round ground. Cover included.

Item No.	Blade mm	OAL mm	OAL Inch	Weight lbs.	Pkg.
150 50	35	222	8.75	.22	1

Wiha Insulated 1/4" Sockets & Sets


1000Volt

Inch - 6 Point

313 Insulated 1/4" Drive Sockets - 6 Point, Insulation According To ASTM F-1505-01, DIN 7448 & CSA Specification, Up To 1000 Volt. Individually Tested. Chrome-vanadium steel, forged, oil-hardened.

Item No.	Inch	Weight lbs.	Pkg.
313 36	3/16	.03	1
313 37	7/32	.03	1
313 38	1/4	.03	1
313 39	9/32	.04	1
313 40	5/16	.04	1
313 41	11/32	.05	1
313 42	3/8	.05	1
313 43	7/16	.06	1
313 44	1/2	.07	1
313 45	9/16	.07	1

*Sockets must be used with insulated ratchets & extensions


1000Volt

Metric - 6 Point

313 Insulated 1/4" Drive Sockets - 6 Point, Insulation According To ASTM F-1505-01, DIN 7448 & CSA Specification, Up To 1000 Volt. Individually Tested. Chrome-vanadium steel, forged, oil-hardened.

Item No.	mm	Weight lbs.	Pkg.
313 26	5	.03	1
313 27	6	.03	1
313 28	7	.03	1
313 29	8	.04	1
313 30	9	.04	1
313 31	10	.05	1
313 32	11	.05	1
313 33	12	.06	1
313 34	13	.06	1
313 35	14	.07	1

*Sockets must be used with insulated ratchets & extensions


1000Volt

128 51 Insulated 1/4" Drive Ratchet, EN/IEC 60900 & CSA
Chrome-Vanadium steel. Reversible.

Item No.	Inch	OAL mm	OAL Inch	Weight lbs.	Pkg.
128 51	1/4"	140	5.5	.28	1

Wiha Insulated 1/4" Sockets & Sets



⚡ 1000Volt

313 90 13 Piece Insulated 1/4" Drive Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 313 90 Set includes the following:

⚡ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32,

lbs. 3/8, 7/16, 1/2, 9/16"

1.39 12854 1/4" x 50mm Extension Bar

12855 1/4" x 100mm Extension Bar

12851 1/4" Ratchet - 140mm



⚡ 1000Volt

313 91 13 Piece Insulated 1/4" Drive Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 313 91 Set includes the following:

⚡ 5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm

lbs. 12854 1/4" x 50mm Extension Bar

1.41 12855 1/4" x 100mm Extension Bar

12851 1/4" Ratchet - 140mm

NEW
From Wiha



⚡ 1000Volt

313 95 11 Piece Insulated 1/4" T-handle & Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 313 95 Set includes the following:

⚡ 5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm

lbs. 1.40 29006 - Insulated 1/4" T-handle

Each tool individually tested to 10,000 volts & certified to 1000 Volt ac or 1500 Volt dc

Wiha Insulated 1/4" Socket accessories



⚡ 1000Volt

290 06 Insulated 1/4" Drive T-handle, With Insulated Handle
Insulation according to EN/IEC 60900 & CSA specification, up to 1000 Volt. Individually Tested. Blade CV steel, hardened.

Item No.	⚡	MM	OAL	OAL	⚡	⚡
	Inch	mm	Inch	lbs.	pkg.	
290 06	1/4	160	6.2"	.57	1	



⚡ 1000Volt

NEW
From Wiha



⚡ 1000Volt

313 94 11 Piece Insulated 1/4" T-handle & Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 313 94 Set includes the following:

⚡ 3/16, 7/32, 1/4, 9/32, 5/16, 11/32,

lbs. 3/8, 7/16, 1/2, 9/16"

1.40 29006 - Insulated 1/4" T-handle

128 Insulated 1/4" Extension Bars, ASTM F-1505-01,
EN/IEC 60900 & CSA Chrome-Vanadium steel.

Item No.	⚡	OAL	OAL	⚡	⚡
	Inch	mm	Inch	lbs.	pkg.
128 54	1/4"	50	2.0	.08	1
128 55	1/4"	100	3.9	.12	1

Wiha Insulated 3/8" Sockets & Sets



1000Volt

314 Insulated 3/8" Drive Sockets - Insulation according to EN/IEC 60900, DIN 7448 & CSA specification, up to 1000 Volt. Individually Tested. CV steel, forged, oil-hardened.

Item No.	Inch	lbs.	pkg.
314 25	1/4	.07	1
314 28	9/32	.07	1
314 29	5/16	.07	1
314 30	11/32	.07	1
314 31	3/8	.08	1
314 32	7/16	.08	1
314 33	1/2	.10	1
314 34	9/16	.10	1
314 35	5/8	.10	1
314 36	11/16	.13	1
314 37	3/4	.14	1
314 38	13/16	.17	1
314 39	7/8	.18	1

*Sockets must be used with insulated ratchets & extensions



1000Volt

315 Insulated 3/8" Drive Sockets - Insulation according to VDE, EN/IEC 60900, DIN 7448 & CSA specification, up to 1000 Volt. Individually Tested. Chrome-vanadium steel, forged, oil-hardened.

Item No.	mm	lbs.	pkg.
315 06	6	.07	1
315 07	7	.07	1
315 08	8	.07	1
315 09	9	.07	1
315 10	10	.07	1
315 11	11	.08	1
315 12	12	.10	1
315 13	13	.10	1
315 14	14	.10	1
315 15	15	.10	1
315 16	16	.10	1
315 17	17	.11	1
315 18	18	.12	1
315 19	19	.14	1
315 20	20	.15	1
315 21	21	.17	1
315 22	22	.18	1
315 24	24	.26	1

*Sockets must be used with insulated ratchets & extensions

Wiha Insulated 3/8" Sockets & Sets



1000Volt

314 93 10 Piece Insulated 3/8" Drive Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 314 93 Set includes the following:

5/16, 3/8, 7/16, 1/2,

lbs. 9/16, 5/8, 11/16, 3/4"

2.50 12856 3/8" x 125mm Extension Bar

12852 3/8" Ratchet - 280mm



1000Volt

315 90 10 Piece Insulated 3/8" Drive Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 315 90 Set includes the following:

8, 10, 11, 12, 13, 14, 17, 19mm

lbs. 12856 3/8" x 125mm Extension Bar

2.50 12852 3/8" Ratchet - 280mm



1000Volt

314 91 16 Piece Insulated 3/8" Drive Socket Set - Inch/Metric

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 314 91 Set includes the following:

5/16, 3/8, 7/16, 1/2,

lbs. 9/16, 5/8, 11/16, 3/4"

2.01 8, 10, 11, 12, 13,

14, 17, 19mm

Wiha Insulated 3/8" Sockets & Sets


 **1000Volt**

314 95 24 Piece Insulated 3/8" Drive Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 314 95 Set includes the following:

	1/4, 9/32, 5/16, 11/32, 3/8, 7/16
	1/2, 9/16, 5/8, 11/16, 3/4" Sockets
lbs.	12856 3/8" x 125mm Extension Bar
9.07	12857 3/8" x 250mm Extension Bar
	12852 3/8" Ratchet - 190mm
	15000 Insulated Electrician's Knife - 50mm
	Slotted: 3.5, 4.5, 6.5mm
	Phillips: 1, 2, 3
	32806 6.3" Long Nose Pliers
	32818 8.0" Combo Pliers
	32832 6.3" Diagonal Cutters

*Sockets must be used with insulated ratchets & extensions


 **1000Volt**

315 92 24 Piece Insulated 3/8" Drive Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 315 92 Set includes the following:

	6, 7, 8, 9, 10, 11, 12,
	13, 14, 17, 19mm Sockets
lbs.	12856 3/8" x 125mm Extension Bar
9.08	12857 3/8" x 250mm Extension Bar
	12852 3/8" Ratchet - 190mm
	15000 Insulated Electrician's Knife - 50mm
	Slotted: 3.5, 4.5, 6.5mm
	Phillips: 1, 2, 3
	32806 6.3" Long Nose Pliers
	32818 8.0" Combo Pliers
	32832 6.3" Diagonal Cutters

*Sockets must be used with insulated ratchets & extensions



 **1000Volt**

314 96 11 Piece Insulated 3/8" T-handle & Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 314 96 Set includes the following:

	5/16, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4"
lbs.	12856 - 3/8" x 125mm Extension Bar
2.47	29006 - Insulated 1/4" T-handle

 **1000Volt**

315 95 11 Piece Insulated 3/8" T-handle & Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated after EN/IEC 60900.

Item No. 315 95 Set includes the following:

	8, 10, 11, 12, 13, 14, 17, 19mm
lbs.	12856 - 3/8" x 125mm Extension Bar
2.47	29006 - Insulated 1/4" T-handle

Wiha Insulated 3/8" Socket accessories


 **1000Volt**

128 52 Insulated 3/8" Drive Ratchet, EN/IEC 60900

Chrome-Vanadium steel. Reversible.

Item No.	Inch	OAL mm	OAL Inch	lbs.	pkg.
128 52	3/8"	190	7.5	.93	1


 **1000Volt**

128 Insulated 3/8" Extension Bars, EN/IEC 60900

Chrome-Vanadium steel.

Item No.	Inch	OAL mm	OAL Inch	lbs.	pkg.
128 56	3/8"	125	4.9	.41	1
128 57	3/8"	250	9.8	.57	1


 **1000Volt**

290 09 Insulated 3/8" Drive T-handle

Insulation according to EN/IEC 60900 specification, up to 1000 Volt Rated. Individually Tested. Blade chrome-vanadium steel, hardened.

Item No.	OAL mm	OAL Inch	lbs.	pkg.
290 09	3/8	200	7.9"	.55 1

Wiha Insulated 1/2" Sockets & Sets



 **1000Volt**

317 Insulated 1/2" Drive Sockets - Insulation According to ASTM F-1505-01, DIN 7448 & CSA Specification, Up To 1000 Volt. Individually Tested. CV steel, forged, oil-hardened.

