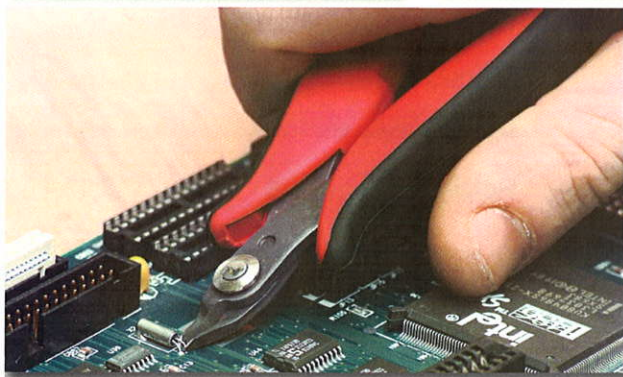
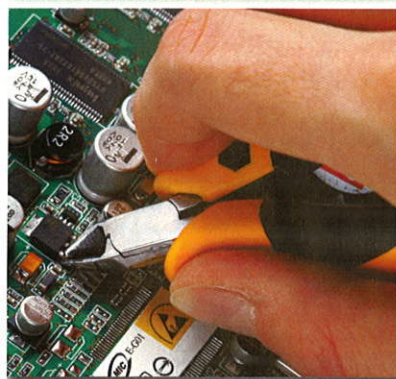
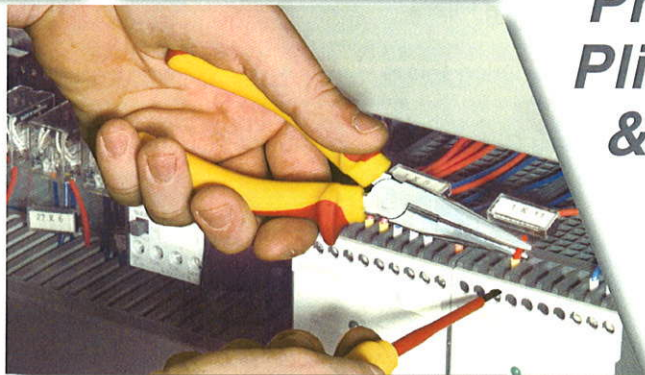
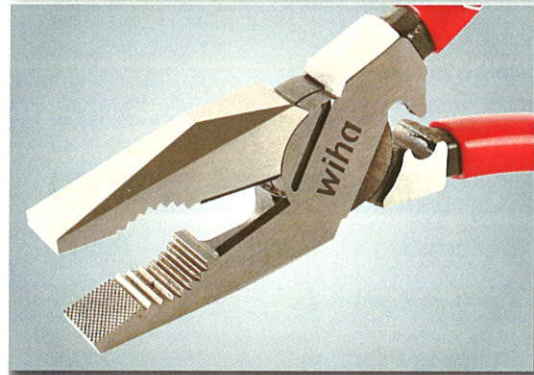


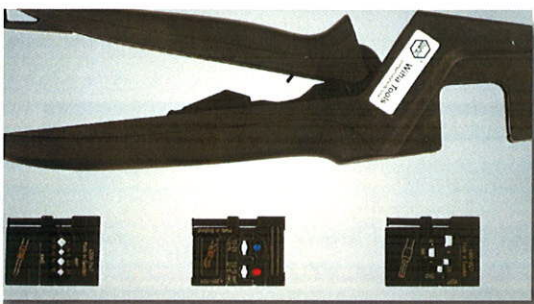


wiha
Premium Tools

***Professional
Pliers/Cutters
& Crimpers***



Innovations that work



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Wiha Insulated Pliers & Cutters

Insulation Standards:

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

Chrome finish for long lasting corrosion protection



Cutters additionally induction hardened

1000V

Safety slip guard

Soft grip ergonomically designed handle body

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

Insulated Lineman's Pliers With Crimpers

1000volt

5-in-1 Lineman's Pliers



With lower crimping jaw

32821 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 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.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32821	Z01122006	225	9.0	#4	1	.88

Insulated Combination Lineman's Pliers

Serrated jaws

1000volt



328 Combination Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, **up to 1000 Volt. Individually Tested.** DIN ISO 5746 Extra long cutting edge for flat & round cables. 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.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32814	Z01016006	160	6.3	#10	1	.53
32816	Z01018006	180	7.0	#9	1	.58
32818	Z01020006	200	8.0	#8	1	.72

Insulated High Leverage Combination Pliers

1000volt



Lineman's

32820 High Leverage Combination Pliers. Insulation According to EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, **up to 1000 Volt. Individually Tested.** DIN ISO 5746 Extra long cutting edge for flat and round cables. 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.	lbs.
32820	Z02022506	225	9.0	#4	1	.86

Insulated Crimping Pliers



NEW
From Wiha



32841 Insulated Crimping Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, **up to 1000 Volt. Individually Tested.**

Semi-circular profiles for secure connection between end sleeve and conductor. Long life is achieved through additional induction hardening to 64HRC. CV 60 special tool steel hardened & tempered.

Item No.		mm	Inch	mm ²	AWG	Pkg.	lbs.
32841		180	7.0	0.25-2.5	6-30	1	.57

Insulated Electrician's Diagonal Cutters



△ 1000volt

Insulated Diagonal Cutters



△ 1000volt

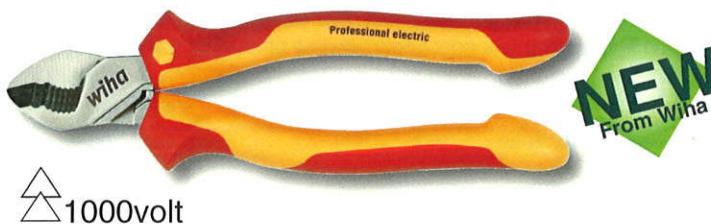
Insulated High Leverage Diagonal Cutters



△ 1000volt

New dynamic joint provides
40% easier cuts and
significantly longer tool life

Insulated Serrated Edge Cable Cutters



△ 1000volt

Insulated Stripping Pliers



△ 1000volt

32861 Diagonal Cutters W/Stripping Holes. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, △ up to 1000 Volt. Individually Tested.

Drop-forged from special tool steel, cutters additionally induction hardened (approx. 60HRC), 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.	lbs.
32861	Z14016006	160	6.3	#6	1	.55

328 Diagonal Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and 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. 60HRC. 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.	lbs.
32830	Z12014006	140	5.5	#6	1	.47
32832	Z12016006	160	6.3	#6	1	.49
32834	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 and 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. 64HRC. 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.	lbs.
32835	Z16016006	160	6.3	#6	1	.64
32836	Z16018006	180	7.0	#5	1	.67
32838	Z16020006	200	8.0	#4	1	.80

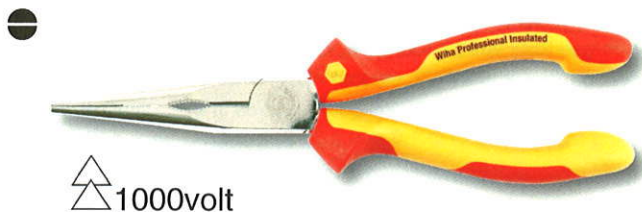
328 Serrated Edge Cable Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, △ up to 1000 Volt. Individually Tested. Light, clean cutting ground precision cutting edges. Durable cutting is achieved through additional inductive hardening to approx. 62HRC.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

Item No.		mm	Inch	Ø	mm2	Pkg.	lbs.
32826	Z50023006	160	6.3	16	50	1	.42
32828	Z50017006	200	8.0	20	60	1	.67

32860 Stripping Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, △ 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 & nickel plated, mirror-polished. Ergo comfort grip with slip guard. Spring & adjusting screw, for stripping up to Ø 5mm/#4 Awg.

Item No.		mm	Inch	Stripping Capacity Copper AWG	Pkg.	lbs.
32860	Z55016006	160	6.3	#4 - #28	1	.50

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, Δ up to 1000 Volt. Individually Tested. Drop-forged from special tool steel, cutters additionally induction hardened (approx. 60HRC), chrome-nickel plated, mirror-polished, ergonomic comfort grip with slip guard, half-round jaws, serrated gripping surface.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32806	Z05016006	160	6.3	#10	1	.32
32808	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 and CSA, Δ up to 1000 Volt. Individually Tested.

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

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32804	Z05120006	200	8.0	#8	1	.43
32807	Z05116006	160	6.3	#10	1	.32

Round Nose Pliers



32870 Round Nose Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, Δ 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.	lbs.
32870	Z09016006	160	6.3	1	.34

Insulated Long Flat Nose Pliers



32810 Long Flat Nose Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, Δ 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.	lbs.
32810	Z07016006	160	6.3	1	.39

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.

Insulated Stripping Pliers

NEW
From Wiha

1000Volt

10250 Insulated Stripping Pliers. Insulation According to EN/IEC 60900, DIN ISO 8976, ASTM F-1505 & CSA Specification.

Individually Tested. Wide long head with ridged gripping surface, shears blade and firm wire stripping stations. Wire stripping stations 0.81 / 1.0 / 1.3 / 1.6 / 2.0 / 2.59mm, AWG 20 / 18 / 16 / 14 / 12 / 10.

Item No.	mm	Inch	Ø	AWG	Pkg.	lbs.
10250	160	6.3"	0.81-2.59	20-10	5	.26

Insulated End Cutters

NEW
From Wiha

For cutting solid aluminum, copper & medium hard wires

1000Volt

29250 End Cutters, With Insulated Handle. Insulation According to EN/IEC 60900, DIN ISO 8976, ASTM F-1505 & CSA Specification. **Individually Tested.** Blade alloyed tool steel. Induction hardened.

Item No.	OAL	OAL	Capacity	lbs.	pkg.
	mm	Inch	Inch		
29250	250	10.0"	7/8"	1.1	1

Wiha Insulated Waterpump Pliers



1000Volt

29240 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 No.	OAL	OAL	Capacity	lbs.	pkg.
	mm	Inch	Inch		
29240	240	9.5"	7/8"	1.1	1

Wiha Canvas Pliers Holster

- Canvas holster with belt clip and belt loop
- Security pliers strap
- Screwdriver holder in the front

91256 Pliers Canvas Holster

Item No.	Width	Height	lbs.	pkg.	Each
	Size	Size			
91256	3.5 x	6.75	.15	1	\$5.98



Wiha Insulated Belt Pack Pouch Sets

NEW
From Wiha

1000Volt



32871 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
32871	6.3" / 160mm Diagonal Cutters 8.0" / 200mm Long Nose Pliers Set Includes Bit Holder & The Following Bits: Slotted: 4.5, 6.5mm Phillips: 1, 2 Square: 1, 2
lbs.	1.67

NEW
From Wiha

1000Volt



32873 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.	Pliers & Cutters
32873	6.3" / 160mm Diagonal Cutters 8.0" / 200mm Long Nose Pliers 8.0" / 200mm Combination Pliers
lbs.	2.07

NEW
From Wiha

1000Volt



32872 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.	Pliers/Cutters & Screwdrivers
32872	6.3" / 160mm Diagonal Cutters 8.0" / 200mm Long Nose Pliers Insulated Screwdrivers: Slotted: 3.0, 4.5mm Phillips: 2
lbs.	1.77



Wiha Insulated Pliers and Cutters Sets



1000volt

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

- In zipper carry case

32891 10 Piece Pliers & Screwdriver Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, up to 1000 volt. Individually Tested.

Item# 32891 Set Includes:

lbs. 5.44

32818 - 8.0" Combination Pliers

32808 - 8.0" Long Nose

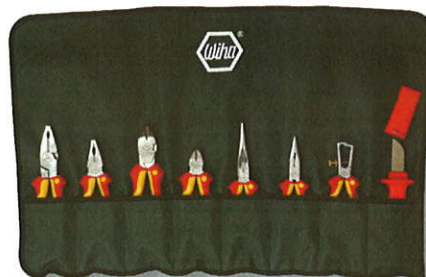
32838 - 8.0" Side Cutters

32848 - 6.75" Cable Cutters

32860 - 6.3" Universal Wire Stripper

Insulated Phillips #1, #2, #3

Insulated Slotted 4.5, 6.5mm



1000volt

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

32889 8 Piece Pliers & Cutters Set. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA, up to 1000 volt. Individually Tested.

Item# 32889 Set Includes:

lbs. 4.53

32806 - 6.3" Long Nose Pliers

32808 - 8.0" Long Nose Pliers

32814 - 6.3" Lineman's Pliers

32832 - 6.3" Diagonal Cutters

32820 - 9.0" Lineman's Pliers

32838 - 8.0" High Lev. Cutters

32860 - 6.3" Wire Stripping Pliers

15000 - Electrician's Knife

Wiha Inomic 1000Volt Insulated Pliers

Insulation Standards:

EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA

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



#32850



#32852



#32854

1000volt

32850 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 work piece. 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 No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32850 Z01016180	180	7.0	#6	1	.46

32852 Inomic Long Nose Pliers

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32852 Z01016160	160	6.3	#6	1	.43

32854 Inomic Diagonal Cutters

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32854 Z01016160	160	6.3	#6	1	.41



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

Each tool includes a convenient jaw lock & handle return spring

Heads drop forged CV premium tool steel

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

1000V

32859 3 Pc. Insulated Inomic Pliers/Cutters Set 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# 32859 Set Includes:

lbs. 1.45

32850 - Combo Pliers

32854 - Diagonal Cutters

32852 - Long Nose Pliers

91230 - Inomic Holster (Includes 3)



Three Holsters Included

91230 Inomic Canvas Holster

Item No.	Width Size	Height Size	lbs.	pkg.
91230	4.0	x 4.5	.05	1

Holds any Inomic Pliers



Wiha 1000Volt Insulated Adjustable Wrenches

Insulation Standards:

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

Etched on scale for
presetting size



Slip guard handle for
added protection

Double covered
insulation red over yellow

NEW
From Wiha

1000V

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

Wiha Insulated 8" Adjustable Wrench

1000V



76208 Insulated 8" Adjustable Wrench - Insulation According To ASTM, EN/IEC, NFPA, CSA and ISO Specification. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	Capacity pkg.
76208	8.0	200	1"	.7	1

Wiha Insulated 10" Adjustable Wrench

1000V



76210 Insulated 10" Adjustable Wrench - Insulation According To ASTM, EN/IEC, NFPA, CSA and ISO Specification. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	Capacity pkg.
76210	10.0	250	1-1/4"	1.4	1

Wiha Insulated 12" Adjustable Wrench

1000V



76212 Insulated 12" Adjustable Wrench - Insulation According To ASTM, EN/IEC, NFPA, CSA and ISO Specification. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	Capacity pkg.
76212	12.0	300	1-1/2"	1.9	1

Wiha Insulated 15" Adjustable Wrench

1000V



76215 Insulated 15" Adjustable Wrench - Insulation According To ASTM, EN/IEC, NFPA, CSA and ISO Specification. Etched on scale for pre-setting size. Slip guard handle for added protection.

Item No.	OAL Inch	OAL mm	Capacity Opening	Capacity lbs.	Capacity pkg.
76215	15.0	380	1-11/16"	2.8	1

Wiha Insulated Adjustable Wrench Set

1000V



76290 3 Piece Insulated Adjustable Wrenches

Insulation meets ASTM, EN/IEC, NFPA, CSA, ISO specifications. Insulation rated to 1000Volts or 10,000Volts tested. Slip guard handle for added protection. Double covered insulation handle. Etched on scale for presetting size.

