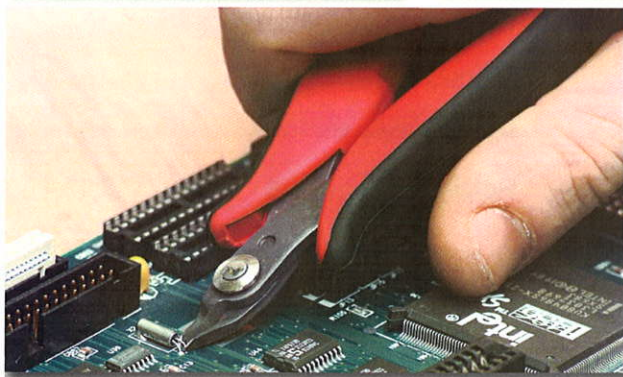
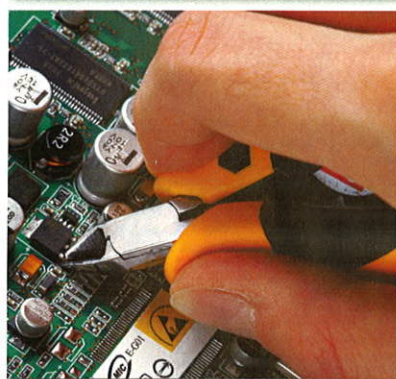
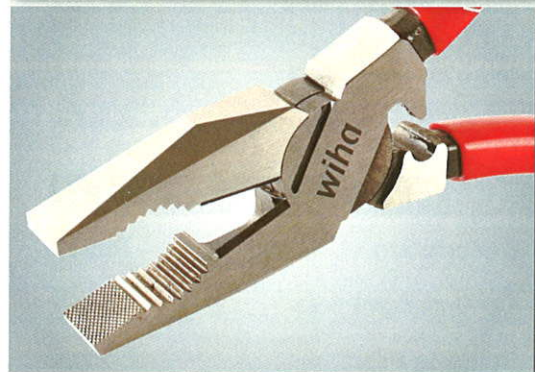




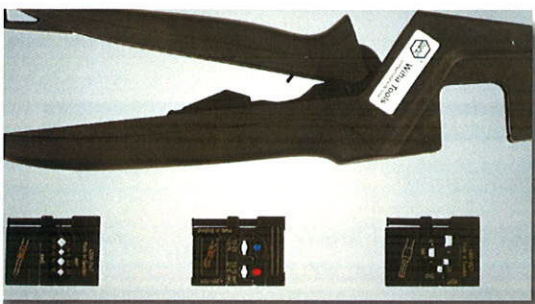
wiha

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	
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	
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	
32820	Z02022506	225	9.0	#4	1 .86

Insulated Crimping Pliers



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	
32841		180	7.0	0.25-2.5	6-30	1 .57

Insulated Electrician's Diagonal Cutters



 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

Insulated Diagonal Cutters



 1000volt

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

Insulated High Leverage Diagonal Cutters



 1000volt

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


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

Insulated Serrated Edge Cable Cutters



 1000volt

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

Insulated Stripping Pliers

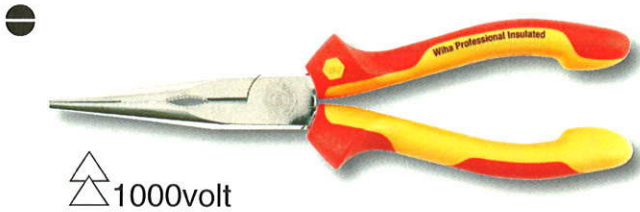


 1000volt

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.	Length		Cutting Capacity		Pkg.	lbs.
	mm	Inch	Copper AWG			
32806 Z05016006	160	6.3	#10		1	.32
32808 Z05020006	200	8.0	#8		1	.42

Insulated Bent Nose Pliers



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.	Length		Cutting Capacity		Pkg.	lbs.
	mm	Inch	Copper AWG			
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.	Length		Pkg.	lbs.
	mm	Inch		
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.	Length		Pkg.	lbs.
	mm	Inch		
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



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



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	↔	↔
No.	mm	Inch	Inch	lbs.	pkg.
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	↔	↔
No.	mm	Inch	Inch	lbs.	pkg.
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	↔	↔
No.	Size	Size	lbs.	pkg.
91256	3.5 x	6.75	.15	1

Wiha Insulated Belt Pack Pouch Sets

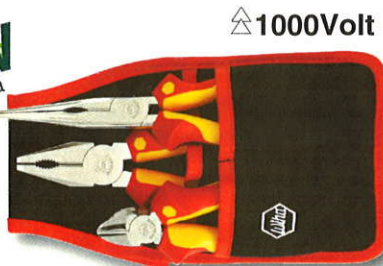


1000Volt



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
lbs.	Set Includes Bit Holder & The Following Bits:
1.67	Slotted: 4.5, 6.5mm Phillips: 1, 2 Square: 1, 2



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
lbs. 2.07	8.0" / 200mm Combination Pliers



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
lbs.	Insulated Screwdrivers:
1.77	Slotted: 3.0, 4.5mm Phillips: 2

Wiha Insulated Pliers and Cutters Sets



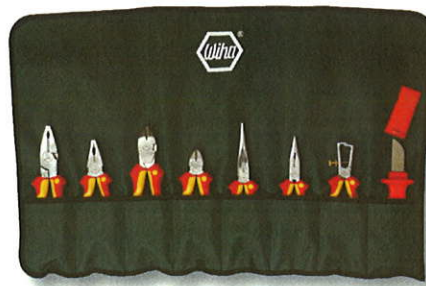
- Pliers drop-forged from special tool steel, individually high frequency induction hardened, chrome and nickel plated, mirror-polished.

- In zipper carry case

△ 1000volt

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



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

△ 1000volt

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



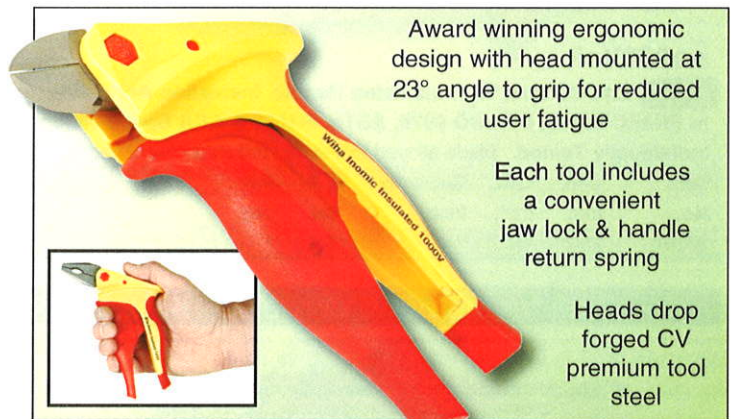
△ 1000volt

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

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

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

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



 **1000Volt**

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	Weight lbs.	Pkg.
76208	8.0	200	1"	.7	1

Wiha Insulated 10" Adjustable Wrench



 **1000Volt**

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	Weight lbs.	Pkg.
76210	10.0	250	1-1/4"	1.4	1

Wiha Insulated 12" Adjustable Wrench



 **1000Volt**

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	Weight lbs.	Pkg.
76212	12.0	300	1-1/2"	1.9	1

Wiha Insulated 15" Adjustable Wrench



 **1000Volt**

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	Weight lbs.	Pkg.
76215	15.0	380	1-11/16"	2.8	1