Item No.	Inch	lbs.	pkg.
317 03	5/16	.16	1
317 04	11/32	.16	1
317 05	3/8	.16	1
317 07	7/16	.16	1
317 08	1/2	.16	1
317 09	9/16	.17	1
317 10	5/8	.19	1
317 12	11/16	.19	1
317 13	3/4	.21	1
317 14	13/16	.23	1
317 15	7/8	.27	1
317 16	15/16	.35	1
317 18	1	.33	1
317 20	1-1/8	.44	1
317 22	1-1/4	.58	1

*Sockets must be used with insulated ratchets & extensions



Individually Tested



 **1000Volt**

316 Insulated 1/2" Drive Sockets - Insulation According to VDE, DIN 7448 & CSA Specification, Up To 1000 Volt.

Item No.	mm	lbs.	pkg.
316 08	8	.15	1
316 09	9	.15	1
316 10	10	.16	1
316 11	11	.16	1
316 12	12	.16	1
316 13	13	.17	1
316 14	14	.17	1
316 15	15	.17	1
316 16	16	.19	1
316 17	17	.19	1
316 18	18	.20	1
316 19	19	.21	1
316 20	20	.25	1
316 21	21	.25	1
316 22	22	.28	1
316 23	23	.29	1
316 24	24	.30	1
316 26	26	.37	1
316 27	27	.41	1
316 28	28	.44	1
316 30	30	.51	1
316 32	32	.55	1

*Sockets must be used with insulated ratchets & extensions

Wiha Insulated 1/2" Sockets & Sets



 **1000Volt**

317 90 24 Piece Insulated 1/2" Drive Socket Set - Inch

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 317 90 Set includes the following:

	3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1" Sockets
lbs.	12858 1/2" x 125mm Extension Bar
11.41	12859 1/2" x 250mm Extension Bar
	12853 1/2" Ratchet - 260mm
	15000 Insulated Electrician's Knife - 50mm
	Slotted: 3.5, 4.5, 6.5mm & Phillips: 1, 2, 3
	32806 6.3" Long Nose Pliers
	32818 8.0" Combo Pliers
	32832 6.3" Diagonal Cutters

Each tool individually tested to 10,000 volts & certified to 1000 Volt ac or 1500 Volt dc



Metric

 **1000Volt**

316 91 24 Piece Insulated 1/2" Drive Socket Set - Metric

CV steel, forged, oil-hardened sockets. Insulated to EN/IEC 60900.

Item No. 316 91 Set includes the following:

	8, 9, 10, 12, 13, 14, 15, 17, 19, 22, 24mm Sockets
lbs.	12858 1/2" x 125mm Extension Bar
11.39	12859 1/2" x 250mm Extension Bar
	12853 1/2" Ratchet - 260mm
	15000 Insulated Electrician's Knife - 50mm
	Slotted: 3.5, 4.5, 6.5mm & Phillips: 1, 2, 3
	32806 6.3" Long Nose Pliers
	32818 8.0" Combo Pliers
	32832 6.3" Diagonal Cutters

Wiha Insulated 1/2" Socket accessories



 **1000Volt**

128 53 Insulated 1/2" Drive Ratchet, IEC/EN 60900 & CSA

Chrome-Vanadium steel. Reversible.

Item	OAL		OAL			
No.	Inch	mm	Inch	lbs.	pkg.	
128 53	1/2"	260	10.2	1.55	1	



 **1000Volt**

128 Insulated 1/2" Extension Bars, EN/IEC 60900 & CSA

Chrome-vanadium steel.

Item	OAL		OAL			
No.	Inch	mm	Inch	lbs.	pkg.	
128 58	1/2"	125	4.9	.45	1	
128 59	1/2"	250	9.8	.91	1	



 **1000Volt**

290 12 Insulated 1/2" Drive T-handle, With Insulated Handle

Insulation according to EN/IEC 60900 & CSA Specification, Up To 1000 Volt. Individually Tested. Blade VC steel, hardened.

Item		OAL	OAL		
No.	Inch	mm	Inch	lbs.	pkg.
290 12	1/2	200	7.9"	.68	1

Use & Care Guide For Insulated Tools:

Store tools to minimize risk of damage to insulation, always wear approved eye protection, inspect insulation prior to each use of any insulated tool. Use insulated tools where the ambient temperature is between -20 to +70° C. Have a qualified safety technician visually inspect insulation on tools annually for safe use.

WARNING!

Insulated Tools are intended to provide protection against accidental contact with charged energized circuits. For maximum safety we recommend de-energizing all circuits whenever possible before starting work on electrical apparatus or conductors. Always visually inspect insulation on tools before use, do not use tools if insulation shows signs of wear or damage to the insulated areas of the tool. Wear appropriate eye protection when using hand tools. Use NFPA70E certified insulated protective outer wear when appropriate.

Wiha Insulated Cable Cutters

For cutting solid aluminum & copper conductors



 **1000Volt**

119 50 Cable Cutter, With Insulated Handle

Insulation According to EN/IEC 60900, ASTM F-1505 & CSA Specification, Up To 1000 Volt. Individually Tested.

Blade alloyed tool steel. Induction hardened.

Item	OAL	OAL	Capacity			
No.	mm	Inch	mm	Inch	lbs.	pkg.
119 50	500	19.6	12	1/2"	3.0	1

For cutting multi strand aluminum & copper cables



 **1000Volt**

408 00 Large Capacity Cable Cutter, With Insulated Handle

Insulation According to EN/IEC 60900, ASTM F-1505 & CSA Specification, Up To 1000 Volt. Individually Tested.

Easy cutting blades, dropped forged, oil hardened. Cuts cable diameters up to 50mm. Not to be used on steel rods.

Item	OAL	OAL	Capacity			
No.	mm	Inch	mm	Inch	lbs.	pkg.
408 00	800	31.5	50	2"	8.0	1



 **1000Volt**

292 40 Waterpump Pliers, With Insulated Handle

Insulation According to EN/IEC 60900, DIN ISO 8976, ASTM F-1505 & CSA Specification, Up To 1000 Volt. Individually Tested.

Box joint. Chrome-vanadium steel, drop forged, oil hardened.

Item	OAL	OAL	Capacity			
No.	mm	Inch	mm	lbs.	pkg.	
292 40	240	9.5	7/8"	1.1	1	

Wiha Insulated TorqueControl Tools



1000Volt

Includes Certificate

285 Insulated TorqueVario-S, With Window Scale Insulation

up to 1000 Volt. EN/IEC 60900

EN ISO 6798, BS EN 26789, ASME B107.14M & CSA, +/- 6% Accuracy
Ergonomic multi-component handle, light and compact. Handle sizes proportioned to optimize torque range. Audible & perceptible click when torque setting has been attained. Includes Certificate

Item No.	Range	Inch lbs.	Increments	mm	lbs.	pkg.
285 14	7.5 - 20	.5 Inch lbs	126 - 131	.43	1	
285 16	10 - 50	2 Inch lbs	133 - 138	.40	1	
285 20	20 - 70	2 Inch lbs	137 - 142	.69	1	

Each TorqueVario handle has unique serial number and certificate of calibration



Slotted Tips Insulated Blades

287 Insulated Slotted Interchangeable Blades For TorqueVario-S

Slotted tip blades on narrow 5/32 Hex shafts. High alloy chrome-vanadium-molybdenum tool steel, hardened.

Item No.	mm	Inch	mm	lbs.	Nm	pkg.
287 01	3.0	.118	220	.07	0.6	1
287 03	3.5	.139	220	.07	1.1	1
287 05	4.0	.157	220	.07	2.5	1
287 07	5.5	.216	220	.07	3.8	1

These Insulated Blades work in Insulated handles only



Phillips Tips Insulated Blades

287 Insulated Phillips Interchangeable Blades For TorqueVario-S

Phillips tip blades on narrow 5/32 Hex shafts. High alloy chrome-vanadium-molybdenum tool steel, hardened.

Item No.	Size	mm	mm	lbs.	Nm	pkg.
287 10	0	220	4.0	.07	0.9	1
287 11	1	220	4.0	.07	3.8	1
287 12	2	220	4.0	.07	5.5	1

Wiha Multi-Bit Screwdrivers

Six Tools in One!



Tested to 10,000 Volts

380 Sets Multi-Bit Screwdriver Sets with Wiha Powerhandle,

cellulose-acetate, impact resistant. Snap-lock rotatable cap. Chambered bit holder equipped with transparent selector and 6 bits. 1/4" Bit holder, stainless steel. Shaft chrome-vanadium-molybdenum steel, hardened, chrome-plated. Packaged in clear blister package. Blade Length = 120mm (4.7") Overall Length = 230mm (9")

380 06 Slotted/Phillips Multi-Bit Screwdriver with Wiha Powerhandle and insulated shaft.

Set includes the following 1/4" bits:

Slotted Sizes: 5.5, 6.5mm lbs.

Phillips Sizes: 0, 1, 2, 3 .39

380 07 Slotted/Phillips/Square Multi-Bit Screwdriver with Wiha Powerhandle and insulated shaft.

Set includes the following 1/4" bits:

Slotted Sizes: 6.5, 8.0mm lbs.

Phillips Sizes: 1, 2 .41

Square Sizes: 1, 2

Insulation meets EN/IEC 60900

Holds 1/4" drive bits



1000Volt

326 50 Retaining Ring Bit Holding Screwdriver, With Wiha-SoftFinish® Handle Insulation According to VDE, ASTM F-1505-01 and EN/IEC 60900, NFPA70E & CSA, up to 1000 Volt.

Blade high alloy CVM steel, hardened, black finish. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component.