Item# 76290 Set Includes:	Capacity lbs. 4.15
76208 - 8" OAL	76212 - 12" OAL
76210 - 10" OAL	

Insulated Industrial Pliers & Cutters

10,000 Volt tested
1000 Volt Rated

Induction hardened
jaws and cutters
to 60 HRC

Industrial
brushed finish

Two component ergo
cushion grip handles

New dynamic joint
provides 40% easier
cuts and significantly
longer tool life

 **1000V**

NEW
From Wiha



Insulated Lineman's Pliers With Crimpers

NEW
From Wiha



Long life high performance
dynamic 60/40 joint

 **1000volt**

32917 Insulated Industrial Lineman's Pliers "5-In-1" Professional Design Insulation According to EN/IEC, ASTM, NFPA70E & CSA,  up to 1000 volt. Individually Tested.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
32917	225	9.0	#4	1	.98

Insulated Long Nose Pliers With Cutters

NEW
From Wiha

 **1000volt**

329 Insulated Industrial Long Nose Pliers With Cutters. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E & CSA,  up to 1000 volt. Individually Tested.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
32926	160	6.3	#10	1	.36
32923	200	8.0	#8	1	.46

Insulated Diagonal Cutters

NEW
From Wiha



Long life high performance
dynamic 60/40 joint

 **1000volt**

329 Insulated Industrial 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

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
32933	160	6.3	#6	1	.64
32929	200	8.0	#6	1	.80

Insulated Combo Pliers With Dynamic Joint

NEW
From Wiha



Long life high performance
dynamic 60/40 joint

 **1000volt**

32930 Insulated Industrial 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

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	wt.
32930	200	8.0	#4	1	.92

Insulated Heavy Duty Cable Cutters

NEW
From Wiha

 **1000volt**

32927 Insulated Industrial 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.

Item No.	mm	Inch	Ø	mm2	Pkg.	lbs.
32927	200	8.0	20	60	1	.78

Insulated Stripping Pliers

NEW
From Wiha

 **1000volt**

32947 Insulated Industrial Stripping 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

Item No.	mm	Inch	Stripping Capacity Copper AWG	Pkg.	wt.
32947	160	6.3	#4 - #28	1	.46

Insulated Crimpers

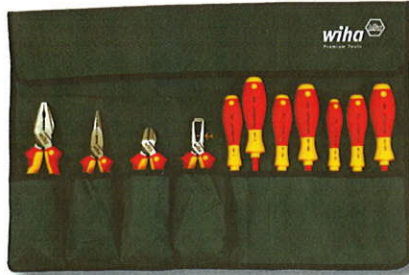
NEW
From Wiha

 **1000volt**

32945 Insulated Industrial Crimping Pliers. Insulation According to VDE 0682/part 201, EN/IEC 60900, ASTM F-1505-01, NFPA70E and CSA,  up to 1000 Volt. Individually Tested.

Item No.	mm	Inch	mm2	AWG	Pkg.	wt.
32945	180	7.0	0.25-2.5	6-30	1	.64

Wiha Insulated Industrial Tool Sets

In Roll
Out
Pouch

NEW
From Wiha

1000Volt

32986 11 Pc. Pliers/Cutters & 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.

Item# 32986 Set Includes: lbs. 3.62
32926 - 6.3" Long Nose Pliers 32933 - 6.3" Diagonal Cutters
32930 - 8.0" Combination Pliers 32947 - 6.3" Stripping Pliers

Insulated Slotted: 3.0, 4.5, 5.5mm

Insulated Phillips: #1, #2 Insulated Square: #1, #2

In Roll
Out
Pouch

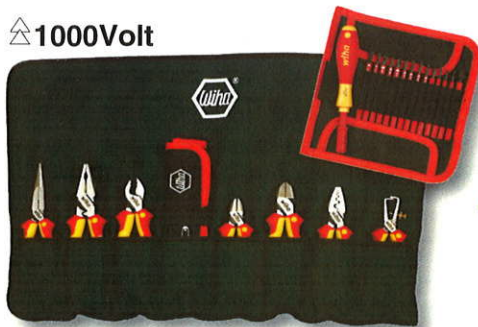
NEW
From Wiha

1000Volt

32987 8 Pc. Pliers & Cutters 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# 32987 Set Includes: lbs. 5.52
32926 - 6.3" Long Nose Pliers 32933 - 6.3" Diagonal Cutters
32923 - 8.0" Long Nose Pliers 32929 - 8.0" H.D. Diagonal Cutters
32917 - 9.0" Lineman's w/Cutters 32947 - 6.3" Stripping Pliers
32927 - 8.0" Cable Cutters 32945 - 7.0" Crimpers

1000Volt


In Roll
Out
Pouches

NEW
From Wiha

32988 22 Pc. Pliers/Cutters & SlimLine Blade 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.

Item# 32988 Set Includes: lbs. 5.74
32923 - 8.0" Long Nose Pliers 32933 - 6.3" Diagonal Cutters
32917 - 9.0" Lineman's w/Cutters 32929 - 8.0" H.D. Diagonal Cutters
32927 - 8.0" Cable Cutters 32947 - 6.3" Stripping Pliers
32945 - 7.0" Crimpers

15 Pc. *SlimLine* Blade Set includes: Insulated *SlimLine* Blade Holder
Slotted: 3.0, 4.0, 5.5, 6.5 Phillips: #1, #2 Xeno: #1, #2
TORX: T8, T10, T15, T20 Square: #1, #2

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

NEW
From Wiha

1000Volt

1000Volt

32981 3 Pc. Insulated Industrial Pliers & Cutters
Item No. Insulated Pliers & Cutters

32981 8.0" Combo Pliers, 8.0" Long Pliers, 8.0" Diagonal Cutters
lbs. 2.18

NEW
From Wiha

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

1000Volt

1000Volt

32983 5 Pc. Insulated Industrial Diagonal Cutters & Screwdrivers
Item No. Insulated Diagonal Cutters & Screwdrivers

32983 6.3"/160mm Diagonal Cutter

Insulated Divers: Slotted: 3.0, 4.5mm • Phillips: #1, #2

lbs. 1.17


NEW
From Wiha

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

1000Volt

1000Volt

32984 6 Pc. Insulated Industrial Combo Pliers & Screwdrivers
Item No. Insulated Combination Pliers & Screwdrivers

32984 8.0" Combination Pliers & 8" Long Nose Pliers

Divers: Slotted: 3.0, 4.5mm • Phillips: #2 • Square: #2

lbs. 2.06

NEW
From Wiha

In Belt Pack
Pouch

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

1000Volt

1000Volt

32985 7 Pc. Insulated Industrial Pliers/Cutters & Screwdrivers
Item No. Insulated Pliers/Cutters & Screwdrivers

32985 8.0" Combo Pliers, 6.3" Long Nose, 6.3" Diagonal Cutters

Insulated Divers: Slotted: 3.0, 4.5mm • Phillips: #1, #2

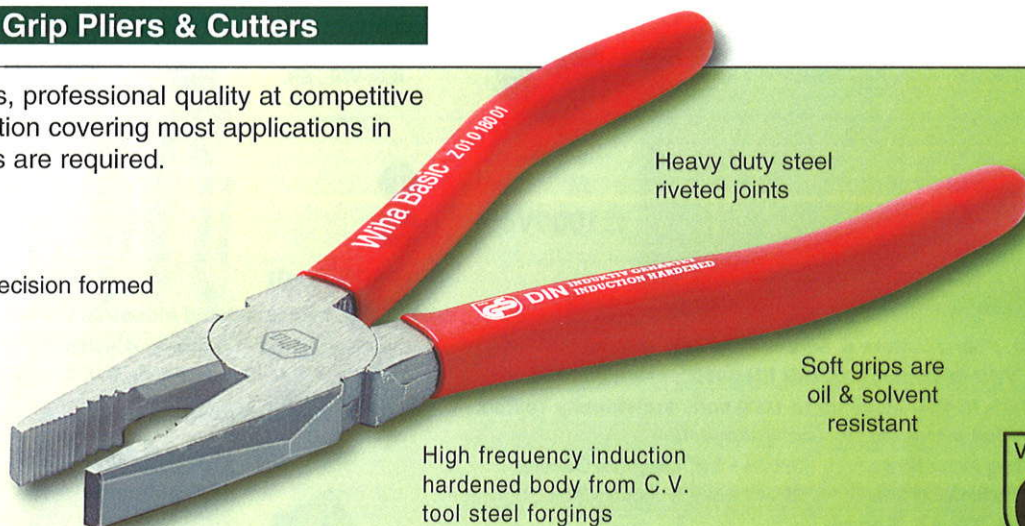
lbs. 2.30

Wiha Soft Grip Pliers & Cutters

Wiha Pliers & Cutters, professional quality at competitive prices. A wide selection covering most applications in which pliers & cutters are required.

Precision formed

Jaws and cutters induction hardened



Heavy duty steel riveted joints

Soft grips are oil & solvent resistant

High frequency induction hardened body from C.V. tool steel forgings



Lineman's Pliers With Crimpers

5-in-1 Lineman's Pliers



With Lower Crimping Jaw

32616 Lineman's Pliers "5-in-1" Professional Design

Deep cut radius conduit jaws 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. Vinyl coated cushion grips for best user comfort.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32616 Z01122001	225	9.0	#4	1	.88

Combination Pliers With Cutters



326 Combination Pliers With Cutters DIN ISO 5746

Extra long cutting edge for flat and round cables. Serrated jaws. Cutting edges additionally induction hardened to approx. 60HRC. C.V. Special tool steel. For gripping and holding as well as cutting soft and hard wires and cables. Soft vinyl grips, oil & solvent resistant.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32603 Z01016001	160	6.3	#10	1	.41
32606 Z01018001	180	7.0	#9	1	.50
32609 Z01020001	200	8.0	#8	1	.63

High Leverage Combination Pliers



326 High Leverage Heavy Duty Combination Pliers DIN ISO 5746

Extra long cutting edge for flat and round cables. Serrated jaws. Cutting edges additionally induction hardened to approx. 60HRC. C.V. Special tool steel forgings. Use For gripping, pulling & holding as well as cutting soft, hard & piano wires and cables. Soft vinyl grips are oil & solvent resistant.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32612 Z02020001	200	8.0	#4	1	.61
32615 Z02022501	225	9.0	#4	1	.78

Long Nose Pliers With Cutters



326 Long Nose Pliers With Cutters DIN ISO 5745

Long nose pliers. Extra long cutters for flat and round cables. Serrated Jaws. Cutting edges additionally induction hardened to approx. 60 HRC. Special CV tool steel forgings. Soft vinyl grips are oil & solvent resistant.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32618	Z05016001	160	6.3	#10	1	.28
32621	Z05020001	200	8.0	#8	1	.86

Bent Long Nose Pliers With Cutters

Angled 40°



326 Bent Long Nose Pliers With Cutters DIN ISO 5745

Long nose pliers angled 40°. Extra long cutters for flat and round wire. Partially Serrated Jaws. Cutting edges additionally induction hardened to approx. 60 HRC. Special CV tool steel forgings. Soft vinyl grips are oil & solvent resistant.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32623	Z05116001	160	6.3	#10	1	.28
32625	Z05120001	200	8.0	#8	1	.96

Long Flat Nose Pliers



32630 Long Flat Nose Pliers DIN ISO 5745

Extra long head. Serrated Jaws are induction hardened. Special CV tool steel forgings. Use for gripping and right-angled bending of wires and sheet metal parts. Soft vinyl grips are oil & solvent resistant.

Item No.		mm	Inch	Pkg.	lbs.
32630	Z07016001	160	6.3	1	.26

Long Round Nose Pliers



32633 Long Round Nose Pliers DIN ISO 5745

Extra long head. Serrated Jaws are induction hardened. Special CV tool steel forgings. Use for gripping and uniform round bending of wires and sheet metal parts. Soft vinyl grips are oil & solvent resistant.

Item No.		mm	Inch	Pkg.	lbs.
32633	Z09016001	160	6.3	1	.25

Stripping Pliers



32645 Stripping Pliers DIN ISO 5744

Heavy duty forged with induction hardened cutting edges for even stripping of insulation. Easy to use adjusting screw allows the stripping diameter to be set. Opening spring for effortless and sensitive handling of pliers. C.V. special tool steel. For Stripping up to Ø 5mm/#4 AWG conductor cross-section. Soft vinyl grips.

Item No.		mm	Inch	Stripping Capacity Copper Awg#	Pkg.	lbs.
32645	Z55016001	160	6.3	#4 - #28	1	.31

Wiha Soft Grip Pliers & Cutters

Standard Adjustable Pliers



326 Adjustable Pliers - Box Type DIN ISO 5745

10 different opening sizes provide optimal adjustment to objects being gripped. Long durability achieved through additional induction hardening of jaws to approx. 58-60 HRC. Chrome-vanadium tool steel, hardened and tempered. Soft vinyl grips are oil and solvent resistant.

Item No.		mm	Inch	Capacities		
				Round	Hex	Pkg. lbs.
32660	Z21001180	180	7.0	1.25	1 1/2	1 .35
32661	Z21001250	250	10.0	1.75	2.0	1 .67
32663	Z21001300	300	12.0	2.0	2 1/4	1 1.17

Slide Lock Adjustable Pliers - "QuickFix"



- Open and slide to adjust opening size
- Audible click at each locking position
- Close to lock

32668 Slide Lock Adjustable Pliers - Wiha QuickFix - Box Type

DIN ISO 8976 Super fast and easily adjusted pliers. Long durability achieved through additional induction hardening of jaws to approx. 56 HRC. Finger jam protection for safe operation in all settings. Chrome-vanadium tool steel, hardened and tempered. Soft vinyl grips.

Item No.		mm	Inch	Capacities		
				Round	Hex	Pkg. lbs.
32668	Z23025001	250	10.0	1 1/4	1 1/2	1 .72

Rapid Adjustable - Push Button Pliers



- Fast push button jaw release
- Finger jam protection in all settings

326 Push Button Adjustable Water Pump Pliers - DIN ISO 8976

Extra narrow head for working in restricted spaces. Rapid and simple push button setting and locking. Long durability achieved by additional inductive hardening of gripper jaws to approx. 58-60 HRC. Finger jam protection in all settings ensures safe operation. Chrome-vanadium tool steel, hardened and tempered. Soft vinyl grips. For gripping and holding pipes and angular profiles such as hex nuts in the installation area.

Item No.		mm	Inch	Capacities		
				Round	Hex	Pkg. lbs.
32664	Z22001180	180	7.0	1.25	1 1/2	1 .35
32665	Z22001250	250	10.0	1.75	2.0	1 .80
32667	Z22001300	300	12.0	2.0	2 1/4	1 1.21



32669 3 Piece Push Button Set

Drop-forged from special tool steel, individually high frequency induction hardened. Precision formed. Soft vinyl grips, oil & solvent resistant.

Item# 32669 Set Includes: lbs. 2.50

32664 - Push Button Adjustable Water Pump Pliers - 7.0"

32665 - Push Button Adjustable Water Pump Pliers - 10.0"

32667 - Push Button Adjustable Water Pump Pliers - 12.0"



32670 3 Piece Adjustable Pliers Set

Drop-forged from special tool steel, individually high frequency induction hardened. Precision formed. Soft vinyl grips, oil & solvent resistant.

Item# 32670 Set Includes: lbs. 2.52

32660 - Adjustable Pliers, Box Type - 7.0"

32661 - Adjustable Pliers, Box Type - 10.0"

32663 - Adjustable Pliers, Box Type - 12.0"

Wiha Soft Grip Pliers & Cutters

Diagonal Cutters



326 Diagonal Cutters DIN ISO 5749

Low wear lap joint, riveted and able to withstand high levels of load. Low force cutting action, clean cutting. Long life edge is achieved through additional induction hardening to approx. 60 HRC. Special CV tool steel hardened and tempered. For soft & medium hard wire. Soft vinyl grips.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32638	Z12014001	140	5.5	#6	1	.33
32642	Z12016001	160	6.3	#6	1	.49
32639	Z12018001	180	7.0	#6	1	.54

High Leverage Cutters



326 High Leverage Cutters DIN ISO 5749

Semi-circular. Low wear lap joint, riveted and able to withstand high levels of load. Low force action, clean cutting. Long life is achieved through additional induction hardening of cutting edge to 64 HRC. CV 60 special tool steel hardened and tempered. Soft vinyl grips.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
32646	Z16016001	160	6.3	#6	1	.42
32649	Z16018001	180	7.0	#5	1	.50
32652	Z16020001	200	8.0	#4	1	.63

Cable Cutters



326 Cable Cutters Light, energy-saving & clean cutting with specially ground precision cutting edges. Long life is achieved through additional induction hardening of cutting edge to 64 HRC. CV 60 special tool steel hardened and tempered. Soft vinyl grips. For cutting of copper & aluminum cables without crushing, also suitable for stripping. Not for steel cable, wires and copper conductors with hard coatings.

Item No.		mm	Inch	Cutting Capacity Copper/Aluminum	Pkg.	lbs.
32600	Z50101160	160	6.3	16mm	1	.34
32602	Z50101200	200	7.9	20mm	1	.62

Soft Grip Crimping Pliers



326 Crimping Pliers DIN ISO 5743

Semi-circular profiles for secure connection between end sleeve and conductor. Long life is achieved through additional induction hardening to 64 HRC. CV 60 special tool steel hardened & tempered. Soft vinyl grips.