Wiha Insulated Adjustable Wrench Set

 **1000Volt**



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:	 lbs. 4.15
76208 - 8" OAL	76212 - 12" OAL
76210 - 10" OAL	

Insulated Industrial Pliers & Cutters

10,000 Volt tested
1000 Volt Rated

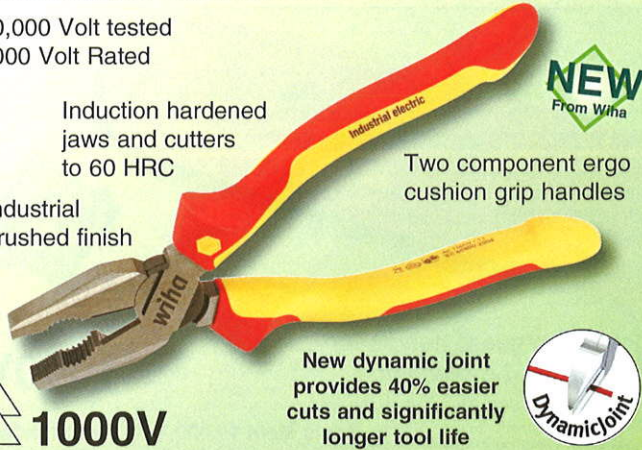
Induction hardened jaws and cutters to 60 HRC

Industrial brushed finish

Two component ergo cushion grip handles

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

 **1000V**



Insulated Combo Pliers With Dynamic Joint


NEW
From Wiha



 **1000volt**



Long life high performance dynamic 60/40 joint

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 Lineman's Pliers With Crimpers


NEW
From Wiha



 **1000volt**



Long life high performance dynamic 60/40 joint

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 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	mm ²	Pkg.	lbs.
32927	200	8.0	20	60	1	.78

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 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 Diagonal Cutters


NEW
From Wiha



 **1000volt**



Long life high performance dynamic 60/40 joint

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 Crimpers

NEW
From Wiha



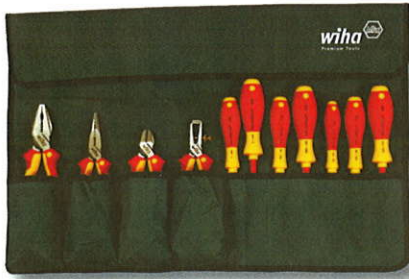
 **1000volt**

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	mm ²	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

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

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



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

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

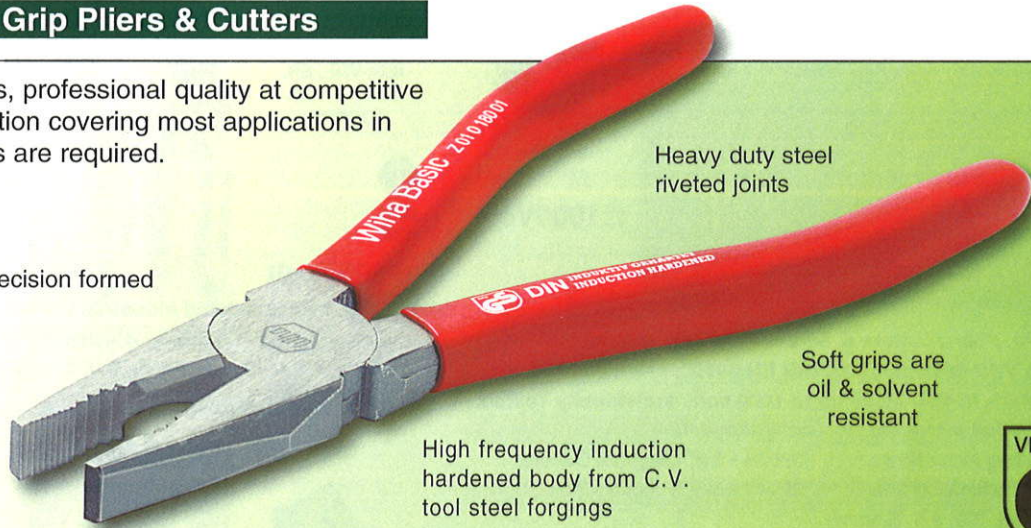


Wiha Soft Grip Pliers & Cutters

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.	Length		Cutting Capacity		Pkg.	lbs.
	mm	Inch	Copper AWG			
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.	Length		Cutting Capacity		Pkg.	lbs.
	mm	Inch	Copper AWG			
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.	Length		Pkg.	lbs.
	mm	Inch		
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.	Length		Pkg.	lbs.
	mm	Inch		
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.	Length		Stripping Capacity		Pkg.	lbs.
	mm	Inch	Copper Awg#			
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.		↔		↔		Capacities		Pkg.	lbs.
		mm	Inch	Round	Hex				
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.		↔		↔		Capacities		Pkg.	lbs.
		mm	Inch	Round	Hex				
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.		↔		↔		Capacities		Pkg.	lbs.
		mm	Inch	Round	Hex				
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.		↔	↔	Cutting Capacity Copper AWG	🔪	🔪
		mm	Inch		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.		↔	↔	Cutting Capacity Copper AWG	🔪	🔪
		mm	Inch		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.		↔	↔	Cutting Capacity Copper/Aluminum	🔪	🔪
		mm	Inch		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 ²	AWG	🔪	🔪
		mm	Inch			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 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		
32610	145	5.75	1	.05

32611 SoftGrip Electrician's & Craftsman Shears

Item No.	mm	Inch		
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.			Cutting Capacity Copper AWG		
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.				
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.			Cutting Capacity Hard Wire AWG		
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



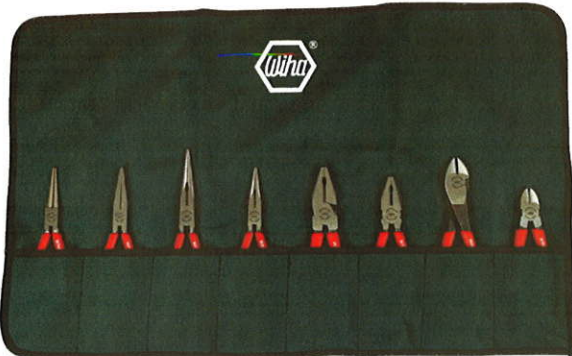
Durable Canvas Belt Pack Pouch



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




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.

