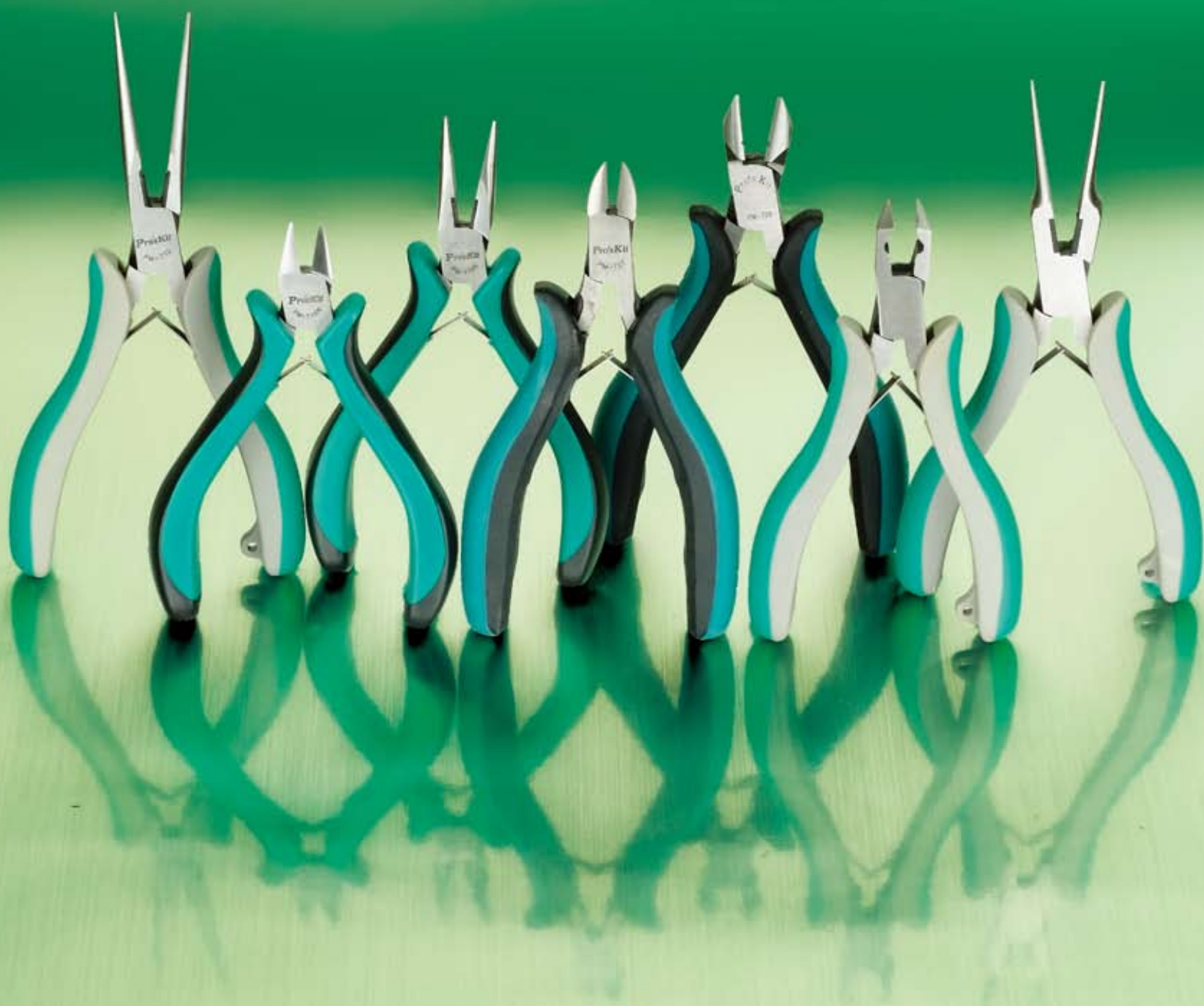


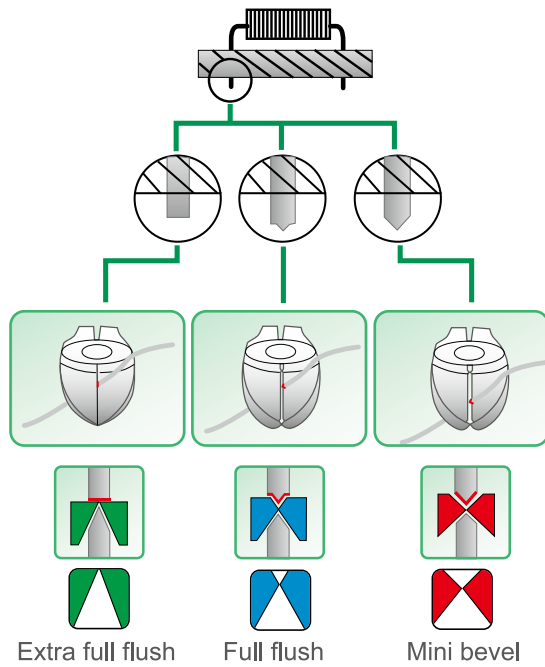


**PRECISION PLIERS & CUTTERS**

**PRECISION PLIERS & CUTTERS**

# Pro'sKit® Precision Pliers

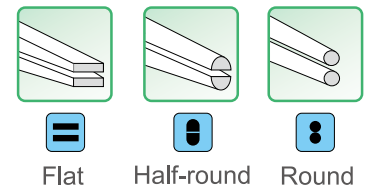
## Cutting edge shapes:



All of Pro'sKit® pliers are made of high quality steel to ensure excellent performance and long life. A variety of materials are used for Pro'sKit® pliers, including: Middle Carbon Steel (S45C, S50C, S55C, SK7, SK5), High Carbon Steel (S60C), High Carbon Tool Steel (SAE1085), Chrome Vanadium Steel (CrV, SAE6168, SAE6150), Chrome-molybdenum Vanadium Steel (SCM440), Stainless Steel (AISI420, 410, 420J2, 420K2).

- The overall lengths of most Precision Pliers range from 90 to 145mm (4" to 5-1/2") and are great for use on flattening, bending, holding and cutting precise electronic components, wires and PCB. They are also popular in the jewelry industry.
- The overall lengths of most Electrical Pliers range from 150 to 230mm (6" to 9"), suited for cutting various kinds of heavy duty metal wires, mainly used in electronic, automobile, building field.