Item No.		mm	Inch	mm ²	AWG	Pkg.	lbs.
32604	Z60001145	145	5.75	0.25-2.5	14-30	1	.29
32605	Z60001180	180	7.0	0.25-16	6-30	1	.57

Protturn Stripping Pliers



57872 Protturn Stripping Pliers

Wide long head with ridged gripping surface, shears blade and firm wire stripping stations. With opening spring and locking mechanism. Wire stripping stations 0.81 / 1.0 / 1.3 / 1.6 / 2.0 / 2.59mm, AWG 20 / 18 / 16 / 14 / 12 / 10.

#57872	mm	Inch	Ø	AWG	Pkg.	lbs.
	180	7.0	0.81-2.59	20-10	5	.124

Wiha Soft Grip Pliers & Cutters



32698 3 Piece Pliers & Cutters Set

Drop-forged from special tool steel, individually high frequency induction hardened. Precision formed. Soft vinyl grips, oil & solvent resistant.

Item# 32698 Set Includes:

↔ lbs. 1.39

32606 - Combination Pliers

32642 - Diagonal Cutters

32618 - Long Nose Pliers



32648 2 Piece Pliers & Cutters Set

Drop-forged from special tool steel, individually high frequency induction hardened. Precision formed. Soft vinyl grips, oil & solvent resistant.

Item# 32648 Set Includes:

↔ lbs. .78

32621 - Long Nose Pliers With Cutters - 8.0"

32642 - Diagonal Cutters - 6.3"



#32610

#32611

32610 Multipurpose Electrician's Heavy Duty Shears

High alloy carbon steel, hardened, burnished surface. Sturdy model, straight, very robust, micro-toothed cutting.

Item No.	mm	Inch	Pkg.	lbs.
32610	145	5.75	1	.05

32611 SoftGrip Electrician's & Craftsman Shears

Item No.	mm	Inch	Pkg.	lbs.
32611	145	5.75	1	.05

Wiha Soft Grip Nippers



326 High Leverage End Cutting Nippers DIN ISO 5749 Low wear lap joint, riveted and able to withstand high levels of load. Low force action, clean cutting. Long life cutting edges are achieved through additional induction hardening to approx. 60 HRC. Special CV tool steel forgings hardened and tempered. Soft vinyl grips are oil & solvent resistant.

Item No.		↔ mm	↔ Inch	Cutting Capacity Copper AWG	Pkg.	↔ lbs.
32657	Z17001160	160	6.3	#6	1	.41
32658	Z17018001	180	7.0	#5	1	.61
32659	Z17020001	200	8.0	#4	1	.75



326 Carpenter's End Nippers DIN ISO 9243

High cutting performance and reduced effort achieved through the precise formation of the cutting blade after assembly. Long life cutting edges achieved by additional induction hardening. Special CV tool steel, hardened and tempered. Soft vinyl grips are oil & solvent resistant.

Item No.		↔ mm	↔ Inch	Pkg.	↔ lbs.
32671	Z30018001	180	7.0	1	.62
32672	Z30001200	200	8.0	1	.86



326 Mason Nippers DIN ISO 9243

High cutting performance and reduced effort achieved through the precise formation of the cutting blade after assembly. Long life induction hardened cutting edges. Special tool steel, hardened and tempered. Soft vinyl Grips are oil & solvent resistant.

Item No.		↔ mm	↔ Inch	Cutting Capacity Hard Wire AWG	Pkg.	↔ lbs.
32674	Z31022001	220	8.75	#12	1	.76
32676	Z31025001	250	10.0	#12	1	.98
32678	Z31028001	280	11.0	#12	1	1.00
32680	Z31030001	300	12.0	#12	1	1.06

Wiha Soft Grip Pliers & Cutters



32601 4 Piece Pliers & Cutters Set

Drop-forged from special tool steel, individually high frequency induction hardened. Precision formed. Soft vinyl grips, oil & solvent resistant. In roll-up pouch.

Item# 32601 Set Includes:

 lbs. 3.16

32609 - Combination Pliers - 8.0"

32661 - Water Pump Pliers - 10.0"

32618 - Long Nose Pliers - 6.3"

32642 - Diagonal Cutters - 6.3"

Wiha Soft Grip Belt Pack Pouch Sets



NEW
From Wiha

Durable
Canvas Belt
Pack Pouch



32653 3 Piece Pliers/Cutters In Belt Pack Pouch

Pliers precision formed. Jaws & cutters induction hardened. Soft vinyl grips are oil & solvent resistant. SoftFinish cushion grip drivers, multi-component. Durable canvas belt pack pouch.

Item No.

Pliers & Cutters

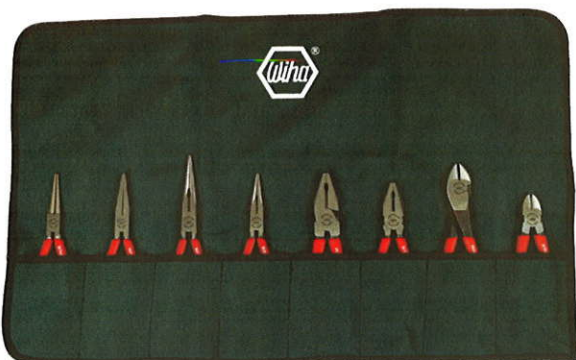
32653

8.0" / 200mm High Leverage Cutters

8.0" / 200mm Combo Pliers

8.0" / 200mm Long Nose Pliers

 lbs. 2.02



32608 8 Piece Pliers & Cutters In Canvas Pouch

Pliers precision formed. Jaws & cutters induction hardened. Long life edge is achieved through additional induction hardening to approx. 60 HRC. Soft vinyl grips are oil & solvent resistant.

Item No. Set Includes:

32608 6.3" / 160mm Combination Pliers

6.3" / 160mm Long Nose Pliers

 8.0" / 200mm Long Nose Pliers

lbs. 6.3" / 160mm Diagonal Cutters

4.42 6.3" / 160mm Long Flat Nose Pliers

6.3" / 160mm Long Round Nose Pliers

8.0" / 200mm High Leverage Cutters

9.0" / 225mm High Leverage Combo Pliers



NEW
From Wiha

Durable
Canvas Belt
Pack Pouch



32655 5 Piece Pliers/Cutters & Screwdrivers In Belt Pack Pouch

Pliers precision formed. Jaws & cutters induction hardened. Soft vinyl grips are oil & solvent resistant. Screwdriver blades CVM tool steel, hardened, hard chromed. SoftFinish cushion grip drivers, multi-component. Durable canvas belt pack pouch.

Item No.

Pliers & Cutters

32655

6.3" / 160mm Diagonal Cutters

8.0" / 200mm Long Nose Pliers

Cushion Grip Screwdrivers:

Slotted: 3.0, 4.5mm Phillips: 2

 lbs. 1.62

Wiha Soft Grip Pliers & Cutters

Retaining Ring Pliers - Internal



326 Straight Internal Retaining Ring Pliers DIN ISO 5256

Shape C, straight tips. Die forged cylindrical precision formed. Chrome-vanadium special tool steel. For inserting & removing internal retaining rings.

Item No.	mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
32681	139	5.5	5/16-1/2	8-13	.035/.9	1	.27
32682	140	5.5	1/2-1	12-25	.050/1.3	1	.27
32683	180	7.0	3/4-2 3/8	19-60	.070/1.5	1	.42
32684	225	8.9	1 1/2-4	40-100	.090/2.3	1	.63
32654	310	12.2	3.5-5.5	85-140	.126/3.2	1	1.13

90° Angle Retaining Ring Pliers - Internal



326 90° Angle Internal Retaining Ring Pliers DIN ISO 5254

Shape D, 90° angled tips. Die forged cylindrical precision formed. CV Special tool steel. For inserting & removing internal retaining rings. Soft vinyl grips.

Item No.	mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
32685	139	5.5	5/16-1/2	8-13	.035/.9	1	.27
32686	140	5.5	1/2-1	12-25	.050/1.3	1	.27
32687	180	7.0	3/4-2 3/8	19-60	.070/1.5	1	.43
32688	225	8.9	1 1/2-4	40-100	.090/2.3	1	.62
32656	310	12.2	3.5-5.5	85-140	.126/3.2	1	1.14

Retaining Ring Pliers - External



326 Straight External Retaining Ring Pliers DIN ISO 5254

Shape A, straight tips. Die forged cylindrical precision formed. CV special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

Item No.	mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
32689	139	5.5	1/8-3/8	3-10	.035/.9	1	.28
32690	140	5.5	3/8-1	10-25	.050/1.3	1	.28
32691	180	7.0	3/4-2 3/8	19-60	.070/1.5	1	.45
32692	225	8.9	1 1/2-4	40-100	.090/2.3	1	.62
32662	310	12.2	3.5-5.5	85-140	.126/3.2	1	1.13

90° Angle Retaining Ring Pliers - External



326 90° Angled External Retaining Ring Pliers DIN ISO 5254

Shape B, 90° angled tips. Die forged cylindrical precision formed. CV special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

Item No.	mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
32694	139	5.5	1/8-3/8	3-10	.035/.9	1	.28
32695	140	5.5	3/8-1	10-25	.050/1.3	1	.28
32696	180	7.0	3/4-2 3/8	19-60	.070/1.5	1	.44
32697	225	8.9	1 1/2-4	40-100	.090/2.3	1	.63
32666	310	12.2	3.5-5.5	85-140	.126/3.2	1	1.16

Wiha Forged Retaining Ring Pliers



32693 8 Piece Straight Retaining Ring Pliers Set Straight tips. Die forged cylindrical precision formed. Chrome-vanadium special tool steel. For inserting & removing internal and external retaining rings.

Item# 32693 Set Includes:

Internal Retaining Ring - Shape C

32681 5/16-1/2" / 8-13mm / tip .035

32682 1/2-1" / 12-25mm / tip .050

32683 3/4-2-3/8" / 19-60mm / tip .070

32684 1-1/2-4" / 40-100mm / tip .090

↔ lbs. 3.65

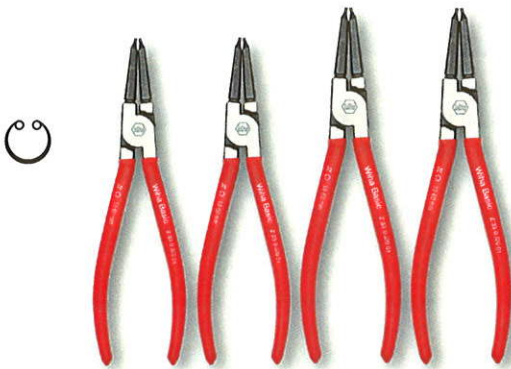
External Retaining Ring - Shape A

32689 1/8 - 3/8" / 3-10mm / tip .035

32690 3/8 - 1" / 10-25mm / tip .050

32691 3/4 - 2-3/8" / 19-60mm / tip .070

32692 1/2 - 4" / 40-100mm / tip .090



32626 4 Piece Straight Internal Ring Pliers Set Shape C, straight tips. Die forged cylindrical precision formed. Chrome-vanadium special tool steel. For inserting & removing internal retaining rings.

Item# 32626 Set Includes:

↔ lbs. 1.60

32681 5/16-1/2" / 8-13mm / tip .035

32683 3/4-2 3/8" 19-60mm / tip .070

32682 1/2-1" 12-25mm / tip .050

32684 1 1/2-4" 40-100mm / tip .090



32628 4 Piece Straight External Ring Pliers Set Shape A, straight tips. Die forged cylindrical precision formed. CV special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

Item# 32628 Set Includes:

↔ lbs. 1.52

32689 1/8-3/8" / 3-10mm / tip .035

32691 3/4-2 3/8" 19-60mm / tip .070

32690 3/8-1" 10-25mm / tip .050

32692 1 1/2-4" 40-100mm / tip .090



32627 4 Piece 90° Angle Internal Ring Pliers Set Shape D, 90° angled tips. Die forged cylindrical precision formed. CV Special tool steel. For inserting & removing internal retaining rings. Soft vinyl grips.

Item# 32627 Set Includes:

↔ lbs. 1.56

32685 5/16-1/2" / 8-13mm / tip .035

32687 3/4-2 3/8" 19-60mm / tip .070

32686 1/2-1" 12-25mm / tip .050

32688 1 1/2-4" 40-100mm / tip .090



32629 4 Piece 90° Angle External Ring Pliers Set Shape B, 90° angled tips. Die forged cylindrical precision formed. CV special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

Item# 32629 Set Includes:

↔ lbs. 1.52

32694 1/8-3/8" / 3-10mm / tip .035

32696 3/4-2 3/8" 19-60mm / tip .070

32695 3/8-1" 10-25mm / tip .050

32697 1 1/2-4" 40-100mm / tip .090



Wiha MagicTip Safety Ring Pliers

Patents Pending



Hardened MagicTips are notched to hold rings securely on .070, .090 & .126 sizes

NEW
From Wiha

- Faster & Easier Application
- Fewer Lost Rings
- Safer To Use
- Saves Time & Money

Tips made of premium quality hardened CVM tool steel, HRC 64

Heavy duty forged pliers with soft vinyl grips

High performance precision notched tips for maximum stability & secure holding

(Safety notched on .070, .090 & .126)



MagicTip Safety Ring Pliers-Internal



346 MagicTip Straight Internal Safety Ring Pliers DIN ISO 5256

Shape C, straight tips. Precision machined tips of Chrome-vanadium special tool steel. For inserting & removing internal retaining rings.

Item No.		mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
34608	Z334J0001	140	5.5	5/16-1/2	8-13	.035/.9	1	.21
34609	Z334J1001	140	5.5	1/2-1	12-25	.050/1.3	1	.21
34610	Z334J2001	180	7.1	3/4-2 3/8	19-60	.070/1.5	1	.34
34611	Z334J3001	220	8.7	1 1/2-4	40-100	.090/2.3	1	.54
34612	Z334J4001	305	12.0	3.5-5.5	85-140	.126/3.2	1	.90

MagicTip 90° Angle Safety Ring Pliers - Internal



346 MagicTip 90° Angle Internal Safety Ring Pliers DIN ISO 5254

Shape D, 90° angled tips. Precision machined tips of Chrome-vanadium Special tool steel. For inserting & removing internal retaining rings. Soft vinyl grips.

Item No.		mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
34613	Z335J0101	140	5.5	5/16-1/2	8-13	.035/.9	1	.21
34614	Z335J1101	140	5.5	1/2-1	12-25	.050/1.3	1	.21
34615	Z335J2101	180	7.1	3/4-2 3/8	19-60	.070/1.5	1	.34
34616	Z335J3101	220	8.7	1 1/2-4	40-100	.090/2.3	1	.54
34617	Z335J4101	305	12.0	3.5-5.5	85-140	.126/3.2	1	.90

No Dropped Rings!



Hardened MagicTips are notched to hold rings securely on .070, .090 & .126 sizes

Safety Notched "MagicTips"

Precision Machined To Hold Rings Securely

Saves Time & Money

Improves Productivity



MagicTip Safety Ring Pliers-External

MagicTip 90° Angle Safety Ring Pliers - External

346 MagicTip Straight External Safety Ring Pliers DIN ISO 5254

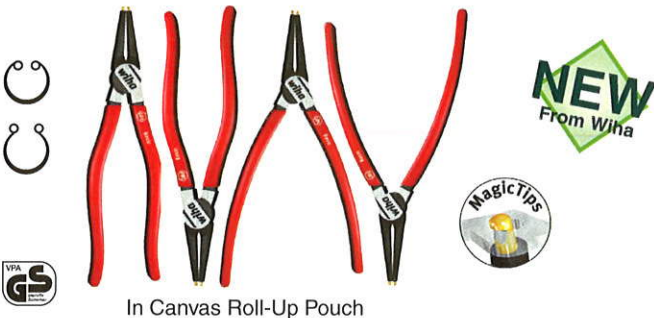
Shape A, straight tips. Precision machined tips of Chrome-vanadium special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

Item No.		mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
34618	Z344A0001	140	5.5	1/8-3/8	3-10	.035/.9	1	.20
34619	Z344A1001	140	5.5	3/8-1	10-25	.050/1.3	1	.20
34620	Z344A2001	185	7.3	3/4-2 3/8	19-60	.070/1.5	1	.34
34621	Z344A3001	240	9.5	1 1/2-4	40-100	.090/2.3	1	.57
34622	Z344A4001	300	11.8	3.5-5.5	85-140	.126/3.2	1	1.00

346 MagicTip 90° Angled External Safety Ring Pliers DIN ISO 5254

Shape B, 90° angled tips. Precision machined tips of Chrome-vanadium special tool steel. For fitting & removing external retaining rings.