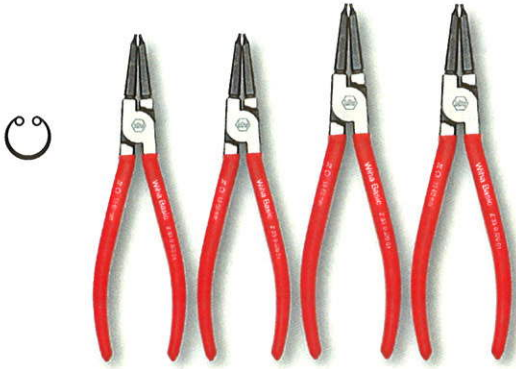
Item No.	mm	Inch	Inch	mm	Tip Inch/mm	Pkg.	lbs.
32694	139	5.5	1/8-3/8	3-10	.035/.9	1	.28
32695	140	5.5	3/8-1	10-25	.050/1.3	1	.28
32696	180	7.0	3/4-2 3/8	19-60	.070/1.5	1	.44
32697	225	8.9	1 1/2-4	40-100	.090/2.3	1	.63
32666	310	12.2	3.5-5.5	85-140	.126/3.2	1	1.16

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:	↔ lbs. 3.65
Internal Retaining Ring - Shape C	External Retaining Ring - Shape A
32681 5/16-1/2" / 8-13mm / tip .035	32689 1/8 - 3/8" / 3-10mm / tip .035
32682 1/2-1" / 12-25mm / tip .050	32690 3/8 - 1" / 10-25mm / tip .050
32683 3/4-2-3/8" / 19-60mm / tip .070	32691 3/4 - 2-3/8" / 19-60mm / tip .070
32684 1-1/2-4" / 40-100mm / tip .090	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

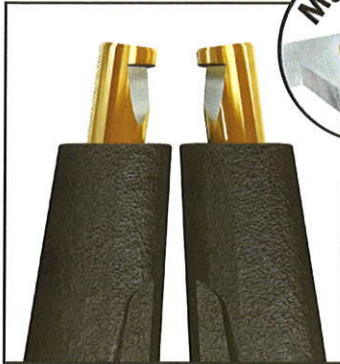
32629 4 Piece 90° Angle External Ring Pliers Set Shape B, 90° angled tips. Die forged cylindrical precision formed. CV special tool steel. For fitting & removing external retaining rings. Soft vinyl grips.

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.		↔	↔	⊙	⊙	● Tip	⊞	↔
		mm	Inch	Inch	mm	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.		↔	↔	⊙	⊙	● Tip	⊞	↔
		mm	Inch	Inch	mm	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



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.

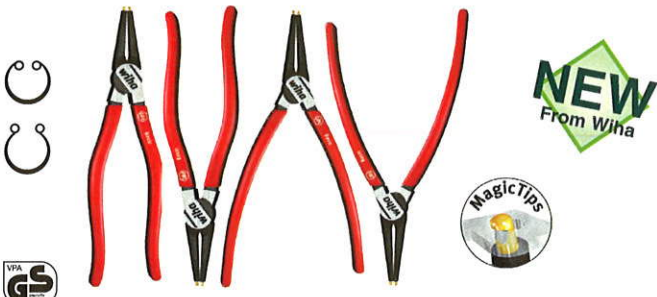
Item No.		↔	↔	⊙	⊙	● Tip	↔	↔
		mm	Inch	Inch	mm	Inch/mm	Pkg.	lbs.
34618	Z344A0001	140	5.5	1/8-3/8	3-10	.035/.9	1	.20
34619	Z344A1001	140	5.5	3/8-1	10-25	.050/1.3	1	.20
34620	Z344A2001	185	7.3	3/4-2 3/8	19-60	.070/1.5	1	.34
34621	Z344A3001	240	9.5	1 1/2-4	40-100	.090/2.3	1	.57
34622	Z344A4001	300	11.8	3.5-5.5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

MagicTip 90° Angle Safety Ring Pliers - External



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.

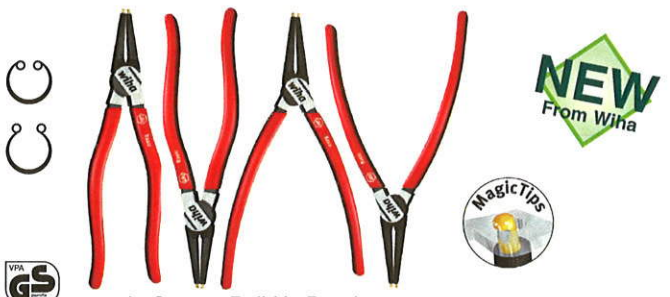
Item No.		↔	↔	⊙	⊙	● Tip	↔	↔
		mm	Inch	Inch	mm	Inch/mm	Pkg.	lbs.
34623	Z345A0101	140	5.5	1/8-3/8	3-10	.035/.9	1	.20
34624	Z345A1101	140	5.5	3/8-1	10-25	.050/1.3	1	.20
34625	Z345A2101	185	7.3	3/4-2 3/8	19-60	.070/1.5	1	.34
34626	Z345A3101	240	9.5	1 1/2-4	40-100	.090/2.3	1	.57
34627	Z345A4101	300	11.8	3.5-5.5	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.
34609	1/2-1" / 12-25mm / tip .050	34619	3/8-1" / 10-25mm / tip .050	1.54
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.
34608	5/16-1/2" / 8-13mm / tip .035	34618	1/8-3/8" / 3-10mm / tip .035	1.54
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.
34609	1/2-1" / 12-25mm / tip .050	34619	3/8-1" / 10-25mm / tip .050	1.27
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.
34613	5/16-1/2" / 8-13mm / tip .035	34623	1/8-3/8" / 3-10mm / tip .035	1.54
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

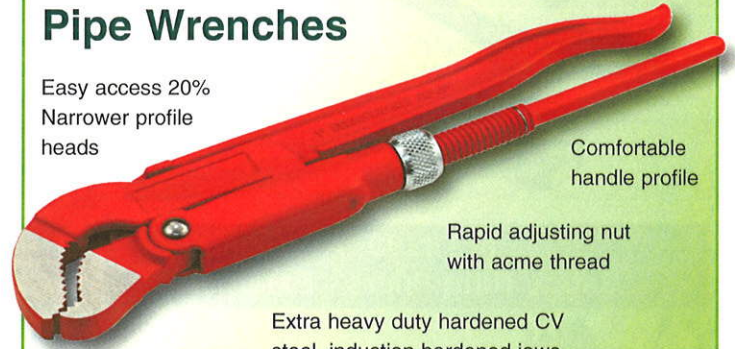


329 Pipe Wrenches Narrow Style / S-Jaw

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.	Clamping range	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



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	Weight lbs.	Pkg.
43612	Z62000106	220mm/8.6"	26-8	1.18 1

Ratchet Crimper Push On Terminals



Crimp Profile
"F"/"B"

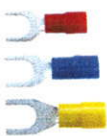


43624 Ratchet Crimper Push On Terminals

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	Weight lbs.	Pkg.
43624	Z62000306	220mm/8.6"	22-10	1.06 1

Ratchet Crimper For Standard Connectors



Crimp Profile



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	Weight lbs.	Pkg.
43618	Z62000206	220mm/8.6"	20-10	1.06 1

Ratchet Crimper For Eye Terminals



Self adjusting
side entry crimp



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	Weight 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.