Item No.	Size	mm	Inch	mm	Inch	lbs.	pkg.
326 50	1/4"	60	2.4	164	6.5	.06	10

Wiha Insulated TorqueControl Tool Set In Belt Pack Pouch

NEW
From Wiha



287 90 7 Piece Insulated TorqueControl Set With Slotted & Phillips Blades Certified to EN ISO 6798, BS EN 26789, ASME B107.14M. Set includes Insulated multi-component adjustable TorqueVario-S handle, 6 blades & Torque adjustment tool. In Belt Pack pouch

Item No.		lbs.
287 90	Slotted: 3.5, 4.0, 5.5mm Phillips: #1, #2 28516 - Handle Range 10 - 50 Inch lbs.	.89

With Certificate of Calibration

Wiha Insulated T-handles

Insulation Test Standards:

Insulation according to EN/IEC 60900, ASTM F-1505-01, VDE 0682/part 201, DIN 7437, NFPA70E & CSA specification

Responds to OSHA's use specification 29 CFR1910

Insulation

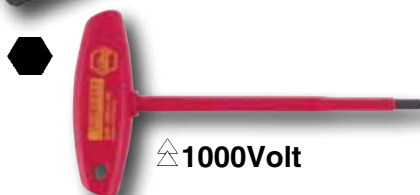
Molded directly onto blade for permanent bonding

Blade

CVM tool steel, hardened to average 58/60RC

Each tool individually tested to 10,000 volts and rated to 1000 Volt ac or 1500 Volt dc

 **1000V**



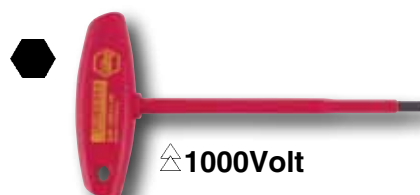
334 Inch T-handle, With Wiha-Molded Handle Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E & CSA,  up to 1000 Volt. Individually Tested. Blade CVM steel, hardened. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component.

Item No.							
	Inch	Inch	Inch	mm	lbs.	pkg.	
334 81	5/32	5.9	6.9	176	.09	10	
334 82	3/16	5.9	6.9	176	.15	10	
334 83	7/32	5.9	6.9	176	.19	10	
334 85	1/4	5.9	7.1	176	.20	10	
334 86	5/16	5.9	7.1	176	.26	10	
334 87	3/8	5.9	7.1	176	.44	10	



334 90 6 Piece Inch T-handle Hex Set

Item No.						
	Inch	mm	Inch	mm	lbs.	
334 90 334 81	5/32	6.9	334 85	1/4	7.1	1.66
334 82	3/16	6.9	334 86	5/16	7.1	
334 83	7/32	6.9	334 87	3/8	7.1	



334 Metric T-handle, With Wiha-Molded Handle Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E & CSA,  up to 1000 Volt. Individually Tested. Blade CVM steel, hardened. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component.

Item No.							
	mm	mm	Inch	mm	Inch	lbs.	pkg.
334 41	4.0	150	5.9	176	6.9	.09	10
334 43	5.0	150	5.9	182	7.1	.15	10
334 45	6.0	150	5.9	182	7.1	.18	10
334 47	8.0	150	5.9	182	7.1	.26	10



334 91 4 Piece Metric T-handle Hex Set

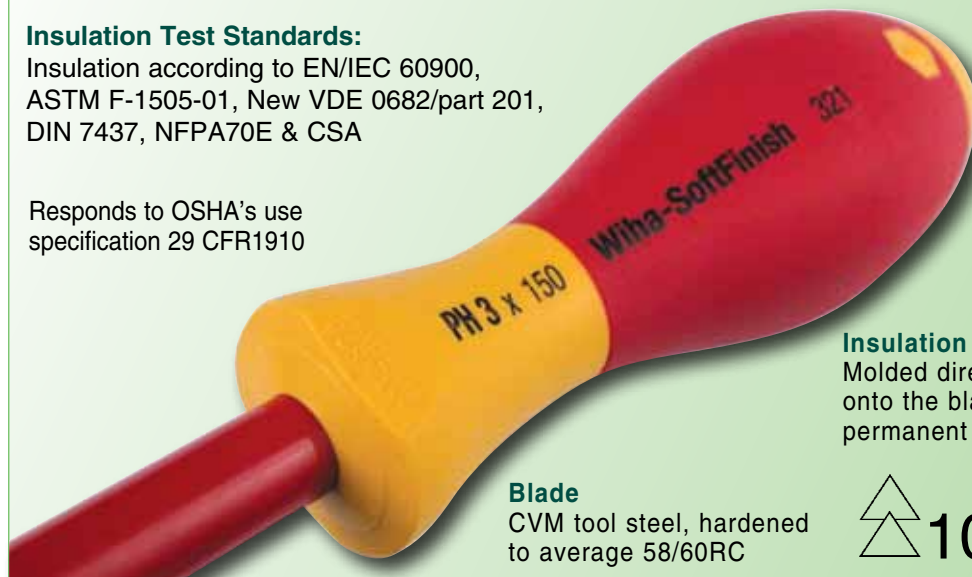
Item No.						
	mm	mm	mm	mm	.99 lbs.	
334 91 334 41	4.0	6.9	334 45	6.0	7.1	
334 43	5.0	7.1	334 47	8.0	7.1	

Wiha Insulated Screwdrivers with SoftFinish® Cushion Grip Handle

Insulation Test Standards:

Insulation according to EN/IEC 60900, ASTM F-1505-01, New VDE 0682/part 201, DIN 7437, NFPA70E & CSA

Responds to OSHA's use specification 29 CFR1910



Each tool individually tested to 10,000 volts and rated to 1000 Volt ac or 1500 Volt dc

SoftFinish® handle

solid molded core with soft outer cushion grip. 40% more torque than conventional handles

Insulation

Molded directly onto the blade for permanent bonding

Blade

CVM tool steel, hardened to average 58/60RC

1000V



page 23



1000Volt

320 Slotted Screwdriver, With Wiha-SoftFinish® Handle

Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E & CSA, up to 1000 Volt. Individually Tested. Blade high alloy CVM steel, hardened, black finish. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component, cushion grip.

Item	Slotted	Slotted	Slotted	Slotted	Slotted	Slotted	Slotted	Slotted
No.	mm	Inch	mm	Inch	mm	Inch	lbs.	pkg.
320 05	2.0	.078	60	3.0	164	6.5	.05	10
320 10	2.5	.098	75	3.0	179	7.1	.06	10
320 12	3.0	.118	100	4.0	204	8.0	.07	10
320 15	3.5	.139	100	4.0	204	8.0	.07	10
320 17	4.0	.157	100	4.0	211	8.3	.12	10
320 23	4.5	.177	100	4.0	211	8.3	.12	10
320 24	4.5	.177	125	5.0	236	9.3	.12	10
320 27	4.5	.177	150	6.0	261	10.2	.14	10
320 25	4.5	.177	175	7.0	286	11.2	.13	10
320 28	4.5	.177	200	8.0	311	12.3	.15	10
320 31	5.5	.216	125	5.0	243	9.5	.15	10
320 26	5.5	.216	175	7.0	293	11.5	.21	10
320 34	6.0	.236	150	6.0	268	10.6	.21	10
320 39	6.5	.255	150	6.0	268	10.6	.21	10
320 42	8.0	.315	175	7.0	299	11.8	.34	10
320 45	10.0	.393	200	8.0	318	12.5	.39	10



1000Volt

321 Phillips Screwdriver, With Wiha-SoftFinish® Handle

Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E & CSA, up to 1000 Volt. Individually Tested. Blade high alloy CVM steel, hardened, black finish. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component, cushion grip.

Item	Phillips	Phillips	Phillips	Phillips	Phillips	Phillips	Phillips	Phillips
No.	Size	mm	Inch	mm	Inch	lbs.	pkg.	
321 00	0	60	2.4	164	6.5	.06	10	
321 01	1	80	3.0	191	7.5	.12	10	
321 02	2	100	4.0	218	8.6	.20	10	
321 03	3	150	6.0	268	10.6	.34	10	
321 04	4	200	8.0	318	12.5	.39	10	

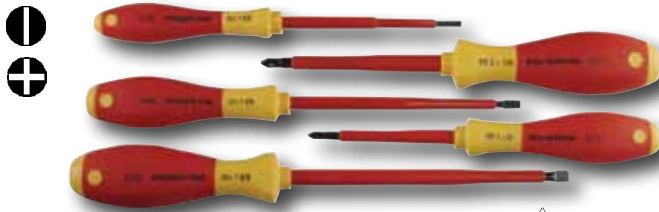


1000Volt

320 90 4 Piece Slotted & Phillips Set

Item	Slotted	Slotted	Slotted	Phillips	Phillips	Phillips
No.	mm	mm	mm	Size	mm	.76 lbs.
320 90	320 15	3.5	100	0.6	321 01	1 80
	320 24	4.5	125	1.0	321 02	2 100

Wiha Insulated Screwdriver Sets


 1000Volt

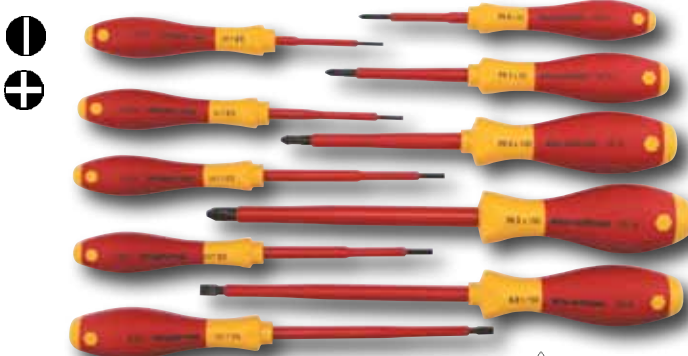
320 91 5 Piece Slotted & Phillips Set

Item No.								
		mm	mm	mm		Size	mm	lbs.
320 91	320 12	3.0	100	0.6	321 01	1	80	1.31
	320 24	4.5	125	1.0	321 02	2	100	
	320 39	6.5	150	1.2				


 1000Volt

320 92 6 Piece Slotted & Phillips Set

Item No.										
		mm	mm	mm	Size		mm	lbs.		
320 92	320 15	3.5	100	0.6	321 01	1	80	1.31		
	320 24	4.5	125	1.0	321 02	2	100			
	320 39	6.5	150	1.2	321 03	3	150			


 1000Volt

320 93 10 Piece Slotted & Phillips Set

10 Piece Slotted & Phillips Set							
Item							
No.		mm	mm	Size	mm		lbs.
320 93	320 05	2.0	60	321 00	0	60	1.63
	320 10	2.5	75	321 01	1	80	
	320 12	3.0	100	321 02	2	100	
	320 15	3.5	100	321 03	3	150	
	320 24	4.5	125				
	320 39	6.5	150				


 1000Volt

320 94 13 Piece Slotted & Phillips Set

Item							
No.		mm	mm	Size		mm	lbs.
320 94	320 05	2.0	60	321 00	0	60	2.3
	320 10	2.5	75	321 01	1	80	
	320 12	3.0	100	321 02	2	100	
	320 15	3.5	100	321 03	3	150	
	320 24	4.5	125				
	320 26	5.5	175				
	320 39	6.5	150				
	320 42	8.0	175				
	320 45	10.0	200				

 1000Volt


321 90 15 Piece Slotted, Phillips & Inch Nut Drivers Set

Item											
No.		Size	mm		mm	mm				lbs.	
321 90	321 01	1	80		320 42	8.0	175			5.9	
	321 02	2	100		320 39	6.5	150				
	321 03	3	150		320 24	4.5	125				
					320 15	3.5	100				
	322 64	1/4	5.0		320 12	3.0	100				
	322 67	5/16	5.0		320 10	2.5	75				
	322 70	3/8	5.0		320 05	2.0	60				
	322 73	7/16	5.0								
	322 76	1/2	5.0								

Wiha Insulated Nut Drivers



△ 1000Volt

322 Nut Driver, With Wiha-SoftFinish® Handle Insulation

According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E & CSA, △ up to 1000 Volt. Individually Tested. Blade CVM steel, hardened. Insulation molded directly onto blade. Deep drawn 1" socket. Wiha-SoftFinish® handle, multi-component.