## Basic shapes of jaws :



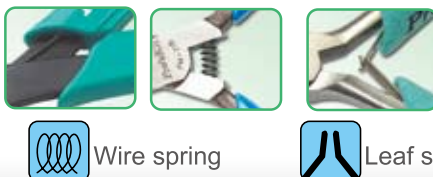
## Gripping surfaces:



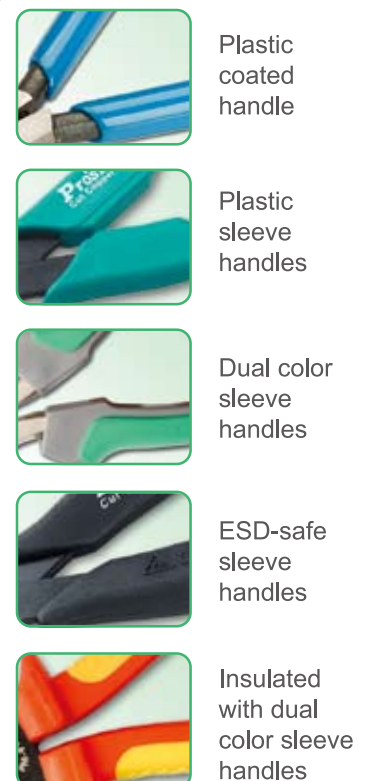
## Finish of Pliers:



## Spring:



## Handles:



# Pliers Technical Basics

## Spring



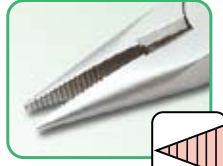
### Wire Spring

Precision pliers with double leaf springs or wire spring to keep the handles always self-opening to supply smooth and efficient operation.



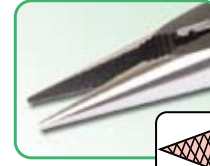
### Leaf spring

## Gripping surfaces



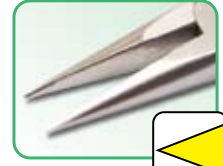
### Serrated

Serrated jaws provide a good grip but serrations can mar jewelry when you exert force excessively.



### Crosswise serrated

Crosswise serrated jaws provide the best grip, suited for pulling and cutting various kinds of heavy duty metal wires whatever in horizontal or vertical angles, but serrations will cause abrasion when exerting force too much.