Ergonomic shape for maximum user comfort

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

Induction hardened cutters

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.		↔	↔	Cutting Capacity	📦	⚖️
		mm	Inch	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.		↔	↔	Cutting Capacity	📦	⚖️
		mm	Inch	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.		↔	↔	Cutting Capacity	📦	⚖️
		mm	Inch	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.		↔	↔	Stripping Capacity	📦	⚖️
		mm	Inch	Copper AWG	Pkg.	lbs.
30947	Z55002160	160	6.3	#4 - #28	1	.48

Wiha Industrial SoftGrip Pliers & Cutters

Industrial SoftGrip Long Nose Pliers



NEW
From Wiha

Industrial SoftGrip Bent Long Nose Pliers

Angled approx. 40°



NEW
From Wiha

Industrial SoftGrip Flat Nose Pliers



NEW
From Wiha

Industrial SoftGrip Long Round Nose Pliers



NEW
From Wiha

Stripping Pliers



NEW
From Wiha

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

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

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	Cutting Capacity	
			Pkg.	lbs.
30919	Z07002160	160	6.3	1 .43

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	Cutting Capacity	
			Pkg.	lbs.
30921	Z09002160	160	6.3	1 .39

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	Cutting Capacity	
					Pkg.	lbs.
	180	7.0	0.81-2.59	20-10	5	.15

Wiha Industrial SoftGrip Pliers & Cutters

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

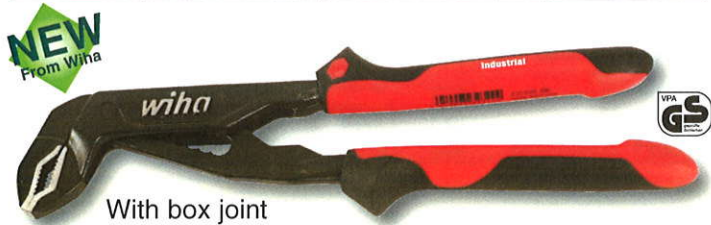


309 Industrial Cable Cutters DIN ISO 5749

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

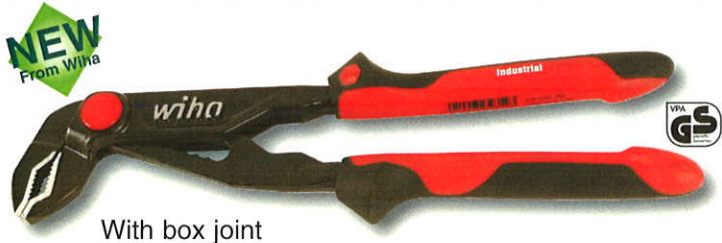


30937 Industrial Adjustable Pliers DIN ISO 8976

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		Pkg.	lbs.
				Round	Hex		
30937	Z21002250	250	10.0	1 3/4"	2"	1	.94

Industrial SoftGrip Push Button Adj. Pliers



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		Pkg.	lbs.
				Round	Hex		
30943	Z22025005	250	10.0	1 3/4"	2"	1	.95

Made by Wiha

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		Pkg.		
	mm	Inch	Round	Hex	
32969	Z23025005	250	10.0	1 1/4" 1 1/2"	1 .80

Industrial SoftGrip Pliers & Cutters Sets



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



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



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



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

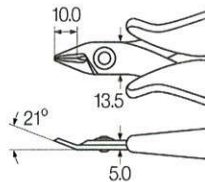


Velvet soft ergonomically designed multi component handle

Lay-on, riveted precision joint

Light weight design for maximum user comfort in production work

Electronic Diagonal Cutters

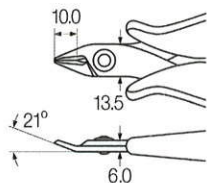


Full Flush

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

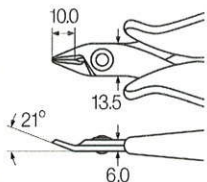


Semi Flush

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

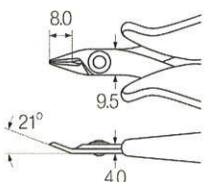


Full Flush

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

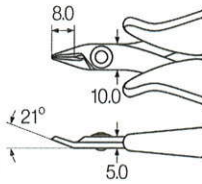
56812 Precision Electronic Diagonal Cutters, Narrow Shape Extra narrow, short head for working in particularly restricted spaces. Cutting edge - full flush. With return spring. C70 special tool steel. For absolutely flush cutting of copper wires in difficult to access locations.

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

Electronic Diagonal Cutters



Wire Holding Spring

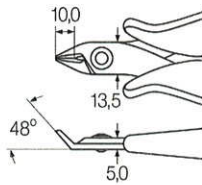


Full Flush

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



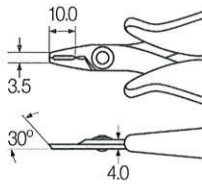
Full Flush

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



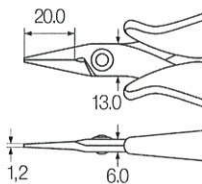
Full Flush

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

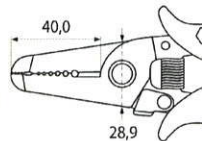


56801 Electronic Short Nose Precision Pliers

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



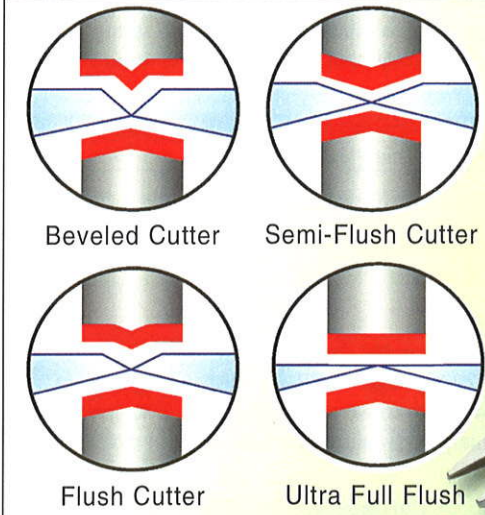
56871 Electronic Stripping Pliers

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

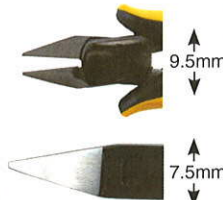
Welded double leaf spring

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



Precision Cutters Tapered Head

Semi Flush



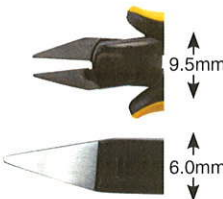
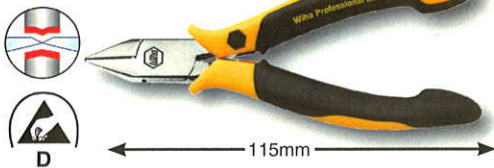
32703 Precision Cutters, Small Tapered Head, Semi Flush

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 Wdth	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Precision Cutters Tapered Head

Flush



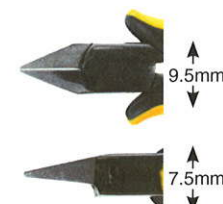
32705 Precision Cutters, Small Tapered Head, Flush

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 Wdth	Pkg.	lbs.
	115	4.5	1.0	9.5mm	1	.19

Precision Cutters Tapered Head

Semi Flush



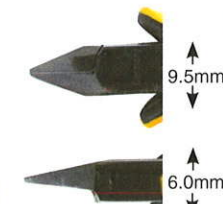
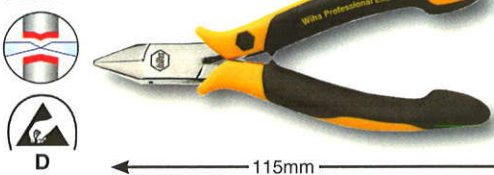
32702 Precision Cutters, Small Tapered Head With Hollow Ground Back, Semi Flush

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 Wdth	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

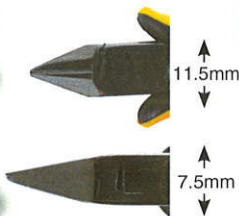
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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

Wiha ESD Safe Pliers & Cutters

Precision Cutters Wide Tapered Head

Bevel

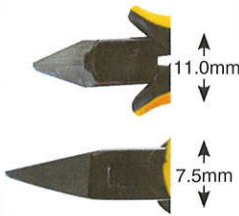


#32706 Precision Cutters, Wide Tapered Head, Bevel
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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