Item No.		mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
34623	Z345A0101	140	5.5	1/8-3/8	3-10	.035/.9	1	.20
34624	Z345A1101	140	5.5	3/8-1	10-25	.050/1.3	1	.20
34625	Z345A2101	185	7.3	3/4-2 3/8	19-60	.070/1.5	1	.34
34626	Z345A3101	240	9.5	1 1/2-4	40-100	.090/2.3	1	.57
34627	Z345A4101	300	11.8	3.5-5.5	85-140	.126/3.2	1	1.00

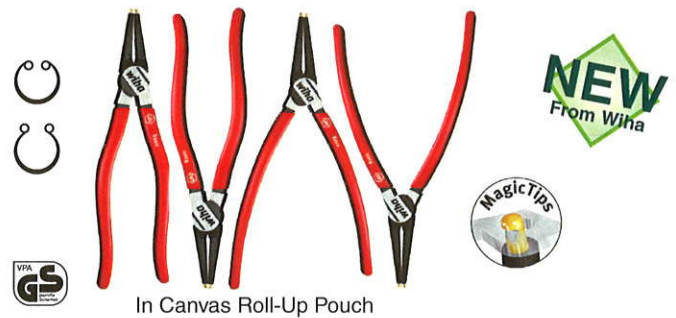


In Canvas Roll-Up Pouch

34651 4 Pc. Straight Safety & Standard Ring Pliers Set

Shape A & C, straight tips. Precision machined tips of Chrome-vanadium special tool steel. For inserting & removing retaining rings.

Item#	34651	Set Includes:	lbs. 1.54
34609	1/2-1" / 12-25mm / tip .050	34619	3/8-1" / 10-25mm / tip .050
34610	3/4-2 3/8" / 19-60mm / tip .070	34620	3/4-2 3/8" / 19-60mm / tip .070

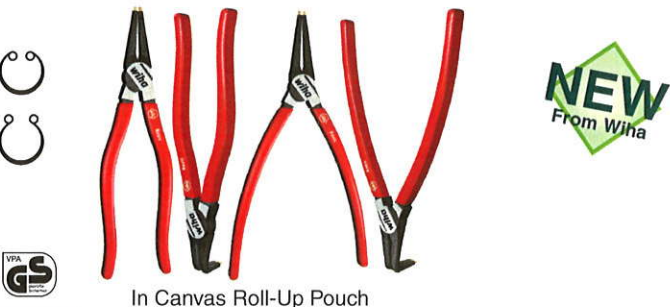


In Canvas Roll-Up Pouch

34653 4 Pc. Straight Safety & Standard Ring Pliers Set

Shape A & C, straight tips. Precision machined tips of Chrome-vanadium special tool steel. For inserting & removing retaining rings.

Item#	34653	Set Includes:	lbs. 1.54
34608	5/16-1/2" / 8-13mm / tip .035	34618	1/8-3/8" / 3-10mm / tip .035
34610	3/4-2 3/8" / 19-60mm / tip .070	34620	3/4-2 3/8" / 19-60mm / tip .070



In Canvas Roll-Up Pouch

34652 4 Piece Standard Tip Ring Pliers Set

Precision machined tips of Chrome-vanadium special tool steel. For inserting & removing retaining rings.

Item#	34652	Set Includes:	lbs. 1.27
34609	1/2-1" / 12-25mm / tip .050	34619	3/8-1" / 10-25mm / tip .050
34614	90° 1/2-1" / 12-25mm / tip .050	34624	90° 3/8-1" / 10-25mm / tip .050



In Canvas Roll-Up Pouch

34654 4 Pc. 90° Safety & Standard Ring Pliers Set

Shape D & B, 90° tips. Precision machined tips of Chrome-vanadium special tool steel. For inserting & removing retaining rings.

Item#	34654	Set Includes:	lbs. 1.54
34613	5/16-1/2" / 8-13mm / tip .035	34623	1/8-3/8" / 3-10mm / tip .035
34615	3/4-2 3/8" / 19-60mm / tip .070	34625	3/4-2 3/8" / 19-60mm / tip .070

Wiha Pipe Wrenches Narrow Style

Pipe Wrenches Narrow Style / S-Jaw



329 Pipe Wrenches Narrow Style / S-Jaw

S-Jaw shape angled 45°. Self clamping gripping of pipes and hex nuts at 3 points. Comfortable handle profile. Rapid adjusting nut. Hardened chrome-vanadium steel, induction hardened jaws. Safe and secure grip on pipes and hex nuts.

Item No.	Inch Length	Max. grip pipe dia.	maximum jaw opening	lbs.	Pkg.
32970	12.60	1	40mm (1.5")	2.4	1
32971	16.38	1.5	55mm (2.1")	2.4	1
32972	21.06	2	67mm (2.6")	3.9	1

All Steel Narrow Profile Pipe Wrenches

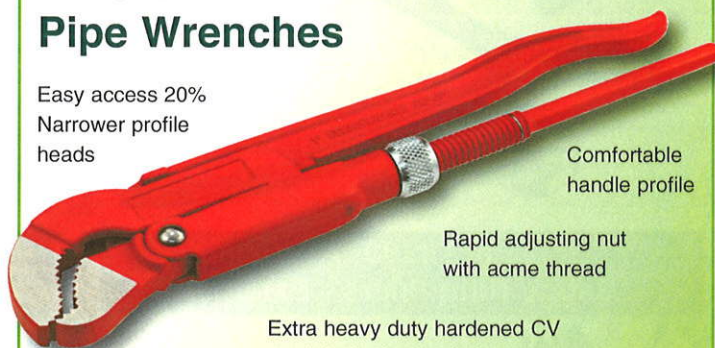
Easy access 20%
Narrower profile
heads

Comfortable
handle profile

Rapid adjusting nut
with acme thread

Extra heavy duty hardened CV
steel, induction hardened jaws

Safe and secure grip with back
raked serrated jaws



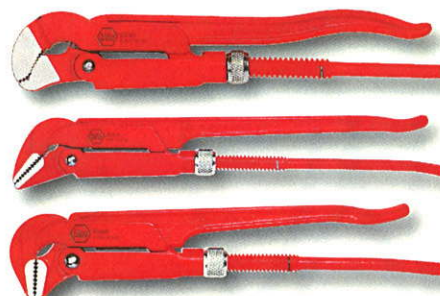
Pipe Wrenches Narrow Style - 45°



329 Pipe Wrenches Narrow Style - 45°

Narrow shape angled 45°. Safe and secure grip angled jaw teeth. Comfortable handle profile. Rapid adjusting nut. Hardened chrome-vanadium steel, induction hardened jaws. Safe and secure grip on pipes, flat work-pieces and nuts.

Item No.	Inch Length	Max. grip pipe dia.	Clamping range	lbs.	Pkg.
32974	12.36	1	40mm (1.5")	1.8	1
32975	16.77	1.5	55mm (2.1")	2.1	1
32976	22.44	2	67mm (2.6")	6.3	1



32995 3 Piece Pipe Wrench Sets

Hardened chrome-vanadium steel, induction hardened jaws. Safe and secure grip on pipes, flat work-pieces and nuts.

Item#	Set Includes:	lbs.
32970 - 12.60" S-Jaws	32978 - 12.20" 90° Jaws	5.60
32974 - 12.36" 45° Jaws		

Pipe Wrenches Narrow Style - 90°



329 Pipe Wrenches Narrow Style - 90°

Narrow shape angled 90°. Safe and secure grip angled jaw teeth. Comfortable handle profile. Rapid adjusting nut. Hardened chrome-vanadium steel, induction hardened jaws. Safe and secure grip on pipes, flat work-pieces and nuts.

Item No.	Inch Length	Max. grip pipe dia.	Clamping range	lbs.	Pkg.
32978	12.20	1	40mm (1.5")	2.2	1
32979	16.54	1.5	55mm (2.1")	3.2	1
32980	22.05	2	67mm (2.6")	6.0	1



32996 3 Piece Narrow Style 90° Pipe Wrench Sets

Narrow shape angled 90°. Safe and secure grip angled jaw teeth. Comfortable handle profile. Rapid adjusting nut.

Item#	Set Includes:	lbs.
32978 - 12.20" Narrow Style 90°	32980 - 22.05" Narrow Style 90°	10.80
32979 - 16.54" Narrow Style 90°		

Wiha Ratchet Crimpers

Ratchet End Sleeve Crimper



5 die nests
side entry
crimp

NEW
From Wiha



43612 Ratchet End Sleeve Crimper

Crimps Insulated & non-insulated end sleeves. 6 crimp positions range AWG 26-18, 18-16, 14, 12, 10, 8. Soft grip non-slip handles. Factory set auto release at end of crimp cycle.

Item No.	Inch Length	AWG Range	lbs.	Pkg.
43612	Z62000106	220mm/8.6"	26-8	1.18 1

Ratchet Crimper Push On Terminals



Crimp Profile
"F"/"B"

NEW
From Wiha

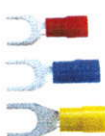


43624 Ratchet Crimper Push On Terminals

Crimps Insulated & non-insulated terminals. 4 crimp positions range AWG 22-20, 20-16, 16-14, 12-10. Soft grip non-slip handles. Factory set auto release at end of crimp cycle.

Item No.	Inch Length	AWG Range	lbs.	Pkg.
43624	Z62000306	220mm/8.6"	22-10	1.06 1

Ratchet Crimper For Standard Connectors



Crimp Profile

NEW
From Wiha



43618 Ratchet Crimper For Standard Connectors

Crimps Insulated & non-insulated connectors. 3 crimp positions range AWG 20-16 red, 16-14 blue, 12-10 yellow. Soft grip non-slip handles. Factory set auto release at end of crimp cycle.

Item No.	Inch Length	AWG Range	lbs.	Pkg.
43618	Z62000206	220mm/8.6"	20-10	1.06 1

Ratchet Crimper For Eye Terminals



Self adjusting
side entry crimp

NEW
From Wiha



43643 Ratchet Crimper For Eye Terminals

Crimps Insulated & non-insulated terminals. 4 crimp positions range AWG 26-20, 20-14, 12-10, 8-6. Soft grip non-slip handles. Factory set auto release at end of crimp cycle.

Item No.	Inch Length	AWG Range	lbs.	Pkg.
43643	Z62000406	220mm/8.6"	26-6	1.02 1

Wiha Industrial SoftGrip Pliers & Cutters

Made by Wiha

Maximum comfort in daily use, smooth operation & optimum force transmission without uncomfortable pressure points. Natural brushed finish.



New dynamic joint provides 40% easier cuts & significantly longer tool life

Induction hardened cutters

Ergonomic shape for maximum user comfort

NEW
From Wiha



Anti-slip soft dual material handles for safe gripping

Slip guards molded into grip

40/60
Dynamic Joint



Industrial SoftGrip Combination Pliers



NEW
From Wiha



309 Industrial Combination Pliers DIN ISO 5746

Extra long cutting edge for flat and round cables. Serrated jaws. Cutting edges additionally induction hardened to approx. 62HRC. Special CV tool steel. For gripping and holding as well as cutting soft and hard wires and cables. Two component Industrial SoftGrip ergonomic handles.

Item No.		mm	Inch	Cutting Capacity AWG	Pkg.	lbs.
30901	Z01002160	160	6.3	#9	1	.52
30903	Z01002180	180	7.0	#8	1	.67
30905	Z01002200	200	8.0	#7	1	.83

Industrial SoftGrip Heavy Duty Combo Pliers



NEW
From Wiha



309 Industrial Heavy Duty Combination Pliers DIN ISO 5746

Larger Head and extra long cutting edges for flat and round cables. Serrated jaws. Cutting edges additionally induction hardened to approx. 62HRC. Special CV tool steel. For gripping & holding as well as cutting wires & cables ranging in hardness from soft to extremely hard. Two component SoftGrip ergo handles.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
30907	Z02002200	200	8.0	#7	1	.81
30909	Z02002225	225	9.0	#6	1	1.02

Industrial SoftGrip Linemans Crimpers



NEW
From Wiha



30912 Industrial Linemans Crimpers DIN ISO 5746

Extra large head and extra long cutting edges for flat and round cables. Cutting edges additionally induction hardened to approx. 62HRC. Special CV tool steel. For gripping & holding as well as cutting wires & cables ranging in hardness from soft to extremely hard. Two component SoftGrip ergo handles.

Item No.		mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
30912	Z01102220	225	9.0	#4	1	1.05

Industrial SoftGrip Stripping Pliers



NEW
From Wiha



For stripping up to
Ø 5mm/#4 AWG

30947 Industrial Stripping Pliers DIN ISO 5743

Heavy duty forged with induction hardened cutting edges for even stripping of insulation. Easy to use adjustment screw allows stripping diameter to be quickly changed. Return spring for effortless use. Special CV tool steel edges. Stripping Diameter: .019" to .393".

Item No.		mm	Inch	Stripping Capacity Copper AWG	Pkg.	lbs.
30947	Z55002160	160	6.3	#4 - #28	1	.48

Wiha Industrial SoftGrip Pliers & Cutters

Industrial SoftGrip Long Nose Pliers



309 Industrial Long Nose Pliers With Cutting Edge DIN ISO 5745
 Long nose pliers. Extra long cutters for flat and round wires. Gripping surfaces serrated in parts. Cutting edges additionally induction hardened to approx. 62HRC. Special tool steel. Two component SoftGrip handle.

Item		↔	↔	Cutting Capacity		
No.		mm	Inch	AWG	Pkg.	lbs.
30911	Z05002160	160	6.3	#10	1	.41
30913	Z05002200	200	8.0	#10	1	.56

Industrial SoftGrip Bent Long Nose Pliers

Angled approx. 40°



309 Industrial Bent Nose Pliers With Cutters DIN ISO 5745
 Long nose pliers angled approx. 40°. Extra long cutting edge for flat and round wires. Gripping surfaces serrated in parts. Cutting edges additionally induction hardened to approx. 62HRC. Special tool steel. Two component SoftGrip handle.

Item		↔	↔	Cutting Capacity		
No.		mm	Inch	Copper AWG	Pkg.	lbs.
30915	Z05102160	160	6.3	#10	1	.42
30917	Z05102200	200	8.0	#10	1	.57

Industrial SoftGrip Flat Nose Pliers



30919 Industrial Long Flat Nose Pliers DIN ISO 5745
 Extra long head. Gripping surfaces serrated and induction hardened. Special tool steel. Two component SoftGrip handle. Gripping and right-angled bending of wires and sheet metal parts.

Item		↔	↔			
No.		mm	Inch	Pkg.	lbs.	
30919	Z07002160	160	6.3	1	.43	

Industrial SoftGrip Long Round Nose Pliers



30921 Industrial Long Round Nose Pliers DIN ISO 5745
 Extra long head. Gripping surfaces serrated and induction hardened. Special tool steel. Two component SoftGrip handle. Gripping and bending of wires and sheet metal parts.

Item		↔	↔			
No.		mm	Inch	Pkg.	lbs.	
30921	Z09002160	160	6.3	1	.39	

Stripping Pliers



56871 Stripping Pliers

Wide long head with ridged gripping surface, shears blade and firm wire stripping stations. With opening spring and locking mechanism. Wire stripping stations 0.81 / 1.0 / 1.3 / 1.6 / 2.0 / 2.59mm, AWG 20 / 18 / 16 / 14 / 12 / 10.

#56871	mm	Inch	Ø	AWG	Pkg.	lbs.
	180	7.0	0.81-2.59	20-10	5	.15

Wiha Industrial SoftGrip Pliers & Cutters

Made by Wiha

Industrial SoftGrip Diagonal Cutters



309 Industrial Diagonal Cutters DIN ISO 5749

Low wear lap joint, riveted and able to withstand high levels of load. Low force action, clean cutting. Long life cutting edge is achieved with additional induction hardening to approx. 62HRC. Special CV tool steel forgings hardened and tempered. For soft & medium hard wire.