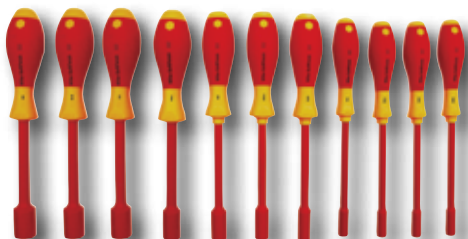
Item	○	—	—	—	—	—
No.	mm	mm	mm	Inch	lbs.	pkg.
322 06	4.0	125	236	9.3	.15	10
322 09	5.0	125	236	9.3	.16	10
322 12	5.5	125	236	9.3	.16	10
322 15	6.0	125	236	9.3	.16	10
322 18	7.0	125	243	9.6	.25	10
322 21	8.0	125	243	9.6	.25	10
322 24	9.0	125	243	9.6	.25	10
322 27	10.0	125	243	9.6	.27	10
322 30	11.0	125	243	9.6	.37	10
322 33	12.0	125	243	9.6	.38	10
322 36	13.0	125	243	9.6	.39	10



△ 1000Volt

322 Nut Driver, With Wiha-SoftFinish® Handle Inch sizes.

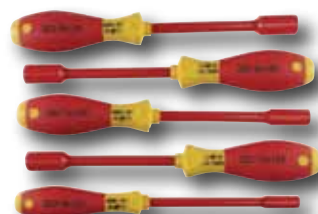
Item	○	—	—	—	—	—
No.	Inch	Inch	mm	Inch	lbs.	pkg.
322 55	5/32	5.0	236	9.3	.15	10
322 58	3/16	5.0	236	9.3	.15	10
322 61	7/32	5.0	236	9.3	.16	10
322 64	1/4	5.0	243	9.5	.24	10
322 67	5/16	5.0	243	9.5	.25	10
322 68	11/32	5.0	242	9.5	.26	10
322 70	3/8	5.0	243	9.5	.26	10
322 73	7/16	5.0	243	9.5	.36	10
322 76	1/2	5.0	243	9.5	.39	10
322 78	9/16	5.0	243	9.5	.39	10
322 80	5/8	5.0	243	9.5	.41	10



△ 1000Volt

322 96 11 Piece Nut Driver Set - Inch Sizes

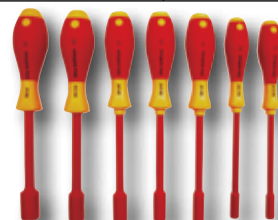
Item	○	—	—	○	—	—
No.	Inch	Inch		Inch	Inch	lbs.
322 96	322 55	5/32	5.0	322 70	3/8	5.0
	322 58	3/16	5.0	322 73	7/16	5.0
	322 61	7/32	5.0	322 76	1/2	5.0
	322 64	1/4	5.0	322 76	9/16	5.0
	322 67	5/16	5.0	322 80	5/8	5.0
	322 68	11/32	5.0			



△ 1000Volt

322 91 5 Piece Nut Driver Set - Metric Sizes

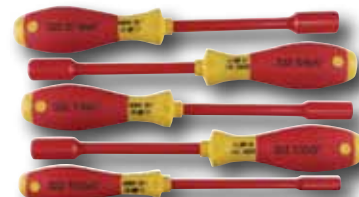
Item	○	—	—	○	—	—
No.	mm	mm		mm	mm	lbs.
322 91	322 15	6.0	125	322 24	9.0	125
	322 18	7.0	125	322 27	10.0	125
	322 21	8.0	125			



△ 1000Volt

322 93 7 Piece Nut Driver Set - Metric Sizes

Item	○	—	—	○	—	—
No.	mm	mm		mm	mm	lbs.
322 93	322 09	5.0	125	322 21	8.0	125
	322 12	5.5	125	322 27	10.0	125
	322 15	6.0	125	322 36	13.0	125
	322 18	7.0	125			



△ 1000Volt

322 92 5 Piece Nut Driver Set - Inch Sizes

Item	○	—	—	○	—	—
No.	Inch	Inch		Inch	Inch	lbs.
322 92	322 61	7/32	5.0	322 70	3/8	5.0
	322 64	1/4	5.0	322 76	1/2	5.0
	322 67	5/16	5.0			



△ 1000Volt

322 94 7 Piece Nut Driver Set - Inch Sizes

Item	○	—	—	○	—	—
No.	Inch	Inch		Inch	Inch	lbs.
322 94	322 58	3/16	5.0	322 70	3/8	5.0
	322 61	7/32	5.0	322 73	7/16	5.0
	322 64	1/4	5.0	322 76	1/2	5.0
	322 67	5/16	5.0			

Wiha Insulated TORX® Screwdrivers

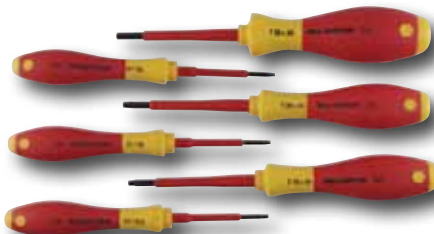


△ 1000Volt



325 TORX® Screwdriver, With Wiha-SoftFinish® Handle
Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E and CSA, △ up to 1000 Volt. Individually Tested. Blade high alloy cvm steel, hardened, black finish. Insulation molded directly onto blade.

Item							
No.	Size	mm	Inch	mm	Inch	lbs.	pkg.
325 05	T5	60	2.4	164	6.5	.06	10
325 11	T6	60	2.4	164	6.5	.06	10
325 16	T7	60	2.4	164	6.5	.06	10
325 21	T8	60	2.4	164	6.5	.06	10
325 26	T9	60	2.4	164	6.5	.06	10
325 31	T10	60	2.4	164	6.5	.06	10
325 36	T15	80	3.0	191	7.5	.12	10
325 41	T20	80	3.0	191	7.5	.12	10
325 46	T25	80	3.0	198	7.8	.17	10
325 51	T27	100	4.0	218	8.6	.20	10
325 56	T30	100	4.0	218	8.6	.20	10
325 61	T40	150	6.0	274	10.8	.30	10



△ 1000Volt

325 90 6 Piece TORX® Set

Item						
No.	Size	mm	Size	mm	lbs.	
325 90	325 21 T8	60	325 36 T15	80	.83	
	325 26 T9	60	325 41 T20	80		
	325 31 T10	60	325 46 T25	80		



△ 1000Volt

325 92 10 Piece TORX® Set

Item						
No.	Size	mm	Size	mm	lbs.	
325 92	325 11 T6	60	325 36 T15	80	1.2	
	325 16 T7	60	325 41 T20	80		
	325 21 T8	60	325 46 T25	80		
	325 26 T9	60	325 51 T27	100		
	325 31 T10	60	325 56 T30	100		

Insulated Terminal Block Xeno Screwdrivers

Combination Slotted/Phillips Terminal Block Drivers



△ 1000Volt



Slotted & Phillips



307 Combination Terminal Block Xeno Screwdriver, With Wiha SoftFinish® Handle. Insulation According to ASTM F-1505-01,

VDE, 0682/part 201, EN/IEC 60900, NFPA70E & CSA specification. Individually Tested. Blade CVM steel, hardened, black finish. Insulation molded directly onto blade. Wiha-SoftFinish® handle, multi-component, cushion grip. For combination Slotted/Phillips head terminal screws.

Item						
No.	Size	mm	mm	Inch	lbs.	pkg.
307 00	1	80	191	7.5	1.23	10
307 01	2	100	218	8.6	1.23	10

Wiha Insulated Square Tip Screwdrivers



△ 1000Volt

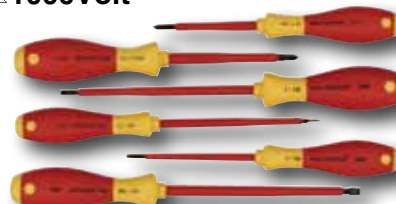


358 Square Tip Screwdriver, With Wiha-SoftFinish® Handle

Insulation According to ASTM F-1505-01, New VDE Specification 0682/part 201 and EN/IEC 60900, NFPA70E and CSA, △ up to 1000 Volt. Individually Tested. Blade high alloy CVM steel, hardened, black finish. Insulation molded directly onto blade.

Item						
No.	Size	mm	Inch	mm	Inch	lbs.
358 11	1	100	4.0	210	8.2	.12
358 12	2	150	6.0	268	10.5	.19

△ 1000Volt



358 90 6 Piece Insulated Slotted, Phillips & Square Screwdrivers

Item						
No.	Size	mm	mm	mm	mm	lbs.
358 90	321 01	1	80	320 24	4.5	125
	321 02	2	100	320 39	6.5	150
	358 11	1	100			
	358 12	2	150			



Wiha Insulated "BitFlip" Sets

NEW
From Wiha

Wiha Insulated Belt Pack Pouch Sets



8-in-1 Bit Sets

Tested to 10,000Volts

Insulated



380 16 Insulated BitFlip With Slotted/Phillips/Square Bits

Wiha cushion grip handle and insulated shaft. Tested to 10,000 volts.