Precision Cutters Wide Tapered Head

Flush

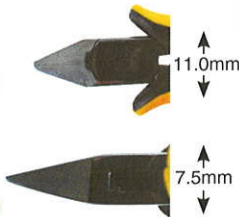


#32708 Precision Cutters, Wide Tapered Head, Flush
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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

Precision Cutters Wide Tapered Head

Full Flush

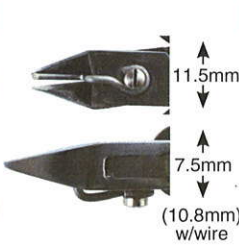


#32710 Precision Cutters, Wide Tapered Head, Full Flush
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

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

Precision Cutters Wide Tapered Head

Flush

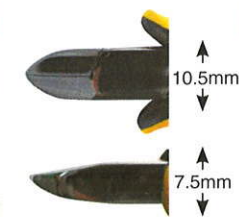
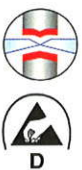


#32711 Precision Cutters, Wide Tapered Head With Wire Trapping Device, Flush
Cutters drop-forged for an ideal material structure. Precise aligned cutting edges are additionally induction hardened at a hardness of Approx. 64°HRC. Two component non-slip soft grip handle, ESD Safe Dissipative. ESD standard IEC 61340-5-1

#32711	mm	Inch	Copper	Head Wdth	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 Wdth	Pkg.	lbs.
	115	4.5	1.0	10.5mm	1	.23

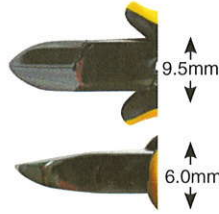
Wiha ESD Safe Pliers & Cutters

Precision Cutters Slim Oval Form

Full Flush



115mm



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

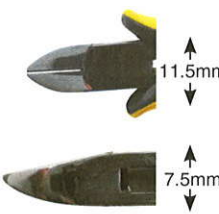
#32714	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.0	10.0mm	1	.23

Precision Cutters Slim Oval Form

Bevel



115mm



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

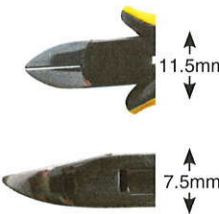
#32716	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.4	11.0mm	1	.19

Precision Cutters Wide Oval Form

Flush



115mm



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

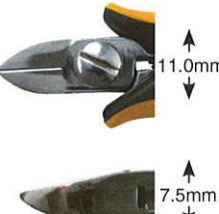
#32720	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.19

Precision Cutters Wide Oval Form And Carbide Edge

Bevel



110mm



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

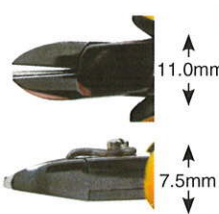
#32718	mm	Inch	Copper	Head Wdth	Pkg.	lbs.
	110	4 3/8	1.6	11.0mm	1	.20

Precision Cutters Wide Oval Form

Flush



115mm



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 Wdth	Pkg.	lbs.
	115	4.5	1.2	11.0mm	1	.23

Wiha ESD Safe Pliers & Cutters

Oblique Angled Cutters

Flush



D



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



D



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



D



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



D



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



D



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

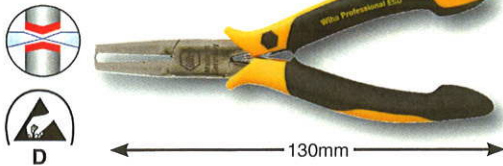
27220 Slotted 2.0mm	27305 Phillips #00
27225 Slotted 2.5mm	27310 Phillips #0
27230 Slotted 3.0mm	27320 Phillips #1
27235 Slotted 3.5mm	

↕ lbs. 2.43

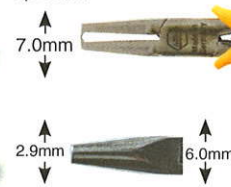
Wiha ESD Safe Pliers & Cutters

End Cutters Extra Slim

Semi Flush



Tip Width



#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



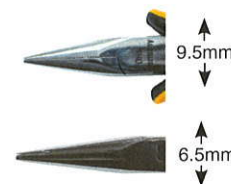
#32734 End Cutters, Wide Head, Flush

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



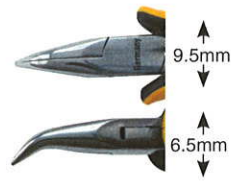
#32742 ESD Safe Pliers, Short Snipe Nose (Chain Nose) Straight, Serrated Jaws

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°



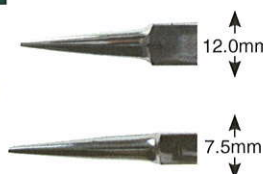
#32744 ESD Safe Pliers, Snipe Nose (Chain Nose) Bent 45°, Smooth Jaws

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



#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°



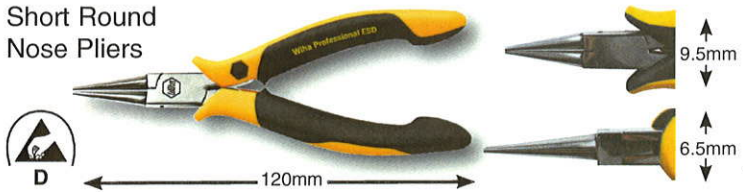
32748 ESD Safe Pliers, Needle Nose Pliers, Bent 90°, Smooth Jaws

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
- 32746 5.75" Long Nose Pliers
- 32752 4.75" Flat 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
- 32746 5.75" Long Nose Pliers
- 32752 4.75" Flat 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

protturn

NEW
From Wiha

Glare free
black finish



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

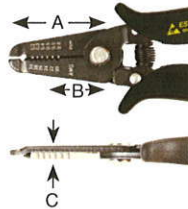
Hardened steel
return spring

ESD standard
IEC 61340-5-1



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

ESD Safe Wire Stripper

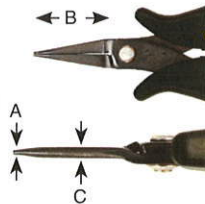


45810 Protturn ESD Safe Wire Stripper

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

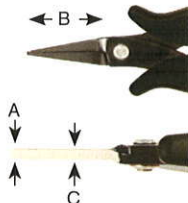


45811 Protturn ESD Safe Long Nose Pliers

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



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.