Item No.	mm	Inch	Cutting Capacity Copper AWG	Pkg.	lbs.
30923 Z12002140	140	5.5	#8	1	.45
30925 Z12002160	160	6.3	#7	1	.57
30927 Z12002180	180	7.0	#6	1	.69

Industrial SoftGrip H. Leverage Diag. Cutters



309 Industrial High Leverage Diagonal Cutters DIN ISO 5749

Semi-circular. Low wear lap joint, riveted and able to withstand high levels of load. Low force action, clean cutting. Long life cutting edges are achieved through additional induction hardening to approx. 62HRC. C60 special CV tool steel hardened and tempered.

Item No.	mm	Inch	Cutting Capacity AWG	Pkg.	lbs.
30929 Z16002160	160	6.3	#6	1	.57
30931 Z16002180	180	7.0	#6	1	.68
30933 Z16002200	200	8.0	#6	1	.89

Industrial SoftGrip Cable Cutters



309 Industrial Cable Cutters DIN ISO 5749

Energy saving & clean cutting cable cutters with specially ground precision cutting edges. Long life cutting edges are achieved through additional induction hardening to approx. 62HRC. C60 special CV tool steel hardened and tempered. Two component SoftGrip ergo handle.

Item No.	mm	Inch	Cutting Capacity Copper/Aluminum	Pkg.	lbs.
30926 Z50102160	160	6.3	16mm	1	.56
30928 Z50102200	200	8.0	20mm	1	.87

Industrial SoftGrip Standard Adj. Pliers



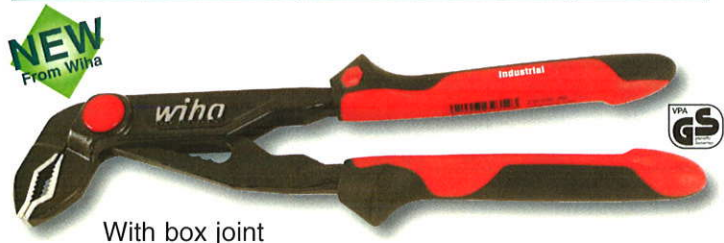
With box joint

30937 Industrial Adjustable Pliers DIN ISO 8976

10 opening settings provides optimal adjustment to objects being gripped. Long life achieved through additional induction hardening of jaws to approx. 62HRC. Chrome-vanadium tool steel forgings, hardened and tempered. Two component SoftGrip ergonomic handle. Black finish.

Item No.	mm	Inch	Capacities Round Hex	Pkg.	lbs.
30937 Z21002250	250	10.0	1 3/4" 2"	1	.94

Industrial SoftGrip Push Button Adj. Pliers



With box joint

30943 Industrial Slide Lock Adjustable Pliers - Box Joint - With Push Button Setting. DIN ISO 8976 Extra narrow head for working small spaces. Rapid and simple push button setting and locking. Long life achieved through additional induction hardening of jaws to approx. 62HRC. Finger jam protection for safe operation at all settings. CVM tool steel forgings, hardened and tempered. SoftGrip handles.

Item No.	mm	Inch	Capacities Round Hex	Pkg.	lbs.
30943 Z22025005	250	10.0	1 3/4" 2"	1	.95

ComfortGrip Slide Lock Adjustable Pliers

With box joint



Rapid adjust

- Close to lock
- Open and slide to adjust opening size
- Audible click at each locking position

32969 Slide Lock Adjustable Pliers - Wiha QuickFix - Box Joint

DIN ISO 8976 Super fast and easily adjusted pliers. Long durability achieved through additional induction hardening of jaws to approx. 56 HRC. Finger jam protection for safe operation at all settings. Chrome-vanadium tool steel forgings, hardened and tempered. Chrome finish with ergonomic ComfortGrip handles.

Item No.	Capacities		Weights	
	mm	Inch	Round Hex	Pkg. lbs.
32969 Z23025005	250	10.0	1 1/4" 1 1/2"	1 .80

Industrial SoftGrip Pliers & Cutters Sets


NEW
 From Wiha

30993 3 Piece Industrial SoftGrip Pliers & Cutters Set

Maximum comfort in daily use, smooth operation and optimum force transmission without uncomfortable pressure points. Cutters additionally induction hardened. Anti-slip soft dual material handles for safe gripping, ergonomic shape for maximum user comfort.

Item# 30993 Set Includes:

- 30905 Combination Pliers - 8.0"
- 30925 Diagonal Cutters - 6.3"
- 30911 Long Nose Pliers - 6.3"


 lbs.
 1.76

NEW
 From Wiha

30990 4 Piece Industrial SoftGrip Pliers & Cutters Set

Maximum comfort in daily use, smooth operation and optimum force transmission without uncomfortable pressure points. Cutters additionally induction hardened. Anti-slip soft dual material handles for safe gripping, ergonomic shape for maximum user comfort.

Item# 30990 Set Includes:

- 9.0" - Heavy Duty Combination Pliers
- 8.0" - Long Nose Pliers
- 8.0" - High Leverage Diagonal Cutters
- 7.0" - ComfortGrip Stripping Pliers


 lbs.
 2.81

Industrial SoftGrip Pliers & Cutters Sets


NEW
 From Wiha


30998 8 Piece Industrial SoftGrip Pliers & Cutters Set

Maximum comfort in daily use, smooth operation and optimum force transmission without uncomfortable pressure points. Cutters additionally induction hardened. Anti-slip soft dual material handles for safe gripping, ergonomic shape for maximum user comfort.

Item# 30998 Set Includes:

- 6.3" - Combination Pliers
- 9.0" - Heavy Duty Combination Pliers
- 6.3" - Long Nose Pliers
- 8.0" - Long Nose Pliers
- 5.5" - Diagonal Cutters
- 8.0" - High Leverage Diagonal Cutters
- 10.0" - Adjustable Pliers
- 7.0" - ComfortGrip Stripping Pliers


 lbs.
 4.91

NEW
 From Wiha


30991 18 Piece Industrial SoftGrip Pliers/Cutters, Screwdrivers & Wrenches Set

Maximum comfort in daily use, smooth operation and optimum force transmission without uncomfortable pressure points. Cutters additionally induction hardened. Anti-slip soft dual material handles for safe gripping, ergonomic shape for maximum user comfort.

Item# 30991 Set Includes:

- 8.0" - Combination Pliers
- 6.3" - Long Nose Pliers
- 6.3" - Diagonal Cutters
- 10.0" - Adjustable Pliers
- Slotted: 5/32, 1/4" Phillips: 1, 2
- Torx: T15, T20, T25 Square: 1, 2
- Wrenches: 1/4"x5/16", 3/8x7/16", 1/2x9/16", 3/4x7/8"


 lbs.
 6.76

Wiha Precision Electronic Pliers & Cutters

Electronics pliers with cutting edges are designed especially for cutting soft to medium hard wires.

C70 tool steel HR60 hardness

Glare free black finish

Precision ground cutting edges for smooth cuts



The Comfortable Precision Pliers & Cutters

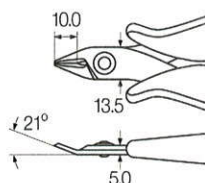


Velvet soft ergonomically designed multi component handle

Lay-on, riveted precision joint

Light weight design for maximum user comfort in production work

Electronic Diagonal Cutters

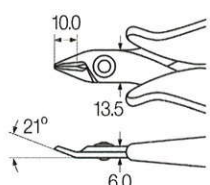


Full Flush

56818 Precision Electronic Diagonal Cutters, Wide Pointed Head
Cutting edge - full flush. With return spring. C70 special tool steel. For an absolutely flush cut of copper wire.

#56818	mm	Inch	Cut Capacity	Pkg.	lbs.
	138	5.5	1.3mm/16AWG	5	.22

Electronic Diagonal Cutters

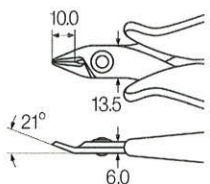


Semi Flush

56815 Precision Electronic Diagonal Cutters, Wide Pointed Head
Cutting edge - semi flush. With return spring. C70 special tool steel. Universal small diagonal cutter for cutting copper wires.

Item No.	mm	Inch	Cut Capacity	Medium Hard Wire	Pkg.	lbs.
#56815	138	5.5	2.0mm/12AWG	0.8	5	.23

Electronic Diagonal Cutters



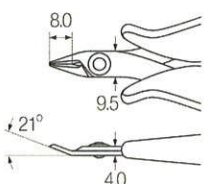
Full Flush

Wire Holding Spring

56825 Precision Electronic Diagonal Cutters, Wide Shape With Wire Holding Spring Wide, Pointed head. Cutting edge - full flush. With return spring & fixture for holding ends of wires that have been cut off. C70 special tool steel. For an absolutely flush cut of copper wire.

#56825	mm	Inch	Cut Capacity	Pkg.	lbs.
	138	5.5	1.3mm/16AWG	5	.23

Electronic Diagonal Cutters



Full Flush

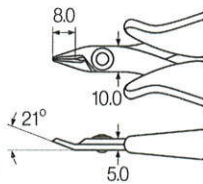
56812 Precision Electronic Diagonal Cutters, Narrow Shape Extra narrow, short head for working in particularly restricted spaces. Cutting edge - full flush. With return spring. C70 special tool steel. For absolutely flush cutting of copper wires in difficult to access locations.

#56812	mm	Inch	Cut Capacity	Pkg.	lbs.
	118	4.5	0.8mm/20AWG	5	.19

Electronic Diagonal Cutters



Wire Holding Spring

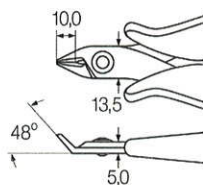


Full Flush

56813 Precision Electronic Diagonal Full Flush Cutters With Wire Trapping Spring Extra narrow, short head for working in particularly restricted spaces. Cutting edge - full flush. With return spring. C70 special tool steel. For absolutely flush cutting of copper wires in difficult to access locations.

#56813	mm	Inch	Cut Capacity	Pkg.	lbs.
	128	5.0	1.0mm/18AWG	5	.19

Electronic Oblique 48° Cutter



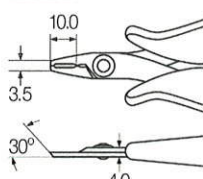
Full Flush

56833 Electronic Oblique 48° Cutter

Wide pointed head. Cutting edge - full flush. With cutting edge at 48° for cutting obliquely from above or from the side. C70 special tool steel. For absolutely flush cutting of copper wires in difficult to access locations.

#56833	mm	Inch	Cut Capacity	Pkg.	lbs.
	138	5.5	1.3mm/16AWG	5	.22

Narrow Front Cutter/Long Nose Pliers



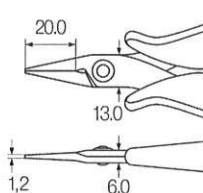
Full Flush

56830 Electronic Narrow 30° Front Cutter / Long Nose Pliers

Extremely narrow, short head for working in particularly restricted spaces. Cutting edge - full flush. Edge at 30° to face end of pliers for cutting obliquely from above or from the side. C70 special tool steel. For absolutely flush cutting of copper wires in difficult to access locations.

#56830	mm	Inch	Cut Capacity	Pkg.	lbs.
	118	4.5	0.6mm/22AWG	5	.19

Electronic Pointed Pliers

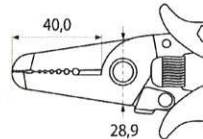


56801 Electronic Short Nose Precision Pliers

Narrow, short head. Smooth jaws. Width at tip is only 1.2mm. C70 special tool steel. For holding small components as well as for holding and angling wires.

#56801	mm	Inch	Pkg.	lbs.
	138	5.5	5	.23

Electronic Stripping Pliers



56871 Electronic Stripping Pliers

Wide long head with ridged gripping surface, shears blade and firm wire stripping stations. With opening spring and locking mechanism. Wire stripping stations 0.81 / 1.0 / 1.3 / 1.6 / 2.0 / 2.59mm, AWG 20 / 18 / 16 / 14 / 12 / 10.

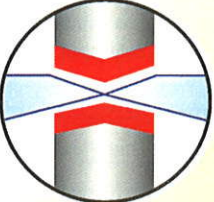
#56871	mm	Inch	Ø	AWG	Pkg.	lbs.
	180	7.0	0.81-2.59	20-10	5	.15

NEW
From Wiha

Wiha ESD Safe Pliers & Cutters



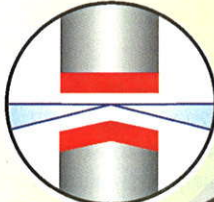
Beveled Cutter



Semi-Flush Cutter



Flush Cutter



Ultra Full Flush

Box joint for longer tool life & endurance, mirror polished finish

ESD standard IEC 61340-5-1

Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort & user fatigue

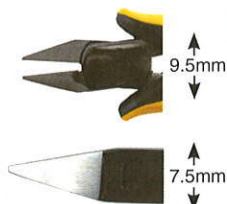
Welded double leaf spring

Hardened & annealed high carbon tool steel, induction hardened cutting edges




Precision Cutters Tapered Head

Semi Flush



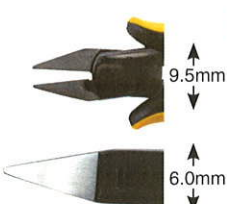
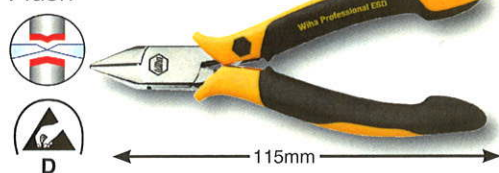
32703 Precision Cutters, Small Tapered Head, Semi Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32703	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Precision Cutters Tapered Head

Flush



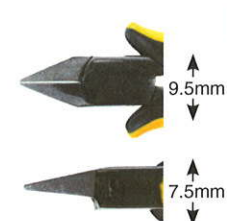
32705 Precision Cutters, Small Tapered Head, Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32705	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Precision Cutters Tapered Head

Semi Flush



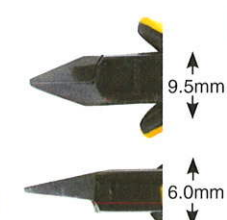
32702 Precision Cutters, Small Tapered Head With Hollow Ground Back, Semi Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32702	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Precision Cutters Tapered Head

Flush



32704 Precision Cutters, Small Tapered Head With Hollow Ground Back, Flush

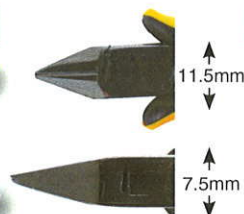
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32704	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Wiha ESD Safe Pliers & Cutters

Precision Cutters Wide Tapered Head

Bevel



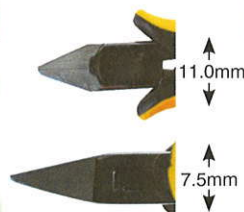
#32706 Precision Cutters, Wide Tapered Head, Bevel

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32706	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.4	11.0mm	1	.20

Precision Cutters Wide Tapered Head

Flush



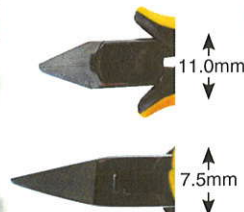
#32708 Precision Cutters, Wide Tapered Head, Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32708	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.19

Precision Cutters Wide Tapered Head

Full Flush



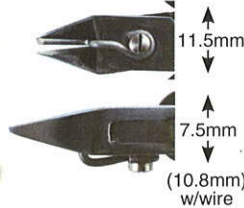
#32710 Precision Cutters, Wide Tapered Head, Full Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32710	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	11.0mm	1	.23

Precision Cutters Wide Tapered Head

Flush



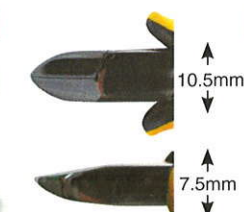
#32711 Precision Cutters, Wide Tapered Head With Wire Trapping Device, Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32711	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.19

Precision Cutters Slim Oval Form

Flush



#32712 Precision Cutters, Slim Oval Head, Flush

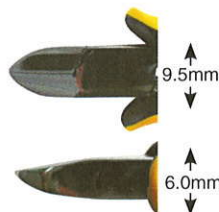
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32712	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	10.5mm	1	.23