Set includes the following 1/4" bits:

↓ ⚡	Slotted Sizes: 4.5, 6.5mm	↔
⊕	Phillips Sizes: 0, 1, 2, 3	lbs.
⊞	Square Sizes: 1, 2	.45



8-in-1 Bit Sets

Tested to 10,000Volts

Insulated



380 17 Insulated BitFlip With Slotted/Phillips/TORX® Bits

Wiha cushion grip handle and insulated shaft. Tested to 10,000 volts.

Set includes the following 1/4" bits:

↓ ⚡	Slotted Sizes: 4.5, 6.5mm	↔
⊕	Phillips Sizes: 1, 2	lbs.
⊞	TORX® Sizes: T10, T15, T20, T25	.45



8-in-1 Bit Sets

Tested to 10,000Volts

Insulated



380 18 Insulated BitFlip With Slotted/Phillips Bits

Wiha cushion grip handle and insulated shaft. Tested to 10,000 volts.

Set includes the following 1/4" bits:

↓ ⚡	Slotted Sizes: 4.5, 5.5, 6.5, 8.0mm	↔
⊕	Phillips Sizes: 0, 1, 2, 3	.45

Use & Care Guide For Insulated Tools:

Store tools to minimize risk of damage to insulation, always wear approved eye protection, inspect insulation prior to each use of any insulated tool. Use insulated tools where the ambient temperature is between -20 to +70° C. Have a qualified safety technician visually inspect insulation on tools annually for safe use.

WARNING!

Insulated Tools are intended to provide protection against accidental contact with charged energized circuits. For maximum safety we recommend de-energizing all circuits whenever possible before starting work on electrical apparatus or conductors. Always visually inspect insulation on tools before use, do not use tools if insulation shows signs of wear or damage to the insulated areas of the tool. Wear appropriate eye protection when using hand tools. Use NFPA70E certified insulated protective outer wear when appropriate.



△ 1000Volt

328 71 3 Piece Insulated Pliers/Cutters & Multi-Bit Set In Belt Pack Pouch

Tools meet EN/IEC, ASTM, VDE, NFPA70E & CSA standards. Pliers chrome finish for long lasting corrosion protection. Soft grip ergo designed handle body, safety slip guard. Insulated multi-bit screwdriver includes Slotted, Phillips & Square bits.

Item No. Pliers/Cutters & Multi-Bit Set

328 71 6.3" / 160mm Diagonal Cutter
8.0" / 200mm Long Nose

Set includes Bit Holder and the following bits:

Slotted: 4.5, 6.5mm • Phillips: 1, 2 • Square: 1, 2
↔ lbs. 1.67



△ 1000Volt

328 72 5 Piece Insulated Pliers/Cutters & Screwdrivers In Belt Pack Pouch

Tools meet EN/IEC, ASTM, VDE, NFPA70E & CSA standards. Pliers chrome finish for long lasting corrosion protection. Soft grip ergo designed handle body, safety slip guard. Insulated cushion grip drivers, multi-component. Blade CVM tool steel, hardened.

Item No. Insulated Pliers/Cutters & Screwdrivers

328 72 6.3" / 160mm Diagonal Cutter
8.0" / 200mm Long Nose

Insulated Screwdrivers:

Slotted: 3.0, 4.5mm • Phillips: 2
↔ lbs. 1.77

△ 1000Volt

328 73 3 Piece Insulated Pliers/Cutters In Belt Pack Pouch

Tools meet EN/IEC, ASTM, VDE, NFPA70E & CSA standards. Pliers chrome finish for long lasting corrosion protection. Soft grip ergo designed handle body, safety slip guard.

Item No. Insulated Pliers & Cutters

328 73 6.3" / 160mm Diagonal Cutter
8.0" / 200mm Long Nose
8.0" / 200mm Combination Pliers

↔ lbs. 2.07



Wiha Insulated Tool Sets

NEW
From Wiha

48 Piece Set!



1000Volt

328 74 48 Piece Insulated Tool Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested. Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome/nickel plated, mirror-polished. Cushion Grip Insulated handles.

328 74 48 Piece Insulated Tool Set

Item# 32874	Set Includes:	Weight lbs. 19.3
32806 - 6.3" Long Nose Pliers	32832 - 6.3" Side Cutters	
32808 - 8.0" Long Nose Pliers	32838 - 8.0" High Leverage Cutters	
32814 - 6.3" Combination Pliers	32860 - 6.3" Stripping Pliers	
32821 - 9.0" Combo Pliers/Crimpers	76208 - 8" Adjustable Wrench	
32261 - Ins Nut Driver 7/32"	32005 - Insulated Slotted 2.0	
32264 - Ins Nut Driver 1/4"	32010 - Insulated Slotted 2.5	
32267 - Ins Nut Driver 5/16"	32012 - Insulated Slotted 3.0	
32270 - Ins Nut Driver 3/8"	32015 - Insulated Slotted 3.5	
32273 - Ins Nut Driver 7/16"	32017 - Insulated Slotted 4.0	
32276 - Ins Nut Driver 1/2"	32024 - Insulated Slotted 4.5	
33481 - Ins T-handle Hex 5/32"	32026 - Insulated Slotted 5.5	
33482 - Ins T-handle Hex 3/16"	32034 - Insulated Slotted 6.0	
33483 - Ins T-handle Hex 7/32"	32039 - Insulated Slotted 6.5	
33485 - Ins T-handle Hex 1/4"	32042 - Insulated Slotted 8.0	
33486 - Ins T-handle Hex 5/16"	32100 - Insulated Phillips #0	
33487 - Ins T-handle Hex 3/8"	32101 - Insulated Phillips #1	
32521 - Insulated Torx T8	32102 - Insulated Phillips #2	
32526 - Insulated Torx T9	32103 - Insulated Phillips #3	
32531 - Insulated Torx T10	35811 - Insulated Square #1	
32536 - Insulated Torx T15	35812 - Insulated Square #2	
32541 - Insulated Torx T20	30700 - Ins Sl/Ph Terminal #1	
32546 - Insulated Torx T25	30701 - Ins Sl/Ph Terminal #2	
32551 - Insulated Torx T27	15000 - Ins Cable Knife 50mm	
32556 - Insulated Torx T30	61662 - 2 Meter Ruler In/MM	

Use & Care Guide For Insulated Tools:

Store tools to minimize risk of damage to insulation, always wear approved eye protection, inspect insulation prior to each use of any insulated tool. Use insulated tools where the ambient temperature is between -20 to +70° C. Have a qualified safety technician visually inspect insulation on tools annually for safe use.

SoftFinish Cushion Grip Handles

NEW
From Wiha

80 Piece Set!



1000Volt

328 77 80 Piece Insulated Master Electrician's Set

Item# 32877	Set Includes:	Weight lbs. 26.9
32806 - 6.3" Long Nose Pliers	32832 - 6.3" Diagonal Cutters	
32807 - 6.3" Bent Nose Pliers	32838 - 8.0" High Leverage Cutters	
32808 - 8.0" Long Nose Pliers	32846 - 8.3" Cable Cutters	
32810 - 6.3" Long Flat Nose Pliers	32860 - 6.3" Stripping Pliers	
32821 - 9.0" Combo Pliers/Crimpers	76208 - 8" Adjustable Wrench	
32005 - Insulated Slotted 2.0	32261 - Ins Nut Driver 7/32"	
32010 - Insulated Slotted 2.5	32264 - Ins Nut Driver 1/4"	
32012 - Insulated Slotted 3.0	32267 - Ins Nut Driver 5/16"	
32015 - Insulated Slotted 3.5	32270 - Ins Nut Driver 3/8"	
32017 - Insulated Slotted 4.0	32273 - Ins Nut Driver 7/16"	
32024 - Insulated Slotted 4.5	32209 - Ins Nut Driver 5.0mm	
32026 - Insulated Slotted 5.5	32212 - Ins Nut Driver 5.5mm	
32034 - Insulated Slotted 6.0	32215 - Ins Nut Driver 6.0mm	
32039 - Insulated Slotted 6.5	32218 - Ins Nut Driver 7.0mm	
32042 - Insulated Slotted 8.0	32221 - Ins Nut Driver 8.0mm	
32045 - Insulated Slotted 10.0	32227 - Ins Nut Driver 10.0mm	
32100 - Insulated Phillips #0	32236 - Ins Nut Driver 13.0mm	
32101 - Insulated Phillips #1	33481 - Ins T-handle Hex 5/32"	
32102 - Insulated Phillips #2	33482 - Ins T-handle Hex 3/16"	
32103 - Insulated Phillips #3	33483 - Ins T-handle Hex 7/32"	
30700 - Ins Sl/Ph Terminal #1	33485 - Ins T-handle Hex 1/4"	
30701 - Ins Sl/Ph Terminal #2	33486 - Ins T-handle Hex 5/16"	
32511 - Insulated Torx T6	33487 - Ins T-handle Hex 3/8"	
32516 - Insulated Torx T7	33441 - Ins T-handle Hex 4.0mm	
32521 - Insulated Torx T8	33443 - Ins T-handle Hex 5.0mm	
32526 - Insulated Torx T9	33445 - Ins T-handle Hex 6.0mm	
32531 - Insulated Torx T10	33447 - Ins T-handle Hex 8.0mm	
32536 - Insulated Torx T15	13659 - Insulated L-key 10mm	
32541 - Insulated Torx T20	13664 - Insulated L-key 1/2"	
32546 - Insulated Torx T25	15000 - Ins Cable Knife 50mm	
32556 - Insulated Torx T30	61662 - 2 Meter Ruler In/MM	
35811 - Insulated Square #1	12852 - Insulated Ratchet 3/8" Dr.	
35812 - Insulated Square #2	12856 - Insulated 4.9" Extension	
31433 - Insulated Socket 1/2"	31513 - Insulated Socket 13mm	
31434 - Insulated Socket 9/16"	31514 - Insulated Socket 14mm	
31435 - Insulated Socket 5/8"	31515 - Insulated Socket 15mm	
31436 - Insulated Socket 11/16"	31517 - Insulated Socket 17mm	
31437 - Insulated Socket 3/4"	31519 - Insulated Socket 19mm	
31438 - Insulated Socket 13/16"	31520 - Insulated Socket 20mm	
31439 - Insulated Socket 7/8"	31522 - Insulated Socket 22mm	

Wiha Insulated Sets - Comfort Grip Handles



 1000Volt

328 79 25 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested.

Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome/nickel plated, mirror-polished.

328 79 25 Piece Master Electrician's Insulated Set

Item# 32879 Set Includes:	 lbs. 11.82
32808 - 8" Long Nose	32860 - 6.3" Stripping Pliers
32820 - 9" Combination Pliers	61662 - Inch & Metric Folding Ruler
32838 - 8" High Leverage Cutters	15000 - 8.5" Insulated Knife
Slotted: 3.0, 4.5, 6.0mm	Phillips: #1, #2
Square: #1, #2	Terminal Block Driver: #1, #2
Inch Nut Driver: 1/4, 5/16, 11/32, 3/8, 7/16, 1/2"	
Metric Nut Driver: 7.0, 8.0, 10.0, 13.0mm	



 1000Volt

328 96 31 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome/nickel plated, mirror-polished. Set includes 6ft. Fiber glass folding ruler.

328 96 31 Pc. Master Electrician's Insulated Set

Item# 32896 Set Includes:	 lbs. 12.75
32806 - 6.3" Long Nose Pliers	32832 - 6.3" Side Cutters
32808 - 8" Long Nose	32838 - 8" High Leverage Cutters
32816 - 7" Linemans	32860 - 6.3" Stripping Pliers
32820 - 9" Combination Pliers	32870 - 6.3" Round Nose Pliers
Slotted: 2.0, 2.5, 3.0, 3.5, 4.5, 5.5, 6.5, 8.0, 10.0mm	
Phillips: #0, #1, #2, #3	
Inch Nut Driver: 5/32, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2, 9/16"	

2 Pc. Insulated Pliers and Cutters



328 83 2 Piece Insulated Pliers Set In Pouch

Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5746 Cutting edges additionally induction hardened to approx. 60HRC. Special CV tool steel forgings, Chrome finish. Two component soft grip ergonomic handles. 2 pc. set includes:

Item# 32883 Set Includes:

32806 Long Nose Pliers With Cutters - 160mm	lbs. .94
32832 Diagonal Cutters - 160mm	



328 85 2 Piece Insulated Pliers Set In Pouch

Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5746 Cutting edges additionally induction hardened to approx. 60HRC. Special CV tool steel forgings, Chrome finish. Two component soft grip ergonomic handles. 2 pc. set includes:

Item# 32885 Set Includes:

32806 Long Nose Pliers With Cutters - 160mm	lbs. 1.06
32838 High Leverage Diagonal Cutters - 200mm	

WARNING!

Insulated Tools are intended to provide protection against accidental contact with charged energized circuits. For maximum safety we recommend de-energizing all circuits whenever possible before starting work on electrical apparatus or conductors. Always visually inspect insulation on tools before use, do not use tools if insulation shows signs of wear or damage to the insulated areas of the tool. Wear appropriate eye protection when using hand tools. Use NFPA70E certified insulated protective outer wear when appropriate.

Wiha Insulated Pliers with High Visibility Comfort Grip Handle

 **1000Volt**


- Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished.

328 89 8 Piece Pliers & Cutters Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested.

Item# 32889	Set Includes:	⚡ lbs. 4.53
32806 - 6.3" Long Nose Pliers	32808 - 8" Long Nose Pliers	
32814 - 6.3" Lineman's Pliers	32832 - 6.3" Diagonal Cutters	
32820 - 9" Lineman's Pliers	32838 - 8" High Lev. Cutters	
32860 - 6.3" Wire Stripping Pliers	15000 - Electrician's Knife	

 **1000Volt**


- Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished.
- In zipper carry case

328 91 10 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested.

Item# 32891	Set Includes:	⚡ lbs. 5.44
32818 - 8" Combination Pliers	32808 - 8" Long Nose	
32838 - 8" Side Cutters	32848 - 6.75" Cable Cutters	
32860 - 6.3" Universal Wire Stripper		
32101 - Insulated Phillips #1	32024 - Insulated Slotted 4.5	
32102 - Insulated Phillips #2	32039 - Insulated Slotted 6.5	
32103 - Insulated Phillips #3		

 **1000Volt**


- Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished.
- In zipper carry case

328 95 14 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested.

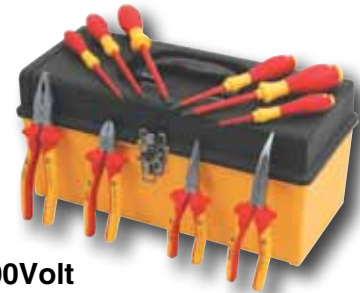
328 95 14 Piece Pliers & Screwdriver Set. In Zipper Case	
Item# 32895	Set Includes: ⚡ lbs. 6.50
32808 - 8" Long Nose	32832 - 6.3" Side Cutters
32820 - 9" Combination Pliers	32838 - 8" High Leverage Cutters
32860 - 6.3" Stripping Pliers	32010 - Insulated Slotted 2.5
32101 - Insulated Phillips #1	32012 - Insulated Slotted 3.0
32102 - Insulated Phillips #2	32015 - Insulated Slotted 3.5
32103 - Insulated Phillips #3	32024 - Insulated Slotted 4.5
32005 - Insulated Slotted 2.0	32039 - Insulated Slotted 6.5



 **1000Volt**

328 88 11 Piece Pliers & Screwdriver Set. In Canvas Pouch

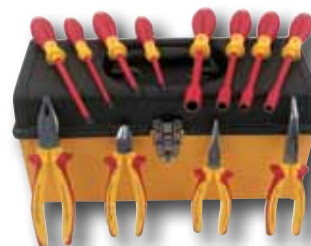
Item# 32888	Set Includes:	⚡ lbs. 3.58
32806 - 6.3" Long Nose	32832 - 6.3" Side Cutters	
32818 - 8" Combination Pliers	32860 - 6.3" Stripping Pliers	
32010 - Insulated Slotted 2.5	32100 - Insulated Phillips #0	
32015 - Insulated Slotted 3.5	32101 - Insulated Phillips #1	
32023 - Insulated Slotted 4.5	32102 - Insulated Phillips #2	
32034 - Insulated Slotted 6.0		



 **1000Volt**

328 92 10 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested.

Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished. In molded tool box

Item# 32892	Set Includes:	⚡ lbs. 6.64
32804 - 8" Bent Nose	32818 - 8" Combination Pliers	
32806 - 6.3" Long Nose	32832 - 6.3" Side Cutters	
32100 - Insulated Phillips #0	32012 - Insulated Slotted 3.0	
32101 - Insulated Phillips #1	32024 - Insulated Slotted 4.5	
32102 - Insulated Phillips #2	32039 - Insulated Slotted 6.5	



 **1000Volt**

328 94 12 Piece Pliers & Screwdriver Set. In Molded Tool Box

Item# 32894	Set Includes:	⚡ lbs. 8.60
32804 - 8" Bent Nose	32818 - 8" Combination Pliers	
32806 - 6.3" Long Nose	32832 - 6.3" Side Cutters	
32024 - Insulated Slotted 4.5	32264 - Insulated Nut Driver 1/4"	
32039 - Insulated Slotted 6.5	32267 - Insulated Nut Driver 5/16"	
32101 - Insulated Phillips #1	32270 - Insulated Nut Driver 3/8"	
32102 - Insulated Phillips #2	32276 - Insulated Nut Driver 1/2"	

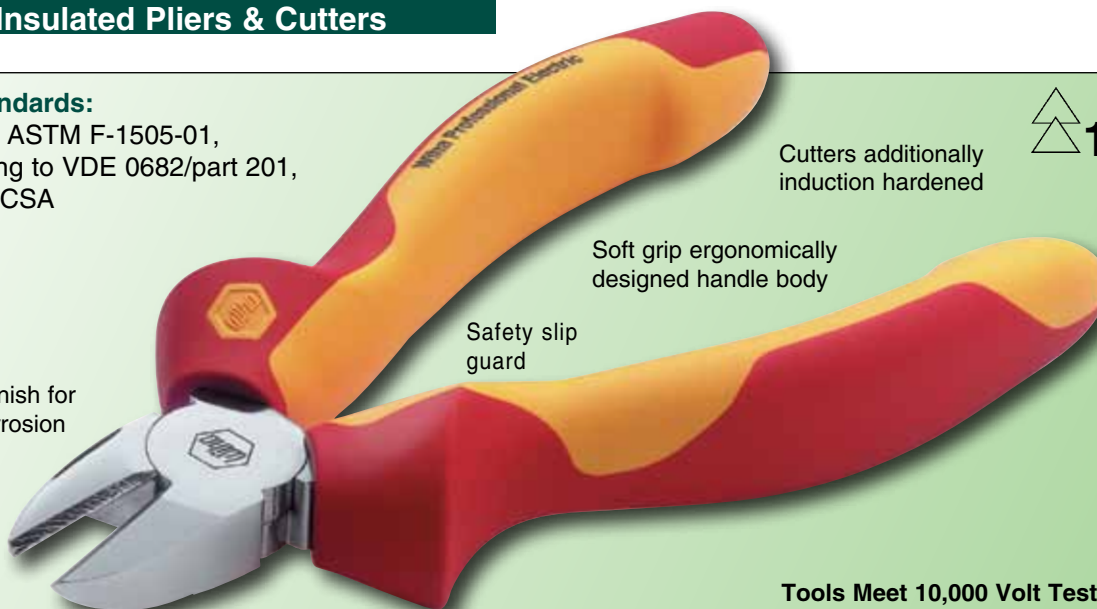


Wiha Insulated Pliers & Cutters

Insulation Standards:

EN/IEC 60900, ASTM F-1505-01,
and or According to VDE 0682/part 201,
NFPA70E and CSA