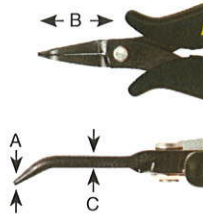
#45812	mm	Inch	A	B	C	Pkg.	lbs.
	160	6.3	2mm	32mm	3mm	1	.18

Wiha ESD Safe Protturn Pliers & Cutters

Surface resistance of handles is 10⁶ - 10⁹ Ohms



ESD Safe Bent Nose Pliers

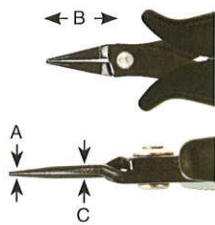
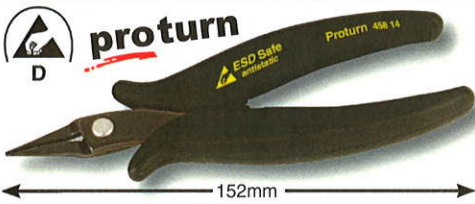


45813 Protturn ESD Safe Bent Nose Pliers

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

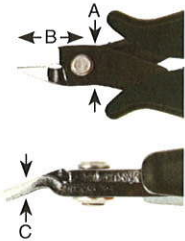


45814 Protturn ESD Safe Round Nose Pliers

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

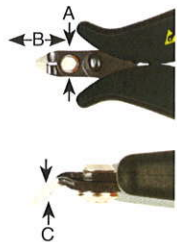


45820 Protturn ESD Safe 21° Precision Cutters/Flush Cut

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

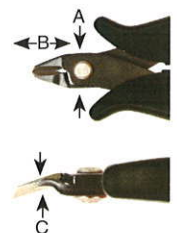


45821 Protturn ESD Safe 45° Precision Cutters/Flush Cut

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

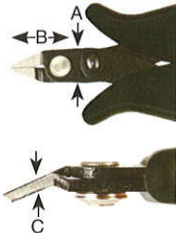


NEW
From Wiha

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

lbs. 2.05

Wiha Canvas Pouches



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

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

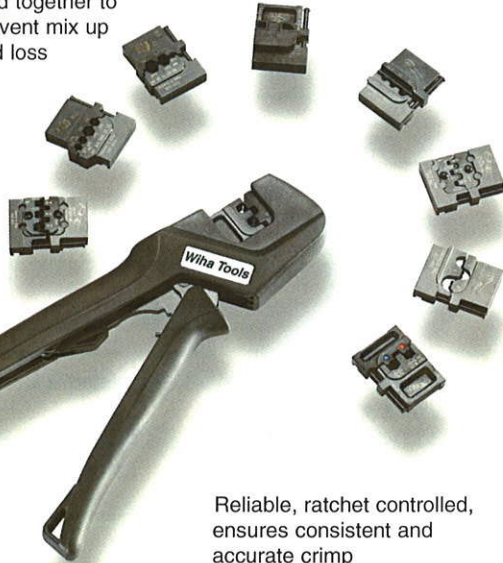
PortaCrimp Dies, Frame & Sets

PortaCrimp Tools

Parallel action mimics applicator type performance



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



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.

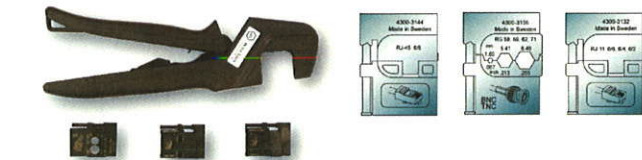
Item No.	Set includes: Tool frame &	lbs.	Pkg.
43190	43129, 43128, 43142	5.0	1



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.

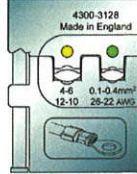
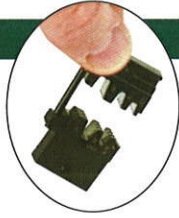
#43149	mm	Inch	lbs.	Pkg.
	234	9.75	1.1	1



Each die includes storage clip

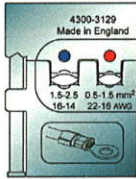
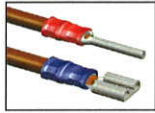
PortaCrimp Dies

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.



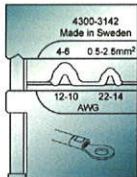
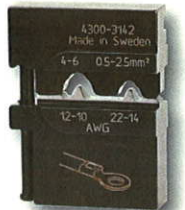
43128 PortaCrimp Die Set For Green & Yellow Insulated Terminals & Splices

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



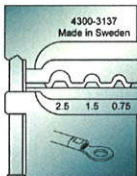
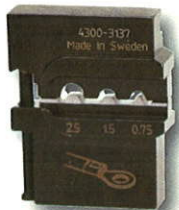
43129 PortaCrimp Die Set For Red & Blue Insulated Terminals & Splices Die set for 22-14 AWG (0.5 - 2.5mm).

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



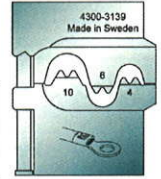
43142 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

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



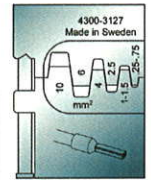
43137 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

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



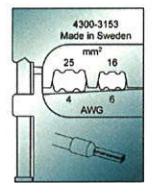
43139 PortaCrimp Die Set For Non-Insulated Terminals, Lugs & Splices

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



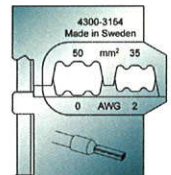
43127 PortaCrimp Wire Ferrules - Insulated & Non-Insulated Die set for 24-8 AWG (0.25-10mm).

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



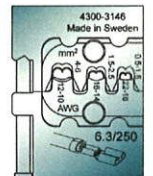
43153 PortaCrimp Wire Ferrules - Insulated & Non-Insulated Die set for 6-4 AWG (16-25mm).

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.
43150	0.5-1.0/0.25-0.5/0.1-0.25mm ²	26-18	1.2	1



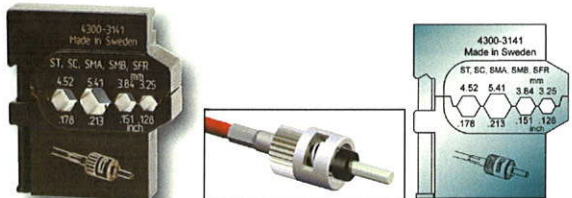
43151 PortaCrimp Open Barrel Non-Insulated Push On Terminals DIN 46247-2 .187" (4.8mm) Tab

Item	Crimps	AWG	lbs.	Pkg.
43151	1.5-2.5 & 0.5-1.5mm ²	22-14	1.2	1



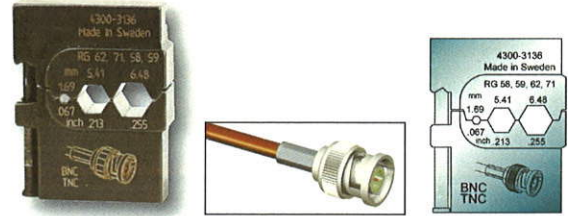
43143 PortaCrimp Weather Pack Open Barrel Terminals

Item	Crimps	AWG	lbs.	Pkg.
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)

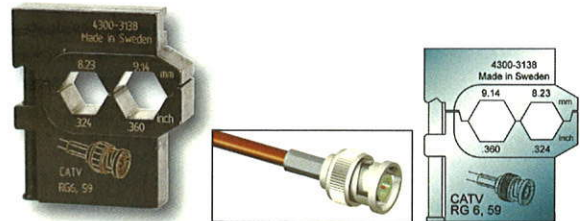
Item	Crimps	AWG	lbs.	Pkg.
43141	4.52/5.41/3.84/3.25mm	(.178"/.213"/.151"/.128")	1.2	1



43136 PortaCrimp Coaxial Network & Communications

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

Item	Crimps	lbs.	Pkg.
43136	1.69/5.41/6.48mm	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).