### Smooth

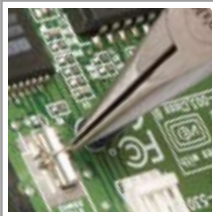
Smooth jawed pliers are unlikely to mar objects but do not provide good grip. Suited for flattening wire, flattening pins and precision assembly work.

## Shapes of jaws:

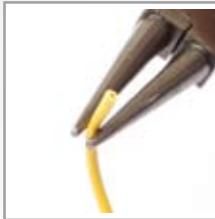
- **Flat jaws** : Mainly used in gripping and holding flat or square objects securely and for making angular bends. Insides of jaws may be smooth or serrated. Usually used on electric pliers and electronic flat nose pliers.



- **Half-round jaws** : Mainly used for holding objects, pulling wires and bending wires. Insides of jaws may be smooth or serrated. It is widely used in various needle nose pliers.



- **Round jaws** : Mainly used in making bends, loops, circles, coils from wire or sheet metal. Tapered circular jaws are smooth so that they will not scratch or nick soft metals. It is popular in the jewelry industry



## Cutting edge shapes:



**Without bevel** : This kind of cutting edge shape is usually designed in micro nippers, precision electronic pliers, plastic cutting pliers. Its blade very sharp, suited for cutting soft wire up to Ø1.0mm(AWG 18) .



**Small outside bevel** : This kind of cutting edge shape is usually designed in electronic pliers, suited for cutting soft wire, copper wire from 0.6 to Ø1.2mm (AWG 22 to16) or small components.



**Outside bevel** : It is usually designed in electric pliers, needle pliers, suited for cutting thick copper wire or hard iron wire from Ø 0.8 to Ø1.6mm (AWG 20 to14) or heavy duty metal pins.

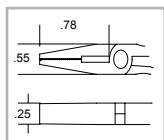
## Safety Caution



- When using cutting pliers, please wear protective goggles and gloves and beware of wire ends flying off.
- Each tool should only be used for its specified purpose.
- Only handles marked with the symbol  1000V are insulating.



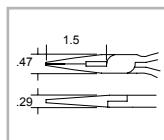
## PM-731 Mini Lineman's Plier



Unit: inch



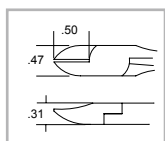
## PM-736 Long Nose Plier



Unit: inch



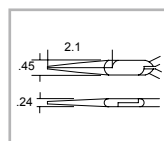
## PM-737 Diagonal Cutting Plier



Unit: inch



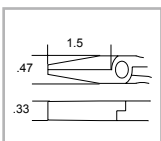
## PM-746 Needle Nose Plier



Unit: inch



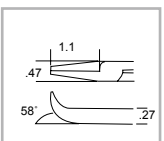
## PM-754 Flat Nose Plier



Unit: inch



## PM-755 Bent Nose Plier



Unit: inch



## Precision Pliers

- High quality carbon steel S45C forged made hardened and finished with nickel plating for corrosion resistance.
- Cutting edge additionally induction-hardened, hardness approx. HRC50°~55°
- Spring-loaded for self-opening action to reduce fatigue during long term operation.
- Dual color, non-slip TPR handles for user comfort and easy operation.
- Particularly designed for electronic and precision field.

Cutting edge additionally induction-hardened, hardness of HRC50°~55°

Made from S45C with nickel plating for corrosion resistance

Dual color, non-slip TPR handles

Leaf spring or Wire spring  
Spring-loaded for self-opening action



| Model No. | Material | HRC          | Application   | OAL.(mm/inch) | Individual packing |
|-----------|----------|--------------|---------------|---------------|--------------------|
|           |          | Cutting edge | Copper        |               |                    |
| PM-731    | S45C     | 50°~55°      | Ø 1.0mm/18AWG | 115/4.5       | Blister card       |
| PM-736    | S45C     | 50°~55°      | Ø 1.0mm/18AWG | 131/5.2       | Blister card       |
| PM-737    | S45C     | 50°~55°      | Ø 1.0mm/18AWG | 108/4.3       | Blister card       |
| PM-746    | S45C     | 50°~55°      | -             | 146/5.7       | Blister card       |
| PM-754    | S45C     | 50°~55°      | -             | 133/5.2       | Blister card       |
| PM-755    | S45C     | 50°~55°      | -             | 131/5.2       | Blister card       |