Wiha ESD Safe Pliers & Cutters

Precision Cutters Slim Oval Form

Full Flush



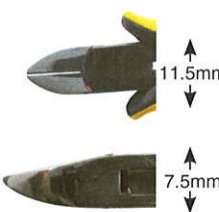
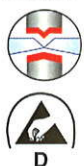
32714 Precision Cutters, Slim Oval Head, Full Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32714	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.0	10.0mm	1	.23

Precision Cutters Slim Oval Form

Bevel



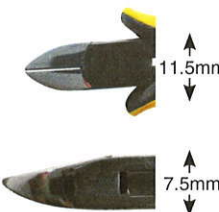
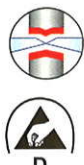
32716 Precision Cutters, Wide Oval Head, Bevel

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32716	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.4	11.0mm	1	.19

Precision Cutters Wide Oval Form

Flush



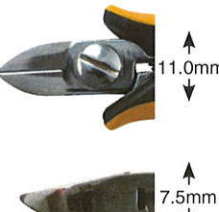
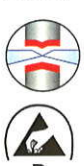
32720 Precision Cutters, Wide Oval Head, Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32720	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.19

Precision Cutters Wide Oval Form And Carbide Edge

Bevel



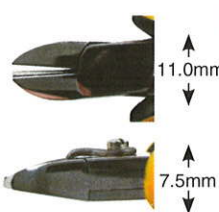
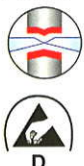
32718 Precision Cutters, Wide Oval Head Carbide Cutting Edges, Bevel

Cutters drop-forged for an ideal material structure. Precise aligned carbide cutting edge. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32718	mm	Inch	Copper	Head Width	Pkg.	lbs.
	110	4 3/8	1.6	11.0mm	1	.20

Precision Cutters Wide Oval Form

Flush



32721 Precision Cutters, Wide Oval Head With Wire Trapping Device, Flush

Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32721	mm	Inch	Copper	Head Width	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.23

Wiha ESD Safe Pliers & Cutters

Oblique Angled Cutters

Flush



115mm

 12.0mm
 7.5mm

32722 Oblique Angled Cutters, 29°, Flush

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32722	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.2	12.0mm	1	.24

Oblique Angled Cutters

Ultra Full Flush



115mm

 12.0mm
 7.5mm

32724 Oblique Angled Cutters, 29°, Full Flush

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32724	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.0	12.0mm	1	.24

Oblique Angled Cutters

Semi Flush



115mm

 12.0mm
 7.5mm

32726 Oblique Angled Cutters, 29°, Short Head, Semi Flush

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32726	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.2	12.0mm	1	.24

Oblique Front Cutters

Flush



130mm

 9.7mm
 6.2mm

32728 Oblique Front Cutters, Very Small Head, 40°, Flush

Oblique Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32728	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	130	5.1	0.6	8.5mm	1	.21

ESD Safe Tool Set In Canvas Pouch



32793 11 Piece Set, 4 ESD Safe Pliers, Slotted & Phillips

Screwdrivers Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD standard IEC 61340-5-1

#32793 11 piece ESD Safe Pliers & Slotted/Phillips Precision Drivers
 Set in custom case includes:

ESD Safe Pliers & Cutters

32705 4.5" Tapered Flush Cutters	32742 4.5" Snipe Nose Pliers
32728 4.375" Oblique Cutters	32746 5.7" Long Nose Pliers

ESD Safe Screwdrivers

27220 Slotted 2.0mm	27305 Phillips #00
27225 Slotted 2.5mm	27310 Phillips #0
27230 Slotted 3.0mm	27320 Phillips #1
27235 Slotted 3.5mm	

lbs. 2.43

Wiha ESD Safe Pliers & Cutters

End Cutters Extra Slim

Semi Flush



Tip Width

7.0mm

2.9mm

6.0mm

#32732 End Cutters, Extra Slim, Semi Flush

End Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32732	mm	Inch	Copper	Tip Wdth	Pkg.	lbs.
	130	5.1	0.6	4.1mm	1	.16

End Cutters Wide Head

Flush



11.5mm

16.5mm

7.5mm

#32734 End Cutters, Wide Head, Flush

End Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32734	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.4	11.0mm	1	.18

ESD Safe Pliers

Short Snipe Nose



9.5mm

6.5mm

#32742 ESD Safe Pliers, Short Snipe Nose (Chain Nose) Straight, Serrated Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32742	mm	Inch	Head Wdth	Pkg.	lbs.
	120	4 3/4	9.5mm	1	.20

ESD Safe Pliers

Bent Snipe Nose 45°



9.5mm

6.5mm

#32744 ESD Safe Pliers, Snipe Nose (Chain Nose) Bent 45°, Smooth Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32744	mm	Inch	Head Wdth	Pkg.	lbs.
	120	4 3/4	9.5mm	1	.20

ESD Safe Pliers

Long Needle Nose



12.0mm

7.5mm

#32746 ESD Safe Pliers, Long Needle Nose Pliers, Straight, Serrated Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32746	mm	Inch	Head Wdth	Pkg.	lbs.
	145	5 3/4	12.0mm	1	.27

Wiha ESD Safe Pliers & Cutters

ESD Safe Pliers

Needle Nose, Bent 90°



32748 ESD Safe Pliers, Needle Nose Pliers, Bent 90°, Smooth Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32748	mm	Inch	Head Wdth	Pkg.	lbs.
	145	5 3/4	12.0mm	1	.21

ESD Safe Pliers

Short Round Nose Pliers



32750 ESD Safe Pliers, Short Round Nose Pliers, Smooth Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32750	mm	Inch	Head Wdth	Pkg.	lbs.
	120	4 3/4	9.5mm	1	.17

ESD Safe Pliers

Short Flat Nose Pliers



32752 ESD Safe Pliers, Short Flat Nose Pliers, Smooth Jaws

Pliers drop-forged for an ideal material structure. Precisely aligned, jaws, hardened. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32752	mm	Inch	Head Wdth	Pkg.	lbs.
	120	4 3/4	9.5mm	1	.16



32790 4 Piece ESD Safe Pliers Set In Custom Case Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32790 4 piece ESD Safe Pliers Set

Set includes:

32716 4.5" Oval Side Cutters
32752 4.75" Flat Nose Pliers

32746 5.75" Long Nose Pliers
32728 4.375" Oblique Cutters

lbs. 2.06



ESD standard
IEC 61340-5-1

32791 11 Pc. Set, 4 ESD Safe Pliers, SYSTEM 4 Slotted & Phillips 5 Pc. Set & 2 ESD Safe Tweezers

Pliers drop-forged for an ideal material structure. Two component non-slip soft grip handle. ESD Safe Precision handle & 4 CVM tool steel blades. Tweezers anti-static conductive, ESD Safe Hypo allergenic, anti-magnetic stainless.

#32791 11 piece ESD Safe Pliers, Tweezers & SYS 4 precision Set in custom case includes:

ESD Safe Pliers & Cutters

32716 4.5" Oval Side Cutters
32752 4.75" Flat Nose Pliers

32746 5.75" Long Nose Pliers
32728 4.375" Oblique Cutters

SYSTEM 4 Set in separate pouch

28000 ESD Safe Conductive Precision Handle

Slotted: 1.5, 2.0, 3.0 & 4.0

Phillips: 000, 00, 0 & 1

ESD Safe Tweezers: 44501 AA SA ESD 44510 7a SA ESD

lbs. 2.43


Wiha ESD Safe Protturn Pliers & Cutters
NEW
From Wiha

protturn

 Glare free
black finish

 Surface resistance of handles is $10^6 - 10^9$ Ohms

 Hardened steel
return spring

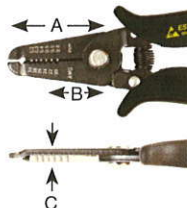
 ESD standard
IEC 61340-5-1

 Tested ESD Safe
handle with non-slip
soft grip surface,
protects the hand
and reduces manual
effort & user fatigue

ESD Safe Wire Stripper

protturn


165mm


45810 Protturn ESD Safe Wire Stripper

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

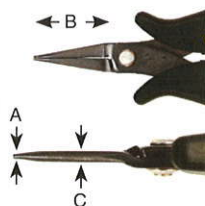
Strips 0.2, 0.3, 0.4, 0.5, 0.6, 0.8mm

#45810	mm	Inch	Strips AWG	A	B	C	Pkg.	lbs.
	165	6.5	30 to 20	30mm	12mm	4mm	1	.25

ESD Safe Long Nose Pliers

protturn


160mm


45811 Protturn ESD Safe Long Nose Pliers

ESD standard IEC 61340-5-1. C70 special tool steel.

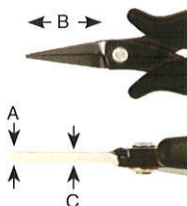
Glare free, black finish. ESD Safe handle with non-slip grips.

#45811	mm	Inch	A	B	C	Pkg.	lbs.
	160	6.3	2mm	30mm	3mm	1	.18

ESD Safe Flat Nose Pliers

protturn


160mm


45812 Protturn ESD Safe Flat Nose Smooth Jaws Pliers

ESD standard IEC 61340-5-1. C70 special tool steel.

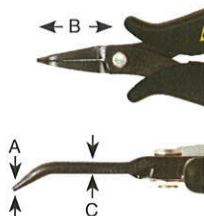
Glare free, black finish. ESD Safe handle with non-slip grips.

#45812	mm	Inch	A	B	C	Pkg.	lbs.
	160	6.3	2mm	32mm	3mm	1	.18

Wiha ESD Safe Protturn Pliers & Cutters

 Surface resistance of handles is $10^6 - 10^9$ Ohms

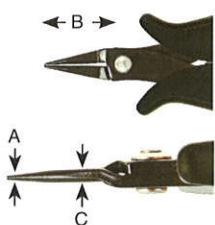
NEW
 From Wiha

ESD Safe Bent Nose Pliers

45813 Protturn ESD Safe Bent Nose Pliers

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

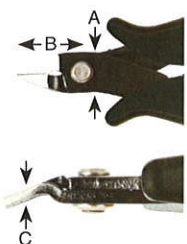
#45813	mm	Inch	A	B	C	Pkg.	lbs.
	152	6.0	2mm	30mm	4mm	1	.18

ESD Safe Round Nose Pliers

45814 Protturn ESD Safe Round Nose Pliers

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

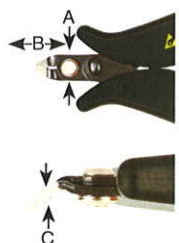
#45814	mm	Inch	A	B	C	Pkg.	lbs.
	152	6.0	2mm	22mm	3mm	1	.17

ESD Safe Diagonal Cutters

45820 Protturn ESD Safe 21° Precision Cutters/Flush Cut

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

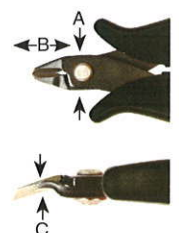
#45820	mm	Inch	AWG	A	B	C	Pkg.	lbs.
	127	5.0	18/1mm	13mm	12mm	3mm	1	.16

ESD Safe Diagonal Cutters

45821 Protturn ESD Safe 45° Precision Cutters/Flush Cut

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

#45821	mm	Inch	AWG	A	B	C	Pkg.	lbs.
	127	5.0	18/1mm	10mm	9mm	2mm	1	.14

ESD Safe Diagonal Cutters

45822 Protturn ESD Safe 21° Precision Cutters/Flush Cut

ESD standard IEC 61340-5-1. C70 special tool steel.

Glare free, black finish. ESD Safe handle with non-slip grips.

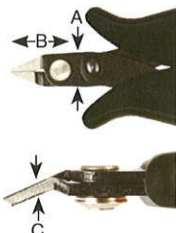
#45822	mm	Inch	AWG	A	B	C	Pkg.	lbs.
	140	5.5	16/1.3mm	13mm	12mm	3mm	1	.15

NEW
From Wiha

Wiha ESD Safe Protorn Pliers & Cutters

Surface resistance of handles is $10^6 - 10^9$ Ohms

ESD Safe Diagonal Cutters



45823 Protorn ESD Safe 21° Precision Cutters/Flush Cut

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

#45823	mm	Inch	AWG	A	B	C	Pkg.	lbs.
	133	5.25	14/1.6mm	10mm	10mm	2mm	1	.14

ESD Safe Diagonal Cutters



45824 Protorn ESD Safe 45° Precision Cutters/Flush Cut

ESD standard IEC 61340-5-1. C70 special tool steel. Glare free, black finish. ESD Safe handle with non-slip grips.

#45824	mm	Inch	AWG	A	B	C	Pkg.	lbs.
	140	5.5	14/1.6mm	13mm	12mm	2.5mm	1	.16

protorn

NEW
From Wiha

Surface resistance of handles is $10^6 - 10^9$ Ohms



ESD standard IEC 61340-5-1



45890 26 Pc. Set, Protorn ESD Safe Pliers, Precision Slotted & Phillips Screwdrivers, Precision Micro Bit Set & ESD Safe Tweezers

ESD Protorn Pliers glare free, black finish, ESD Safe non-slip soft grips. ESD Safe Precision Slotted & Phillips screwdrivers, CVM tool steel blades. Precision ESD Safe Micro Bit handle holds Micro Bit extension and 4mm Micro bits. Anti-static Tweezer conductive, ESD Safe Hypo allergenic, anti-magnetic stainless.

#45890 26 Piece ESD Safe Pliers, Precision Screwdrivers, Micro Bit Set & ESD Tweezer In Custom Case Includes:

ESD Safe Protorn Strippers, Pliers & Cutters

45810 - 6.5" Wire Stripper 45811 - 6.3" Long Nose Pliers
45813 - 6.0" Bent Nose Pliers 45823 - 5.25" 21° Precision Cutters

ESD Safe Slotted & Phillips Precision Screwdrivers

Slotted: 2.0, 2.5, 3.0mm Phillips: 0, 1

ESD Micro Bit Handle, Micro Bit Extension & 14 Micro Bits 4mm

Hex: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0 Torx: T4, T5, T6, T7, T8, T9, T10

ESD Safe Tweezer: 44532 00 SA ESD - 120mm Heavy Duty Strong, Tapered To Strong Point

Weight: 2.05 lbs.

Wiha Canvas Pouches



91201 Roll-Up Pouch Wiha canvas roll-up pouch has 8 pockets

Item No.	Width Size	Height Size	Weight lbs.	Package pkg.
91201	26.75 x	16.5	.60	1



91205 Belt Pack Pouch

Wiha canvas belt pack pouch holds 3 Pliers & 2 Screwdrivers

Item No.	Width Size	Height Size	Weight lbs.	Package pkg.
91205	5.25 x	9.5	.19	1

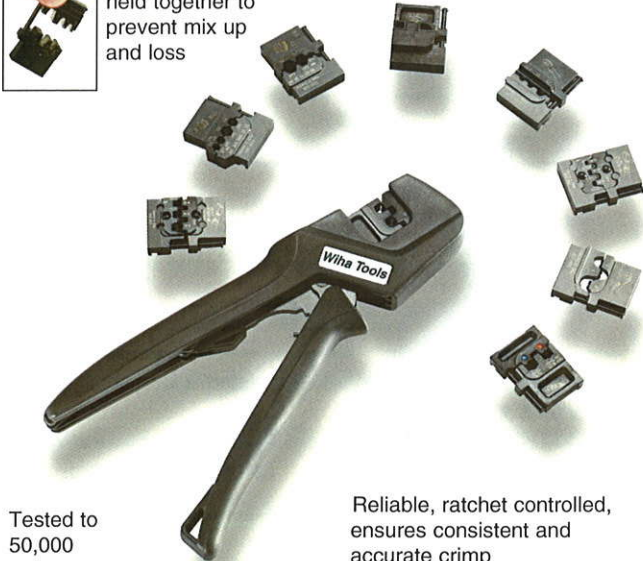
PortaCrimp Dies, Frame & Sets

PortaCrimp Tools



One piece dies - held together to prevent mix up and loss

Parallel action mimics applicator type performance



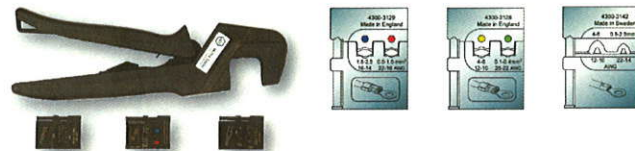
Tested to 50,000 Crimps

Reliable, ratchet controlled, ensures consistent and accurate crimp



- **Top Quality:** 50,000 cycle tested frame for longest life & consistent performance
- **Reliable:** Parallel, full cycle, ratchet controlled action ensures consistent accurate crimps
- **Easy To Use:** Designed to give user full visibility of the crimping process
- **Versatile:** Quickly and easily inter-change crimp dies on the job
- **No More Lost Die Parts!** Practical design uses guide pin to keeps die components together
- **Practical:** Pocket size dies are compact & easy to carry
- **Ergonomic:** Reduced effort ratchet assisted crimping use one hand or two with extended grip
- **Economical:** One tool frame to do the job of many, select only the dies you need

PortaCrimp Tool Sets



43190 4 Piece PortaCrimp Die Set Electrical

Reliable, ratchet controlled, ensures consistent and accurate crimp.