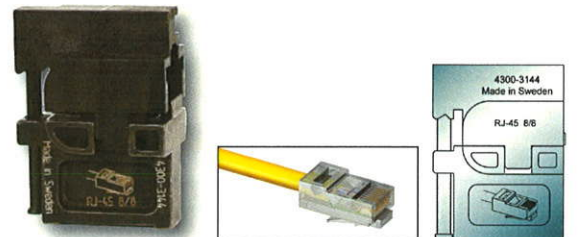
Item	Crimps	lbs.	Pkg.
43138	9.14 & 8.23mm	1.2	1



43140 PortaCrimp Coaxial Network & Communications

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

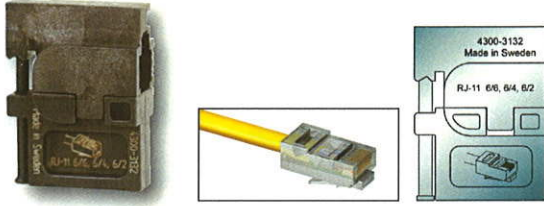
Item	Crimps	lbs.	Pkg.
43140	4.52/3.25/1.69mm hex 0.7mm sq.	1.2	1



43144 PortaCrimp Datacom/Telecom Modular Plug

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

Item	Crimps	lbs.	Pkg.
43144	RJ45	1.2	1



43132 PortaCrimp Datacom/Telecom Modular Plug

Die set for 6-position 6-contact (RJ11).

Item No.	Crimps	AWG	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

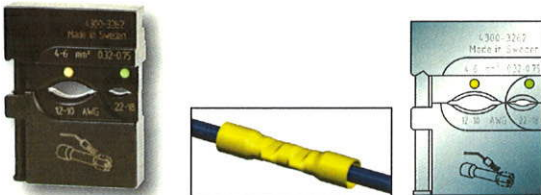
Item No.	Crimps	AWG	lbs.	Pkg.
43148	6 & 10mm	10-8	1.2	1



43158 PortaCrimp Die set for heat shrink connectors:

0.5-1.5mm² red & 1.5-2.5mm² blue.

Item No.	Crimps	AWG	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	AWG	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.

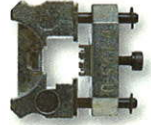
#43652	mm	Inch	lbs.	Pkg.
	200	7.87		1



43654 Tool Die D-RJ11

Item no.	lbs.	Pkg.
43654	1.0	1

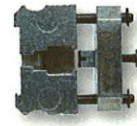
Crimps: 6/6, 6/4 RJ11



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)

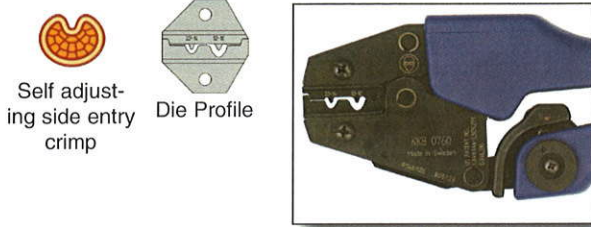


43659 Tool Die D-10POS

Item no.	lbs.	Pkg.
43659	1.0	1

Crimps: 10 pos.

Non-Insulated Crimping Tool

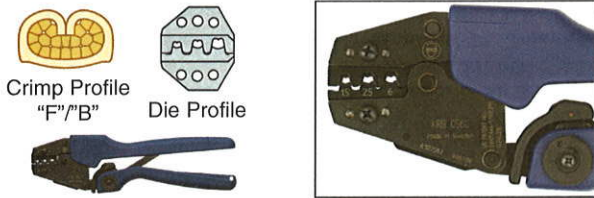


43632 Non-Insulated Crimping Tool For Non-insulated terminals, lugs, wire splices and solid/standard wires ranging from 0.75 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee performance.

#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

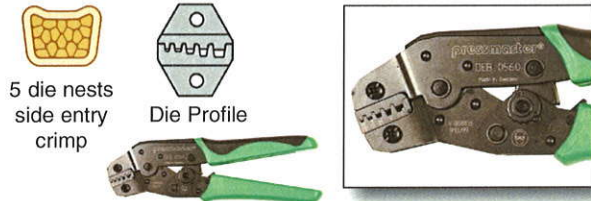


43622 Uninsulated Ergonomic Open Barrel Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on uninsulated open barrel connectors terminals on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set 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

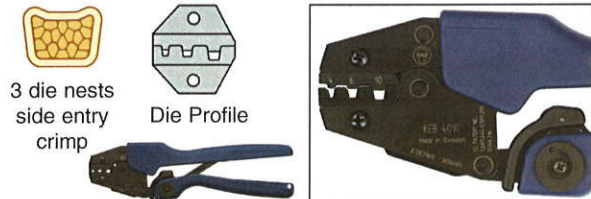


43611 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee 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

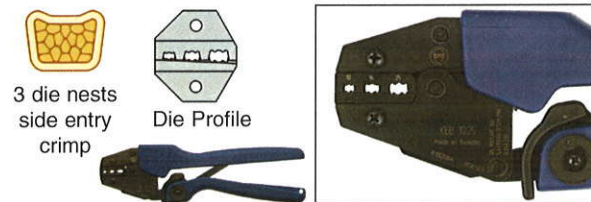


43619 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 4.0 - 10.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory 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

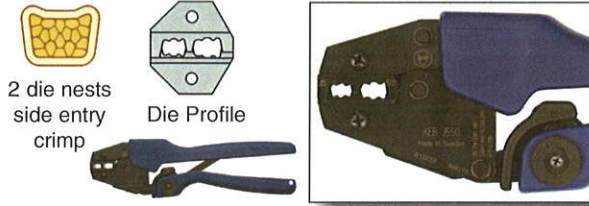


43620 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 10.0 - 25.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory 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

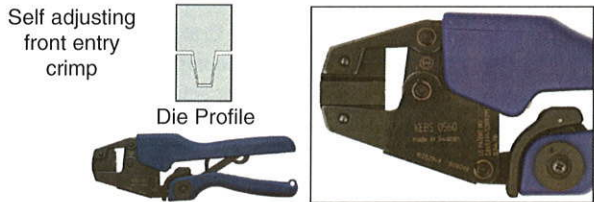


#43621 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 35.0 - 50.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory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

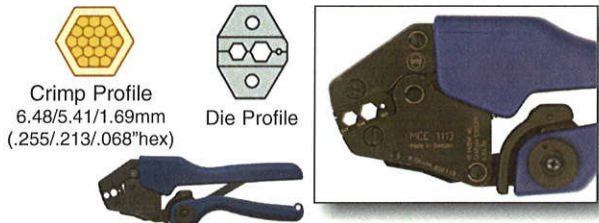


#43653 Insulated & Uninsulated Ergonomic End Splices/Ferrules Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on end splices/ferrules terminals on wires ranging from 0.5 - 6.0mm². Ratchet action to ensure full crimp cycle with safety release. Factory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

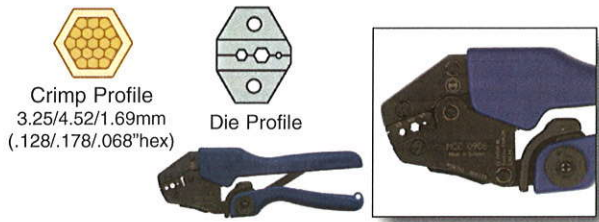


#43614 Ergonomic Coaxial BNC, TNC Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on BNC, TNC coaxial connectors RG58, RG59, RG62, RG71, Thinnet. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee 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

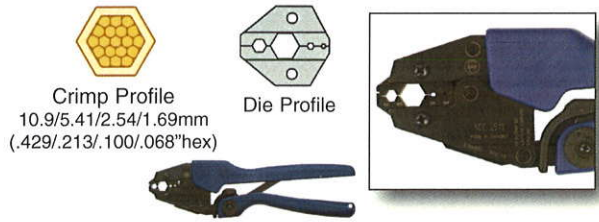


#43613 Ergonomic Coaxial SMA, SMB, SMC Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on SMA, SMB, SMC coaxial connectors RG174, RG179 A/F. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to guarantee 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