Hard chrome finish for
long lasting corrosion
protection



 **1000V**

Cutters additionally
induction hardened

Soft grip ergonomically
designed handle body

Safety slip
guard

**Tools Meet 10,000 Volt Test Standards
Rated to 1000 Volt ac or 1500 Volt dc**

Insulated Linemans Pliers With Crimpers

NEW
From Wiha

5-In-1 Lineman's Pliers

 **1000volt**



With Lower Crimping Jaw

328 21 Insulated Lineman's Pliers "5-In-1" Professional Design Insulation According to EN/IEC, ASTM, NFPA70E & CSA,

 **up to 1000 volt. Individually Tested.**

Deep cut radius conduit jaws for non-slip handling. Sure grip knurled & cross hatched flat jaw for non-slip gripping. Extra long induction hardened precision matched cutting edges. Lower crimping jaw accepts most standard non-insulated electrical connectors. Large head with square anvil surface on each side. Made from premium CV tool steel forgings. Two component cushion grips for best user comfort.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg. wt.
328 21 Z01122006	225	9.0	#4	1 .88

Insulated High Leverage Combination Pliers

Lineman's

 **1000volt**



With Lower Serrated Pulling Jaws

328 20 High Leverage Combination Pliers. Insulation According to EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested. DIN ISO 5746

Extra long cutting edge for flat and round cables. Serrated upper jaws and lower pulling jaws. Cutting edges additionally induction hardened to approx. 64HRC. C 60 Special tool steel. Use for gripping, pulling & holding as well as cutting wires and cables ranging in hardness from soft to extremely hard. Two component soft grip ergonomic handles.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg. wt.
328 20 Z02022506	225	9.0	#4	1 .86

Insulated Combination Lineman's Pliers

 **1000volt**



328 Combination Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5746 Extra long cutting edge for flat & round cables. Serrated jaws. Cutting edges additionally induction hardened to approx. 60HRC. Special CV tool steel forgings, Chrome finish. Use for gripping and holding as well as cutting soft and hard wires and cables. Two component soft grip ergonomic handles.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg. wt.
328 14 Z01016006	160	6.3	#10	1 .53
328 16 Z01018006	180	7.0	#9	1 .58
328 18 Z01020006	200	8.0	#8	1 .72

Insulated Diagonal Cutters



1000volt

Insulated High Leverage Diagonal Cutters



1000volt

Insulated Electrician's Diagonal Cutters



1000volt

Insulated Cable Cutters



1000volt

Insulated Serrated Edge Cable Cutters



Available 8/15/10

1000volt

328 Diagonal Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested. DIN ISO 5749 Low wear lap joint, riveted and able to withstand high levels of load. Lightweight action, clean cutting. Long term cutting is achieved through additional inductive hardening to approx. 60 HRC. Special tool steel hardened and tempered. For soft & medium hard wire. 32832 & 32834 for soft, hard & piano wire.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
328 30	Z12014006	140	5.5	#6	1	.47
328 32	Z12016006	160	6.3	#6	1	.49
328 34	Z12018006	180	7.0	#6	1	.62

328 High Leverage Diagonal Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested. DIN ISO 5749 Semi-circular. Low wear lap joint, riveted and able to withstand high levels of load. Lightweight action, clean cutting. Long term cutting is achieved through additional inductive hardening to approx. 64 HRC. C 60 special tool steel hardened and tempered to high quality. For soft, hard and piano wire, lay-on joint, optimized power transmission.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
328 35	Z16016006	160	6.3	#6	1	.54
328 36	Z16018006	180	7.0	#5	1	.57
328 38	Z16020006	200	8.0	#4	1	.70

328 61 Diagonal Cutters W/Stripping Holes. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested.

Drop-forged from special tool steel, cutters additionally induction hardened (approx. 60 HRC), chrome-nickel plated, mirror-polished. Ergonomic comfort grip with slip guard. Holes in the cutting edge for stripping copper wire of Ø 1.5 and 2.5. Strips AWG sizes #10 & #14.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
328 61	Z14016006	160	6.3	#6	1	.55

328 Cable Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, up to 1000 volt. Individually Tested. Drop-forged from durable CV steel, cutters additionally induction hardened, chrome & nickel plated, Mirror-polished. For copper and aluminum cables (not for steel wires), integrated release spring, one-hand locking, adjustable joint, anti-squeeze feature.

Item No.		mm	Inch	Min mm	Max mm	Pkg.	wt.
328 46	Z50023006	210	8.3	17	40	1	.89
328 48	Z50017006	170	6.75	10	60	1	.67

328 Serrated Edge Cable Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, up to 1000 Volt. Individually Tested. Light, clean cutting ground precision cutting edges. Durable cutting is achieved through additional inductive hardening to approx. 62 HRC. Special tool steel, hardened & tempered. For cutting of copper & aluminum cables without crushing, also suitable for stripping.

Item No.		mm	Inch	Ø	mm2	Pkg.	lbs.
328 26	Z50023006	160	6.3	16	50	1	.42
328 28	Z50017006	200	8.0	20	60	1	.67

Wiha Insulated Pliers & Cutters

Insulated Long Nose Pliers



328 Long Nose Pliers With Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, $\triangle$ up to 1000 volt. Individually Tested. Drop-forged from special tool steel, cutters additionally induction hardened (approx. 60 HRC), chrome-nickel plated, mirror-polished, ergonomic comfort grip with slip guard, half-round jaws, serrated gripping surface.

Item		↔	↔	Cutting Capacity		
No.		mm	Inch	Copper AWG	Pkg.	wt.
328 06	Z05016006	160	6.3	#10	1	.32
328 08	Z05020006	200	8.0	#8	1	.42

Insulated Bent Nose Pliers

Angled 40°



328 Bent Nose Pliers With Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, $\triangle$ up to 1000 volt. Individually Tested.

Drop-forged from special tool steel, cutters additionally induction hardened (approx. 60 HRC), chrome-nickel plated, mirror-polished. Ergonomic comfort grip with slip guard. Half-round jaws, serrated gripping surface, nose bent 40°.

Item		↔	↔	Cutting Capacity		
No.		mm	Inch	Copper AWG	Pkg.	wt.
328 04	Z05120006	200	8.0	#8	1	.43
328 07	Z05116006	160	6.3	#10	1	.32

Round Nose Pliers



328 70 Round Nose Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, $\triangle$ up to 1000 volt. Individually Tested. Drop-forged from special tool steel, individually induction hardened, chrome and nickel plated, mirror-polished. Ergonomic comfort grip with slip guard. Serrated jaws.

Item		↔	↔			
No.		mm	Inch		Pkg.	wt.
328 70	Z09016006	160	6.3		1	.34

Insulated Long Flat Nose Pliers



328 10 Long Flat Nose Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, $\triangle$ up to 1000 volt. Individually Tested. DIN ISO 5745

Extra long head. Serrated Jaws are induction hardened. Special CV tool steel forgings, Chrome finish. Two component Soft Grip handles. Use for Gripping and right-angle bending of wires and sheet metal parts.

Item		↔	↔			
No.		mm	Inch		Pkg.	wt.
328 10	Z07016006	160	6.3		1	.39

Insulated Stripping Pliers



328 60 Stripping Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA,

$\triangle$ up to 1000 volt. Individually Tested. Heavy duty forged with induction hardened cutting edges for even stripping of insulation. Drop-forged from special tool steel, chrome and nickel plated, mirror-polished. Ergonomic comfort grip with slip guard. Spring and adjusting screw, for stripping up to Ø 5mm/#4 Awg.

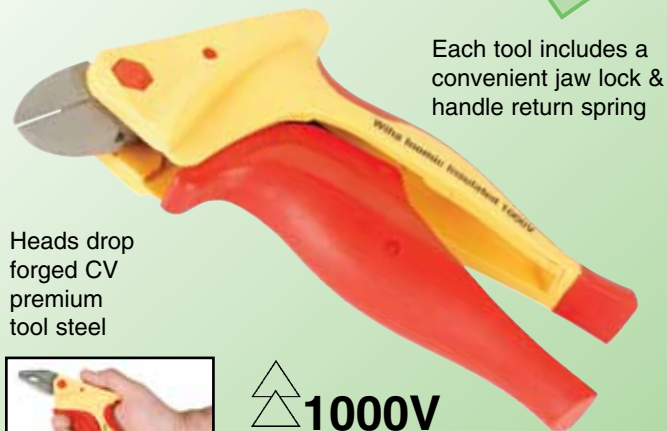
Item		↔	↔	Stripping Capacity		
No.		mm	Inch	Copper AWG	Pkg.	wt.
328 60	Z55016006	160	6.3	#4 - #28	1	.50

Wiha Inomic 1000Volt Insulated Pliers

Insulation Standards:

EN/IEC 60900, ASTM F-1505-01,
and or According to NFPA70E & CSA

NEW
From Wiha



Each tool includes a
convenient jaw lock &
handle return spring

Heads drop
forged CV
premium
tool steel



1000V

Tools Meet 10,000 Volt Test Standards
Rated to 1000 Volt ac or 1500 Volt dc



Three
Holsters
Included

328 59 3 Piece Insulated Inomic Pliers & Cutters Set

Insulation meets ASTM, EN/IEC, NFPA, CSA, ISO specifications.

Award winning ergonomic design with head mounted at 23° angle to grip for reduced user fatigue.

Item# 328 59 Set Includes:  wt. 1.45

32850 - Combo Pliers

32854 - Diagonal Cutters

32852 - Long Nose Pliers

91230 - Inomic Holster (Includes 3)

912 30 Inomic Canvas Holster

Item	Width	Height		
No.	Size	Size	lbs.	pkg.
912 30	4.0 x	4.5	.05	1

Holds
any
Inomic
Pliers



Insulated Inomic Combo Pliers

1000volt



Insulated Inomic Long Nose Pliers

1000volt



Insulated Inomic Diagonal Cutters

1000volt



328 Inomic Combo Pliers. Insulation According to EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5749 Precision machined forged head. Induction hardened for longest tool life. Cross hatched flat jaw & deep cut radius jaws for secure gripping of the workpiece. Cutting edges are matched for precise cutting action. Award winning ergonomic design with head mounted at 23° angle to grip for reduced user fatigue. Palm side of grip has molded soft panel for added comfort in prolonged use.