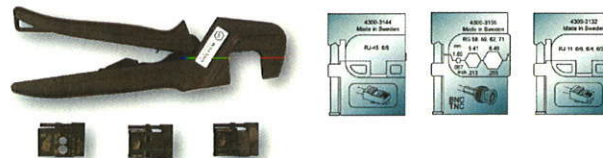
Item No.	Set includes: Tool frame &	lbs.	Pkg.
43190	43129, 43128, 43142	5.0	1



43191 4 Piece PortaCrimp Die Set Industrial

Reliable, ratchet controlled, ensures consistent and accurate crimp.

Item No.	Set includes: Tool Frame &	lbs.	Pkg.
43191	43129, 43127, 43147	5.0	1



43192 4 Piece PortaCrimp Die Set Data Com Telco

Reliable, ratchet controlled, ensures consistent and accurate crimp.

Item No.	Set includes: Tool Frame &	lbs.	Pkg.
43192	43144, 43136, 43132	5.0	1

PortaCrimp Tool Frame



43149 PortaCrimp Tool Frame Parallel action frame gives better performance. Symmetrical pressure with equal force mimics applicator performance. One piece die held together to prevent mix up and loss.

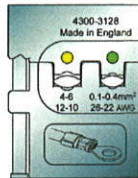
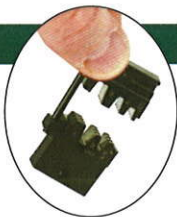
#43149	mm	Inch	lbs.	Pkg.
	234	9.75	1.1	1



Each die includes storage clip

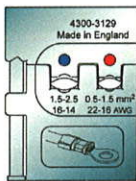
PortaCrimp Dies

One piece die, held together to prevent mix up & loss. Easily interchangeable crimp dies are kept together with a special pin to simplify handling. Reliable crimping performance is consistent and accurate with a parallel action stroke, good to 50,000 cycles.



43128 PortaCrimp Die Set For Green & Yellow Insulated Terminals & Splices

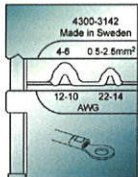
Item No.	Crimps	AWG	lbs.	Pkg.
43128	4-6 & 0.1-0.4mm ²	26-22 & 12-10	1.2	1



43129 PortaCrimp Die Set For Red & Blue Insulated Terminals & Splices

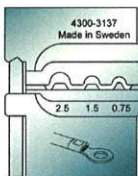
Die set for 22-14 AWG (0.5 - 2.5mm).

Item No.	Crimps	AWG	lbs.	Pkg.
43129	1.5-2.5 & 0.5-1.5mm ²	22-14	1.2	1



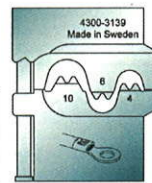
43142 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

Item No.	Crimps	AWG	lbs.	Pkg.
43142	4-6 & 0.5-2.5mm ²	12-10 & 22-14	1.2	1



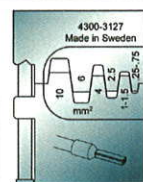
43137 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

Item No.	Crimps	Awg	lbs.	Pkg.
43137	2.5/1.5/0.75mm ²	14/16/20	1.2	1



43139 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

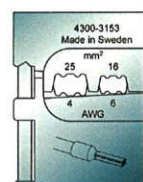
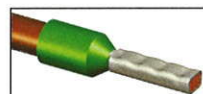
Item No.	Crimps	AWG	lbs.	Pkg.
43139	10/6/4mm ²	8/10/12	1.2	1



43127 PortaCrimp Wire Ferrules - Insulated & Non-Insulated

Die set for 24-8 AWG (0.25-10mm).

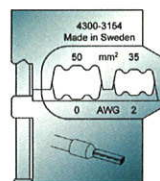
Item No.	Crimps	AWG	lbs.	Pkg.
43127	10/6/4/2.5/1-1.5/25-.75mm ²	8-24	1.2	1



43153 PortaCrimp Wire Ferrules - Insulated & Non-Insulated

Die set for 6-4 AWG (16-25mm).

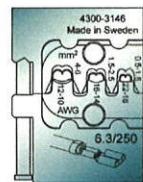
Item No.	Crimps	AWG	lbs.	Pkg.
43153	25 & 16mm ²	6 & 4	1.2	1



43154 PortaCrimp Wire Ferrules - Insulated & Non-Insulated

Die set for 2-1/0 AWG (35-50mm).

Item No.	Crimps	AWG	lbs.	Pkg.
43154	50 & 35mm ²	1/0 & 2	1.2	1



43146 PortaCrimp Open Barrel, Non-Insulated Standard Commercial Terminals & Lugs - .250" (6.3mm) Push On Terminals

Item No.	Crimp	AWG	lbs.	Pkg.
43146	4-6/1.5-2.5/0.5-1.0mm ²	22-10	1.2	1

PortaCrimp Dies



One piece die, held together to prevent mix up & loss. Easily interchangeable crimp dies are kept together with a special pin to simplify handling. Reliable crimping performance is consistent & accurate with a parallel action stroke, good to 50,000 cycles.



43150 PortaCrimp Open Barrel Non-Insulated Push On Terminals DIN 46247-1 .110" (2.8mm) Tab

Item	Crimps	AWG	lbs.	Pkg.
No.				
43150	0.5-1.0/0.25-0.5/0.1-0.25mm ²	26-18	1.2	1



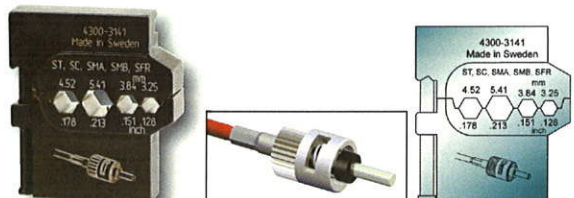
43151 PortaCrimp Open Barrel Non-Insulated Push On Terminals DIN 46247-2 .187" (4.8mm) Tab

Item	Crimps	AWG	lbs.	Pkg.
No.				
43151	1.5-2.5 & 0.5-1.5mm ²	22-14	1.2	1



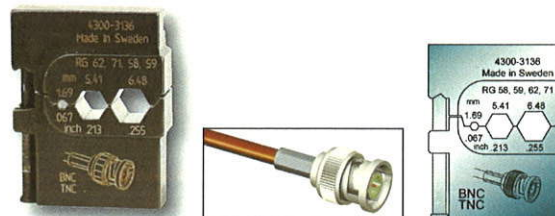
43143 PortaCrimp Weather Pack Open Barrel Terminals

Item	Crimps	AWG	lbs.	Pkg.
No.				
43143	4.0-1.0mm ²	12-20	1.2	1



43141 PortaCrimp Fiber Optic Die set for SMA, SMB, SFR, ST, SC fiber optic connectors (.178"/.213"/.151"/.128" hex)

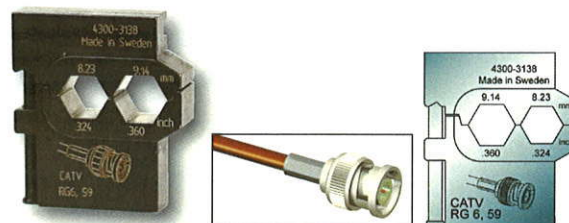
Item	Crimps	lbs.	Pkg.
No.			
43141	4.52/5.41/3.84/3.25mm (.178"/.213"/.151"/.128")	1.2	1



43136 PortaCrimp Coaxial Network & Communications

Die set for RG58, RG59, RG62AU BNC/TNC Coaxial Connectors (.213"/.255"/.068" hex).

Item	Crimps	lbs.	Pkg.
No.			
43136	1.69/5.41/6.48mm (.213"/.255"/.068" hex)	1.2	1



43138 PortaCrimp Coaxial Network & Communications, CATV, HDTV, Video Die set for RG6, Belden 1694A, Twinax BNC, CATV F Coaxial Connectors (.360"/.324" Hex).

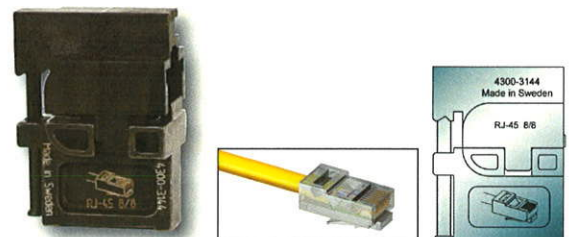
Item	Crimps	lbs.	Pkg.
No.			
43138	9.14 & 8.23mm (.360"/.324")	1.2	1



43140 PortaCrimp Coaxial Network & Communications

Die set for RG174, RG179 BNC/TNC Coaxial Connectors (.178"/.128"/.068" Hex, .028" (0.7mm) Sq).

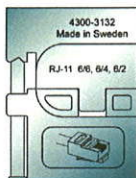
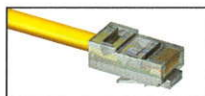
Item	Crimps	lbs.	Pkg.
No.			
43140	4.52/3.25/1.69mm hex 0.7mm sq. (.178"/.128"/.068" hex, .028" sq.)	1.2	1



43144 PortaCrimp Datacom/Telecom Modular Plug

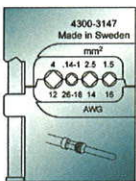
Die set for 8-position 8-contact (RJ45).

Item	Crimps	lbs.	Pkg.
No.			
43144	RJ45	1.2	1



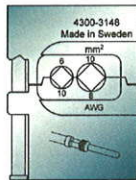
43132 PortaCrimp Datacom/Telecom Modular Plug
Die set for 6-position 6-contact (RJ11).

Item No.			lbs.	Pkg.
43132	RJ11		1.2	1



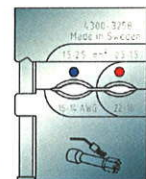
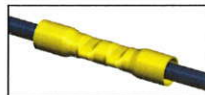
43147 PortaCrimp Power Contacts

Item No.	Crimps	AWG	lbs.	Pkg.
43147	4 / .14-1 / 2.5 / 1.5mm	26-12	1.2	1



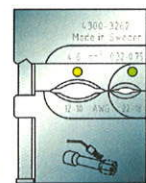
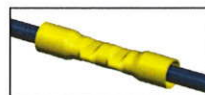
43148 PortaCrimp Power Contacts

Item No.	Crimps	AWG	lbs.	Pkg.
43148	6 & 10mm	10-8	1.2	1



43158 PortaCrimp Die set for heat shrink connectors:
0.5-1.5mm² red & 1.5-2.5mm² blue.

Item No.	Crimps		lbs.	Pkg.
43158	0.5-1.5mm ² (22-16AWG) red		1.2	1
	1.5-2.5mm ² (16-14 AWG) blue			



43162 PortaCrimp Die set for heat shrink connectors:
4-6mm² yellow & 0.32-0.75mm² green.

Item No.	Crimps		lbs.	Pkg.
43162	4-6mm ² (12-10AWG) yellow		1.2	1
	0.32-0.75mm ² (22-18AWG) green			

Professional Crimping Tools



43652 Crimping Tool Frame Parallel action ratchet crimp tool designed to provide the best crimp without compromise on modular plug terminals. Ratchet action to ensure full crimp cycle with safety release.

#43652	mm	Inch	lbs.	Pkg.
	200	7.87		1



43654 Tool Die D-RJ11

Item no.	lbs.	Pkg.
43654	1.0	1
Crimps: 6/6, 6/4 RJ11		



43657 Crimping Tool Die D-RJ45U (universal)

Item no.	lbs.	Pkg.
43657	1.0	1

Crimps: 8/8, 8/6, 8/4, Universal RJ45
(Primary strain relief punch only)



43655 Tool Die D-RJ22

Item no.	lbs.	Pkg.
43655	1.0	1
Crimps: 4/4, 4/2 RJ22		



43658 Crimping Tool Die D-MMJ (DEC)

Item no.	lbs.	Pkg.
43658	1.0	1
Crimps: 6 pos. DEC/6		



43656 Tool Die D-RJ45

Item no.	lbs.	Pkg.
43656	1.0	1
Crimps: 8/8, 8/6, 8/4 RJ45		

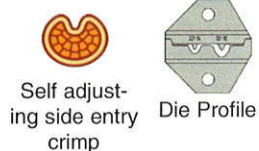
(Primary & secondary strain relief punches)



43659 Tool Die D-10POS

Item no.	lbs.	Pkg.
43659	1.0	1
Crimps: 10 pos.		

Non-Insulated Crimping Tool

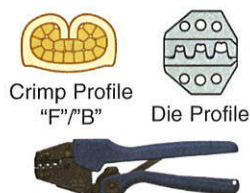


#43632 Non-Insulated Crimping Tool For Non-insulated terminals, lugs, wire splices and solid/standard wires ranging from 0.75 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43632	mm	Inch	AWG	lbs.	Pkg.
	255	10.0	22 - 10 (0.75-6.0mm ²)	1.2	1

50,000 Cycle Rated

Ergonomic UnInsulated Open Barrel Crimping Tool



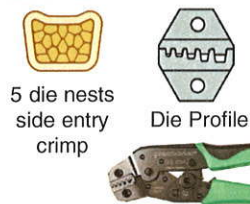
#43622 UnInsulated Ergonomic Open Barrel Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on uninsulated open barrel connectors terminals on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43622	mm	Inch	AWG	lbs.	Pkg.
	255	10.0	22 - 10 (0.5-6.0mm ²)	1.2	1

50,000 Cycle Rated

Ergonomic End Splices/Ferrules Crimping Tool



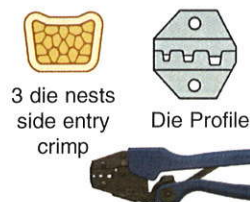
#43611 Insulated & UnInsulated Ergonomic End Splices/Ferrules Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43611	mm	Inch	AWG	lbs.	Pkg.
	212	8.35	20 - 10 (0.5-6.0mm ²)	1.3	1

50,000 Cycle Rated

Ergonomic End Splices/Ferrules Crimping Tool



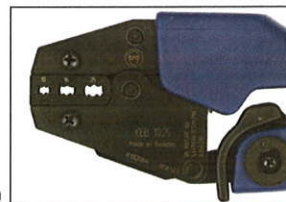
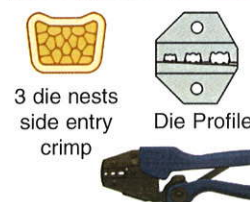
#43619 Insulated & UnInsulated Ergonomic End Splices/Ferrules Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 4.0 - 10.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43619	mm	Inch	AWG	lbs.	Pkg.
	255	10.0	12 - 8 (4.0-10.0mm ²)	1.2	1

50,000 Cycle Rated

Ergonomic End Splices/Ferrules Crimping Tool



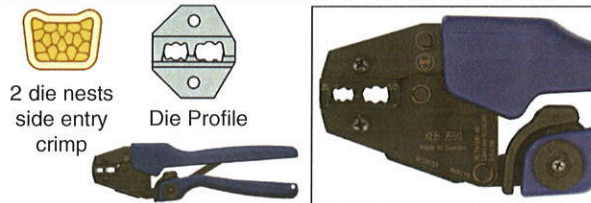
#43620 Insulated & UnInsulated Ergonomic End Splices/Ferrules Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 10.0 - 25.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43620	mm	Inch	AWG	lbs.	Pkg.
	255	10.0	6 - 4 (10.0-25.0mm ²)	1.2	1