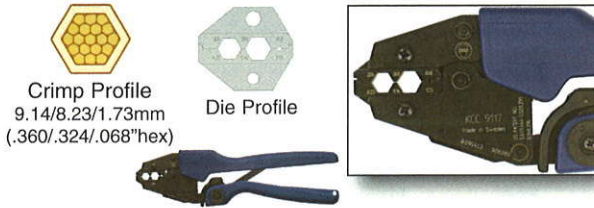


#43628 Ergonomic Coaxial BNC, TNC Crimping Tool Precision ratchet crimp tool designed to provide consistent & reliable crimp connections on BNC, TNC coaxial connectors RG58, RG8, RG11, Ethernet, Thinnet. Ratchet action to ensure full crimp cycle with safety release. Factory set for precise crimping to 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



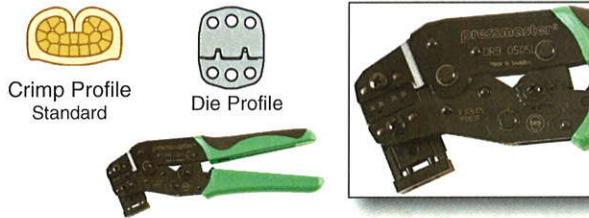
43687 Ergonomic Coaxial Twinax CATV, F Crimping Tool

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



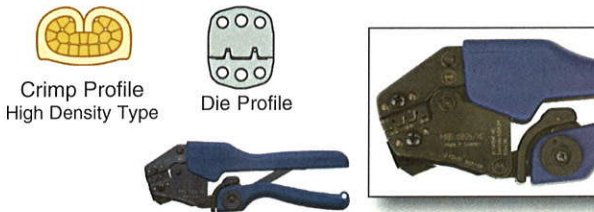
43615 Ergonomic D Sub Uninsulated/Open Barrel Crimping Tool

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



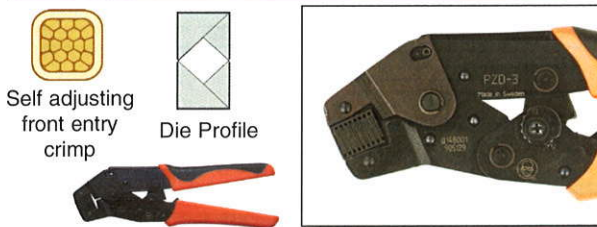
43617 Ergonomic D Sub Uninsulated/Open Barrel Crimping Tool

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



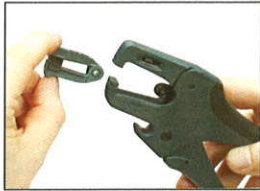
326 Crimping Pliers DIN ISO 5743

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

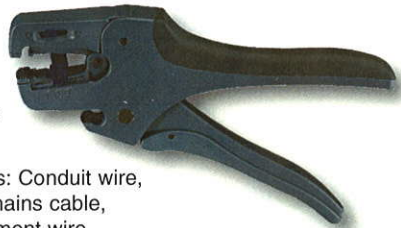


Easy/snag free wire removal from tool - jaws stay open after strip

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	0.02-10mm ²	.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	0.02-10mm ²	.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	4-16mm ²	.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

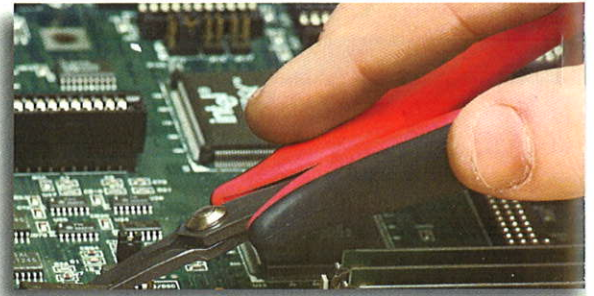
Fine adjustability ensures that thin insulations can be stripped without damage to conductors. At the end of the stripping function, the stripping blades open and remain open during the return phase of the strip cycle facilitating easy/snag free wire removal from the tool.

#44213	AWG	Strip Range	lbs.	Pkg.
	28 - 12	0.1-4mm ²	.02	1

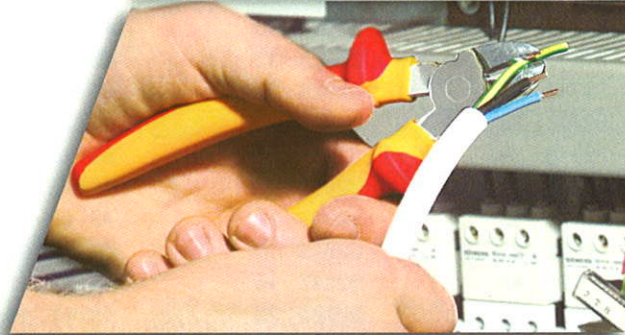
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29240	7	32639	15	32708	31	32891	8	43128	40	45810	36
29250	6	32642	15	32710	31	32969	27	43129	40	45811	36
30901	24	32645	13	32711	31	32917	10	43132	42	45812	36
30903	24	32646	15	32712	31	32923	10	43136	41	45813	37
30905	24	32648	16	32714	32	32926	10	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
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30912	24	32654	18	32721	32	32933	10	43141	41	45823	38
30913	25	32655	17	32722	33	32945	10	43142	40	45824	38
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30919	25	32658	16	32728	33	32971	22	43146	40	56812	28
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30923	26	32660	14	32734	34	32974	22	43148	42	56815	28
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30926	26	32662	18	32744	34	32976	22	43150	41	56825	28
30927	26	32663	14	32746	34	32978	22	43151	41	56830	29
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30933	26	32667	14	32790	35	32983	11	43162	42	76208	9
30937	26	32668	14	32791	35	32984	11	43190	39	76210	9
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30947	24	32670	14	32804	6	32986	11	43192	39	76215	9
30990	27	32671	16	32806	6	32987	11	43611	43	76290	9
30991	27	32672	16	32807	6	32988	11	43612	23	91201	38
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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		
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32612	12	32690	18	32836	5	34619	21	43647	45		
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32626	19	32697	18	32860	5	34626	21	43658	42		
32627	19	32698	16	32861	5	34627	21	43659	42		
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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



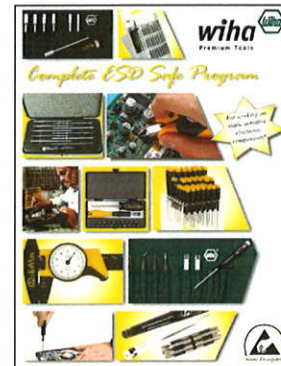
99001.wo - TorqueControl Catalog



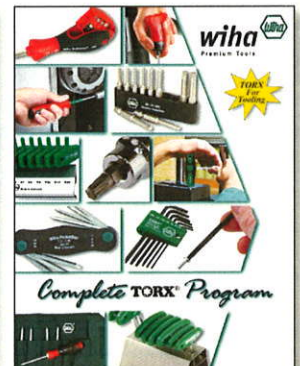
99934.wo - Hex Tools Catalog



99919.wo - Insulated Catalog



99945.wo - ESD Catalog



99914.wo - TORX Catalog