Item			Cutting Capacity		
No.	mm	Inch	Copper AWG	Pkg.	wt.
328 50	Z01016180	180	7.0	#6	1 .46

328 Inomic Long Nose Pliers. Insulation According to EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5749 Precision machined forged head. Induction hardened for longest tool life. Long serrated jaw for secure gripping of the workpiece. Cutting edges are matched for precise cutting action. Award winning ergonomic design with head mounted at 23° angle to grip for reduced user fatigue. Palm side of grip has molded soft panel for added comfort in prolonged use.

Item			Cutting Capacity		
No.	mm	Inch	Copper AWG	Pkg.	wt.
328 52	Z01016160	160	6.3	#6	1 .43

328 Inomic Diagonal Cutters. Insulation According to EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested. DIN ISO 5749

Precision machined forged head. Induction hardened for longest tool life. Cutting edges are matched for precise cutting action. Award winning ergonomic design with cutters mounted at 23° angle to grip for reduced user fatigue. Palm side of grip has molded soft panel for added comfort in prolonged use.

Item			Cutting Capacity		
No.	mm	Inch	Copper AWG	Pkg.	wt.
328 54	Z01016160	160	6.3	#6	1 .41



protturn

1000V

Tools meet ASTM, IEC, VDE,
EN, NFPA & CSA standards

10,000 Volt tested
1000 Volt Rated



Hardened tool steel

Value priced tools individually tested
for insulation integrity made in Taiwan
to Wiha Protturn specifications

Insulated Lineman's Pliers

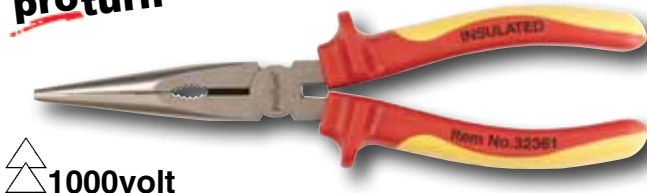
protturn


1000volt

323 46 Protturn Insulated Lineman's Pliers. Insulation According to VDE 0682/part 201, DIN 7437, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, 1000 volt rated. Individually Tested. DIN ISO 5745 Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. Protturn ergo soft grip handles for maximum comfort.

Item	↔	↔	⏏	⏏
No.	mm	Inch	Pkg.	wt.
323 46	200	8.0	1	.97

Insulated Long Nose Pliers

protturn


1000volt

323 Protturn Insulated Long Nose Pliers. Insulation According to VDE 0682/part 201, DIN 7437, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, 1000 volt rated. Individually Tested. DIN ISO 5745 Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. Protturn ergo soft grip handles for maximum comfort.

Item	↔	↔	⏏	⏏
No.	mm	Inch	Pkg.	wt.
323 48	160	6.3	1	.32
323 41	200	8.0	1	.42

Insulated Diagonal Cutters

protturn


1000volt

323 44 Protturn Insulated Diagonal Cutters. Insulation According to VDE 0682/part 201, DIN 7437, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, 1000 volt rated. Individually Tested. DIN ISO 5745 Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. Protturn ergo soft grip handles for maximum comfort.

Item	↔	↔	⏏	⏏
No.	mm	Inch	Pkg.	wt.
323 44	160	6.3	1	.60

Insulated High Leverage Pliers

proturn



 1000volt

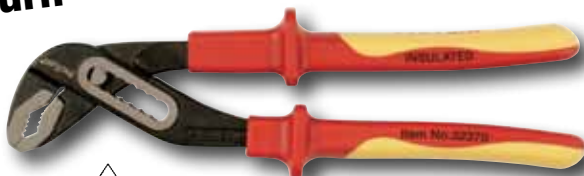
323 47 Protturn Insulated High Leverage Pliers. Insulation According to VDE 0682/part 201, DIN 7437, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, 1000 volt. Individually Tested.

DIN ISO 5745 Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. Protturn ergo soft grip handles for maximum comfort.

Item	↔	↔		
No.	mm	Inch	Pkg.	wt.
323 47	200	8.0	1	.80

Insulated Water Pump Pliers

proturn



 1000volt

323 40 Protturn Insulated Water Pump Pliers. Insulation According to VDE 0682/part 201, DIN 7437, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, 1000 volt rated. Individually Tested. DIN ISO 5745

Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. Protturn ergo soft grip handles for maximum comfort.

Item	↔	↔		
No.	mm	Inch	Pkg.	wt.
323 40	250	9.8	1	.80

proturn



 1000volt

323 91 4 Piece Protturn Insulated Pliers & Cutters Set

Insulation Standards According To EN/IEC 60900, ASTM F-1505-01, DIN/ISO, NFPA70E & CSA Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror polished. In roll up pouch.

Item No. 323 91 Set includes the following:

	32346 - 8" Lineman's Pliers With Cutters
lbs. 3.64	32341 - 8" Long Nose Pliers With Cutters
	32344 - 6.3" Diagonal Cutters
	32340 - 10" Water Pump Pliers

*Pliers & Cutters are made in Taiwan

WARNING!

Insulated Tools are intended to provide protection against accidental contact with charged energized circuits. For maximum safety we recommend de-energizing all circuits whenever possible before starting work on electrical apparatus or conductors. Always visually inspect insulation on tools before use, do not use tools if insulation shows signs of wear or damage to the insulated areas of the tool. Wear appropriate eye protection when using hand tools. Use NFPA70E certified insulated protective outer wear when appropriate.

Use & Care Guide For Insulated Tools:

Store tools to minimize risk of damage to insulation, always wear approved eye protection, Inspect insulation prior to each use of any insulated tool. Use insulated tools where the ambient temperature is between -20 to +70° C. Have a qualified safety technician visually inspect insulation on tools annually for safe use.



Wiha Protturn Insulated Tool Sets

protturn



⚡ 1000Volt

Pliers/Cutters
Made in Taiwan
Screwdrivers Made
in Germany

323 95 8 Pc. Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, DIN EN 60900, EN/IEC 60900, ASTM F-1505-01, NFPA70E, ⚡ up to 1000 volt. Individually Tested. In Roll Out Pouch

Item# 32395 Set Includes: ⚡ lbs. 4.13

32346 - 8.0" Combination Pliers 32344 - 6.3" Diagonal Cutters

32348 - 6.3" Long Nose 32340 - 10.0" Water Pump Pliers

Insulated Slotted 3.0(1/8") Insulated Phillips #1

Insulated Slotted 6.5(1/4") Insulated Phillips #2

protturn



NEW
From Wiha

Pliers/Cutters
Made in Taiwan
Screwdrivers Made
in Germany

⚡ 1000Volt

323 97 8 Pc. Protturn Insulated Screwdriver Set. Insulation According to VDE 0682/part 201, DIN EN 60900, EN/IEC 60900, ASTM F-1505-01, NFPA70E, ⚡ up to 1000 volt. Individually Tested. In roll up pouch

Item# 32397 Set Includes: ⚡ lbs. 4.87

32346 - 8.0" Combination Pliers 32344 - 6.3" Diagonal Cutters

32348 - 6.3" Long Nose 32340 - 10.0" Water Pump Pliers

32341 - 8.0" Long Nose 32347 - 8.0" High Leverage Cutter

38006 - Multi-Bit Driver w/Slotted: 5.5, 6.5mm & Phillips: #0, #1, #2, #3
15000 - 50mm Insulated Electrician's Cable Stripping Knife

protturn



Pliers Soft grip ergo designed handle body, safety slip guard. Insulated cushion grip drivers, multi-component.



NEW
From Wiha

⚡ 1000Volt

323 98 5 Pc. Insulated Pliers/Cutters & Drivers In Belt Pack Pouch. Insulation According to VDE 0682/part 201, DIN EN 60900, EN/IEC 60900, ASTM F-1505-01, NFPA70E, ⚡ up to 1000 volt.

Item No. Insulated Pliers/Cutters & Screwdrivers

323 98 6.3"/160mm Diagonal Cutter • 8.0"/200mm Combo Pliers

6.3"/160mm Long Nose

Insulated Divers: Slotted: 4.5mm • Phillips: #2

⚡ lbs. 2.21



protturn

⚡ 1000Volt

Pliers/Cutters Made in Taiwan
Screwdrivers Made in Germany

323 90 11 Pc. Protturn Pliers & Driver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, ⚡ up to 1000 volt. Individually Tested. In molded tool box

Item# 32390 Set Includes: ⚡ lbs. 7.5

8.0" Linemans Pliers 6.3" Long Nose Pliers W/Cutter

8.0" Long Nose Pliers W/Cutter 6.3" Diagonal Cutter

8.0" High Leverage Cutter

Insulated Phillips #0 Insulated Slotted 3.0mm(1/8")

Insulated Phillips #1 Insulated Slotted 4.5mm(3/16")

Insulated Phillips #2 Insulated Slotted 6.5mm(1/4")



protturn

All Tools Made
in Germany

⚡ 1000Volt

328 99 7 Pc. Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, ⚡ up to 1000 volt. Individually Tested. Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished. In molded tool box

Item# 32899 Set Includes: ⚡ lbs. 5.39

32816 - 7.0" Combination Pliers 32830 - 5.5" Diagonal Cutters

32806 - 6.3" Long Nose

Insulated Slotted 3.0(1/8") Insulated Phillips #1

Insulated Slotted 4.5(3/16") Insulated Phillips #2



protturn

Pliers/Cutters Made in Taiwan
Screwdrivers Made in Germany

⚡ 1000Volt

323 96 13 Pc. Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA, ⚡ up to 1000 volt. Individually Tested. In molded tool box

Item# 32396 Set Includes: ⚡ lbs. 8.41

32356 - 8.0" Combination Pliers 32364 - 6.3" Diagonal Cutters

32358 - 6.3" Long Nose 32367 - 8.0" High Leverage Pliers

32361 - 8.0" Long Nose Pliers 32370 - 10.0" Water Pump Pliers

Insulated Slotted 3.0(1/8") Insulated Phillips #0

Insulated Slotted 4.5(3/16") Insulated Phillips #1

Insulated Slotted 6.5(1/4") Insulated Phillips #2

15000 - Insulated Electrician's Knife

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12855	9		21208	6		31433	10		31712	12		32273	18		32870	26	
12856	11		21210	6		31434	10		31713	12		32276	18		32871	20	
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