50,000 Cycle Rated

Ergonomic End Splices/Ferrules Crimping Tool

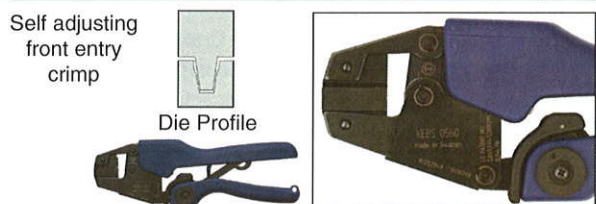


#43621 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 35.0 - 50.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43621	mm	Inch	AWG	lbs.	Pkg.
	255	10.0	2 - 1/0 (35.0-50.0mm ²)	1.2	1

50,000 Cycle Rated

Ergonomic End Splices/Ferrules Crimping Tool

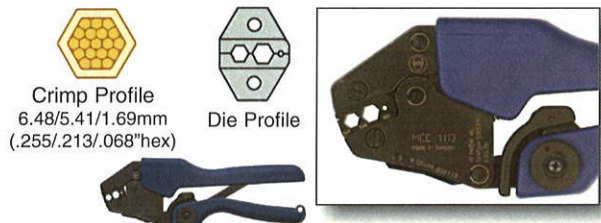


#43653 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43653	mm	Inch	AWG	lbs.	Pkg.
	220	8.66	22 - 10 (0.5-6.0mm ²)	1.0	1

50,000 Cycle Rated

Ergonomic Coaxial Crimping Tool



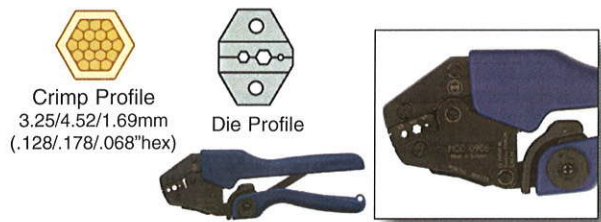
#43614 Ergonomic Coaxial BNC, TNC Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on BNC, TNC coaxial connectors RG58, RG59, RG62, RG71, Thinnet. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43614	mm	Inch	Hex Crimp Dim.	lbs.	Pkg.
	212	8.35	6.48/5.41/1.69mm (.255"/.213"/.068"hex)	1.1	1

50,000 Cycle Rated

Ergonomic Coaxial Crimping Tool



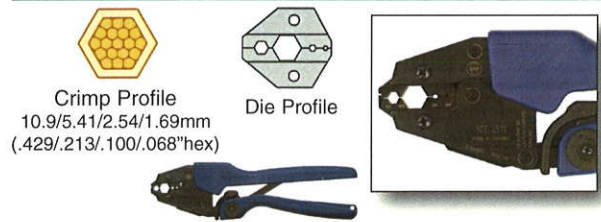
#43613 Ergonomic Coaxial SMA, SMB, SMC Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on SMA, SMB, SMC coaxial connectors RG174, RG179 A/F. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43613	mm	Inch	Hex Crimp Dim.	lbs.	Pkg.
	212	8.35	3.25/4.52/1.69mm (.128"/.178"/.068"hex)	1.1	1

50,000 Cycle Rated

Ergonomic Coaxial Crimping Tool



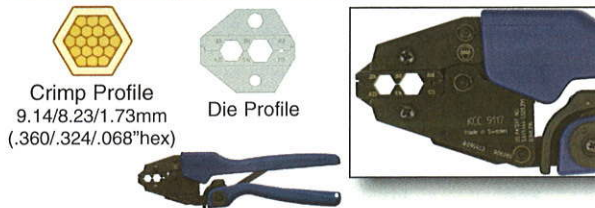
#43628 Ergonomic Coaxial BNC, TNC Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on BNC, TNC coaxial connectors RG58, RG8, RG11, Ethernet, Thinnet. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43628	mm	Inch	Hex Crimp Dim.	lbs.	Pkg.
	261	10.28	5.41/10.9/2.54/1.69mm (.429"/.213"/.100"/.068"hex)	1.2	1

50,000 Cycle Rated

Ergonomic Coaxial Crimping Tool



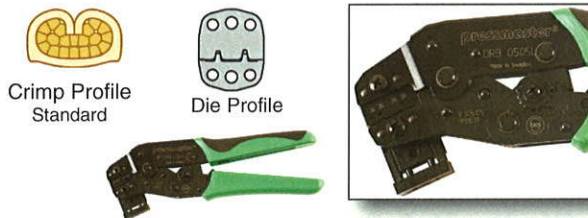
43687 Ergonomic Coaxial Twinax CATV, F Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on Twinax CATV, F coaxial connectors RG6, RG6 Quad, 1695, Twinax. Ratchet action ensures full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43687	mm	Inch	Hex Crimp Dim.	lbs.	Pkg.
	261	10.28	8.23/9.14/1.73mm (.360/.324/.068"hex)	1.2	1

50,000 Cycle Rated

Ergo D Sub UnInsulated/Open Barrel Crimping Tool



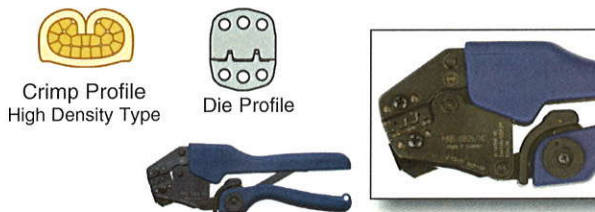
43615 Ergonomic D Sub UnInsulated/Open Barrel Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on UnInsulated/Open Barrel, D Sub wires ranging from 0.05 - 0.5mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43615	mm	Inch	AWG	lbs.	Pkg.
	212	8.35	30 - 20 (0.08-0.5mm ²)	1.1	1

50,000 Cycle Rated

Ergo D Sub UnInsulated/Open Barrel Crimping Tool



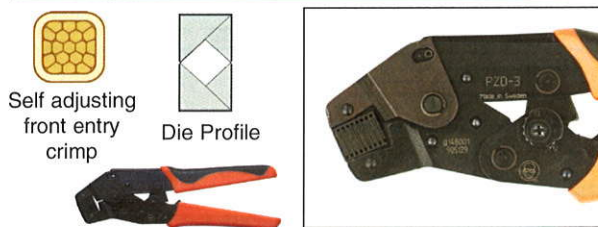
43617 Ergonomic D Sub UnInsulated/Open Barrel Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on UnInsulated/Open Barrel, D Sub wires ranging from 0.08 - 0.5mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#43617	mm	Inch	AWG	lbs.	Pkg.
	212	8.35	28 - 20 (0.08-0.5mm ²)	1.1	1

50,000 Cycle Rated

End Splices/Ferrules Crimping Tool



43647 Insulated & UnInsulated End Splices/Ferrules Crimping Tool

Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 0.5 - 6.0mm². Front entry for easy access within confined spaces. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance. Two component comfort grip handle.

#43647	mm	Inch	AWG	lbs.	Pkg.
	197	7.75	22 - 10 (0.5-6.0mm ²)	.82	1

50,000 Cycle Rated

Soft Grip Crimping Pliers



326 Crimping Pliers DIN ISO 5743

Semi-circular profiles for secure connection between end sleeve and conductor. Long life is achieved through additional induction hardening to 64 HRC. CV 60 special tool steel hardened & tempered. Soft vinyl grips.

Item No.		mm	Inch	mm ²	Pkg.	wt.
32604	Z14560001	145	5.75	0.25-2.5	1	.29
32605	Z18060001	180	7.0	0.25-16	1	.57

(See other soft vinyl grip pliers & cutters on pages 16-22)



Automatic Stripping Tool



Interchangeable stripping blade cassettes



Cuts & strips up to 10mm²/8 AWG - Strips PVC, THHW, TEFLON insulations



Ergonomic design with non-slip two component handles

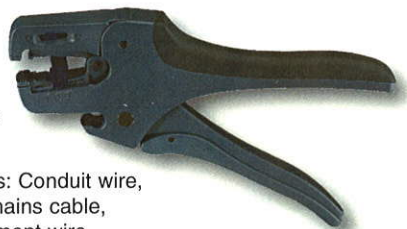


Easy/snag free wire removal from tool - jaws stay open after strip

Self Adjusting Cut & Strip Tool



Straight Blade Cassette Stripping Range
0.02 - 10.0mm²



Cables: Conduit wire, Flex mains cable, Equipment wire, Flat modplug cable etc.

34-8 AWG

44212 Self Adjusting Cutting & Stripping Tool

Easily interchangeable stripping cassettes enables a wide range of insulations from PVC to PTFE. Light weight soft grip handle qualified for high volume production and portable/field usage.

#44212	mm	Inch	AWG	Strip Dim.	lbs.	Pkg.
	191	7.5	34 - 8	0.02-10mm²	.30	1

Replaceable Cassette - Straight Blade



Straight Blade Cassette Stripping Range
0.02 - 10.0mm²



34-8 AWG

Straight

44214 Straight Blade Cassette, PVC Insulations

Fine adjustability ensures that thin insulations can be stripped without damage to conductors. At the end of the stripping function, the stripping blades open and remain open during the return phase of the strip cycle facilitating easy/snag free wire removal from the tool.

#44214	AWG	Strip Range	lbs.	Pkg.
	34 - 8	0.02-10mm²	.02	1

Replaceable Cassette - 4-16mm²



Stripping Range
4-16mm²



10-5 AWG

Radius Blade

44269 Replaceable Cassette, 4-16mm Stripping Range

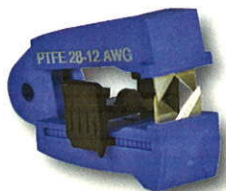
Fine adjustability ensures that thin insulations can be stripped without damage to conductors. At the end of the stripping function, the stripping blades open and remain open during the return phase of the strip cycle facilitating easy/snag free wire removal from the tool.

#44269	AWG	Strip Range	lbs.	Pkg.
	10 - 5	4-16mm²	.02	1

Replaceable Cassette - "V" Blade



"V" Blade Stripping Range
0.1 - 4mm²



28-12 AWG

VBC for PTFE

44213 Replaceable VBC or PTFE Cassette, "V" Blade

Fine adjustability ensures that thin insulations can be stripped without damage to conductors. At the end of the stripping function, the stripping blades open and remain open during the return phase of the strip cycle facilitating easy/snag free wire removal from the tool.

#44213	AWG	Strip Range	lbs.	Pkg.
	28 - 12	0.1-4mm²	.02	1

Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page	Item No.	Page
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29240	7	32639	15	32708	31	32891	8	43128	40	45810	36
29250	6	32642	15	32710	31	32969	27	43129	40	45811	36
30901	24	32645	13	32711	31	32917	10	43132	42	45812	36
30903	24	32646	15	32712	31	32923	10	43136	41	45813	37
30905	24	32648	16	32714	32	32926	10	43137	40	45814	37
30907	24	32649	15	32716	32	32927	10	43138	41	45820	37
30909	24	32652	15	32718	32	32929	10	43139	40	45821	37
30911	25	32653	17	32720	32	32930	10	43140	41	45822	37
30912	24	32654	18	32721	32	32933	10	43141	41	45823	38
30913	25	32655	17	32722	33	32945	10	43142	40	45824	38
30915	25	32656	18	32724	33	32947	10	43143	41	45890	38
30917	25	32657	16	32726	33	32970	22	43144	41	56801	29
30919	25	32658	16	32728	33	32971	22	43146	40	56812	28
30921	25	32659	16	32732	34	32972	22	43147	42	56813	29
30923	26	32660	14	32734	34	32974	22	43148	42	56815	28
30925	26	32661	14	32742	34	32975	22	43149	39	56818	28
30926	26	32662	18	32744	34	32976	22	43150	41	56825	28
30927	26	32663	14	32746	34	32978	22	43151	41	56830	29
30928	26	32664	14	32748	35	32979	22	43153	40	56833	29
30929	26	32665	14	32750	35	32980	22	43154	40	56871	25,29
30931	26	32666	18	32752	35	32981	11	43158	42	57872	15
30933	26	32667	14	32790	35	32983	11	43162	42	76208	9
30937	26	32668	14	32791	35	32984	11	43190	39	76210	9
30943	26	32669	14	32793	33	32985	11	43191	39	76212	9
30947	24	32670	14	32804	6	32986	11	43192	39	76215	9
30990	27	32671	16	32806	6	32987	11	43611	43	76290	9
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32602	15	32681	18	32818	4	34610	20	43618	23		
32603	12	32682	18	32820	4	34611	20	43619	43		
32604	15,45	32683	18	32821	4	34612	20	43620	43		
32605	15,45	32684	18	32826	5	34613	20	43621	44		
32606	12	32685	18	32828	5	34614	20	43622	43		
32608	17	32686	18	32830	5	34615	20	43624	23		
32609	12	32687	18	32832	5	34616	20	43628	44		
32610	16	32688	18	32834	5	34617	20	43632	43		
32611	16	32689	18	32835	5	34618	21	43643	23		
32612	12	32690	18	32836	5	34619	21	43647	45		
32615	12	32691	18	32838	5	34620	21	43652	42		
32616	12	32692	18	32841	4	34621	21	43653	44		
32618	13	32693	19	32850	8	34622	21	43654	42		
32621	13	32694	18	32852	8	34623	21	43655	42		
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32626	19	32697	18	32860	5	34626	21	43658	42		
32627	19	32698	16	32861	5	34627	21	43659	42		
32628	19	32702	30	32870	6	34651	21	43687	45		
32629	19	32703	30	32871	7	34652	21	44212	46		
32630	13	32704	30	32872	7	34653	21	44213	46		
32633	13	32705	30	32873	7	34654	21	44214	46		

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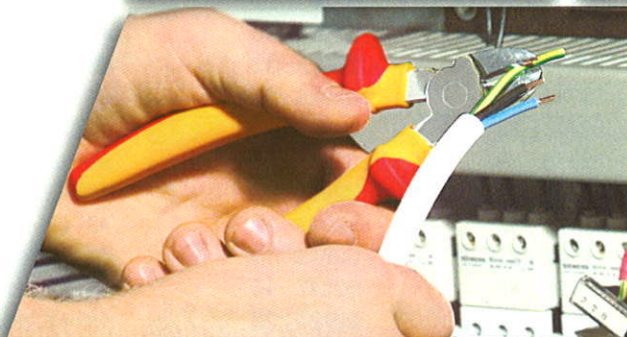
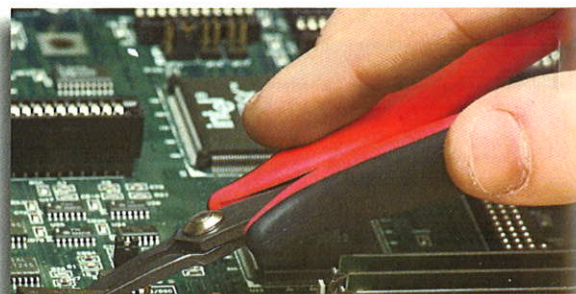
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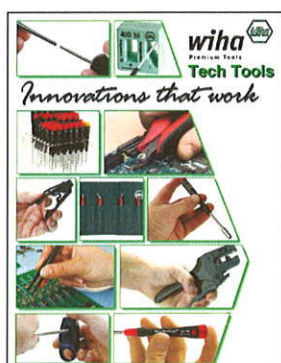
To:



99060.wo - Product Guide



99004.wo - Shop Tools Catalog



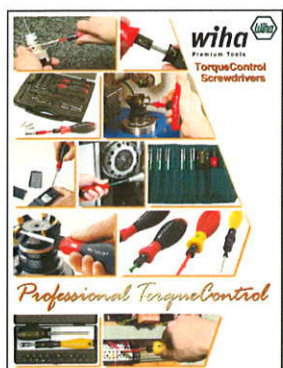
99006.wo - Tech Tools Catalog



99002.wo - Screwdrivers Catalog



99951.wo - Bits Catalog



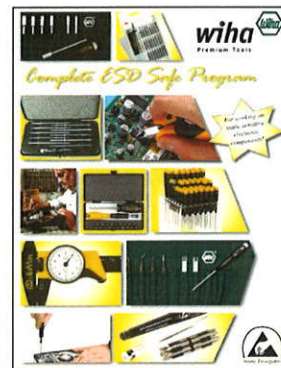
99001.wo - TorqueControl Catalog



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99919.wo - Insulated Catalog



99945.wo - ESD Catalog



99914.wo - TORX Catalog