TESTERS

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STRIPPERS

PUNCHDOWN  
TOOLS

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ASSEMBLY

SCREWDRIVERS/  
BITS

HEX KEY/  
WRENCHES

TWEEZERS

# Pliers

- Adjustable screw insures precise cuts every time.
- Made of high-quality 63CRM material, precise and durable
- Ergonomic, non-slip handle with dual colors ensures great operator comfort
- Leaf spring, energy saving design for efficient work

Cutting edge: HRC52 $\pm$ 2°

Adjustable screw

Material:  
63CRM

Dual color,  
Ergonomic TPR  
handles

Leaf spring  
Spring-loaded for  
self-opening action



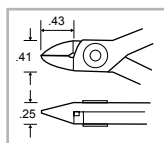
Smooth surface is cut  
(By PM-721/PM-723)



Adjustable screw  
(By PM-721/PM-723)

## PM-721

## Diagonal Semi-Flush Cutting Nipper

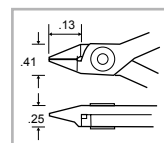


Unit: inch



## PM-723

## Diagonal Flush Cutting Nipper

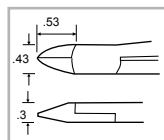


Unit: inch



## PM-727

## Cutting Plier

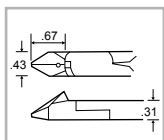


Unit: inch



## PM-728

## Cutting Plier

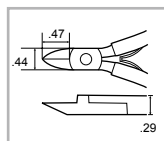


Unit: inch



## 902-078

## 4 1/2" Precision Cutting Plier

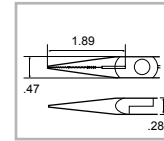


Unit: inch



## 902-079

## 5" Extra Long Nose Plier

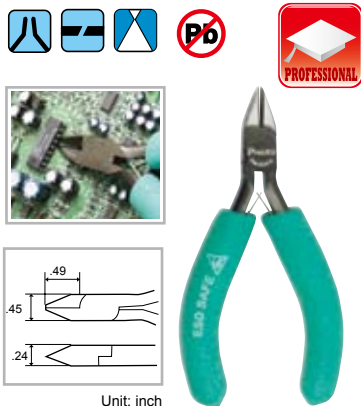


Unit: inch



| Model No. | Material  | HRC         |              | Application   |            |               | OAL.(mm/inch) | Individual packing |
|-----------|-----------|-------------|--------------|---------------|------------|---------------|---------------|--------------------|
|           |           | Body        | Cutting edge | Hard steel    | Soft steel | Copper        |               |                    |
| PM-721    | 63CRM     | 55 $\pm$ 3° | -            | -             | -          | Ø 1.3mm/16AWG | 115/4.5       | Blister card       |
| PM-723    | 63CRM     | 55 $\pm$ 3° | -            | -             | -          | Ø 1.3mm/16AWG | 115/4.5       | Blister card       |
| PM-727    | SAE6050   | 40 $\pm$ 3° | -            | -             | -          | Ø 1.3mm/16AWG | 125/4.9       | Blister card       |
| PM-728    | SAE6050   | 40 $\pm$ 3° | -            | -             | -          | Ø 1.3mm/16AWG | 130/5.1       | Blister card       |
| 902-078   | AISI 6140 | 45 $\pm$ 3° | 61 $\pm$ 3°  | Ø 0.8mm/20AWG | -          | Ø 2.0mm/12AWG | 120/4.7       | Blister card       |
| 902-079   | AISI 6140 | 45 $\pm$ 3° | 61 $\pm$ 3°  | Ø 0.8mm/20AWG | -          | Ø 2.0mm/12AWG | 155/6.1       | Blister card       |

### PM-023CN 4 1/2" Pointed Diagonal Plier



### PM-029CN 5" Round Nose Plier



## ESD Safe Pliers and Cutters



- ESD safe, soft touch handle provides a secure hold.
- Cushioned handle increases user comfort.
- Made of high-quality carbon steel with nickel plating, antirust for repeated use
- With double leaf springs for self-opening action to supply smooth operation.

Material: Carbon steel with Nickel Plating

Cutting edge HRC52 $\pm$ 2

Body HRC43 $\pm$ 2

Leaf spring

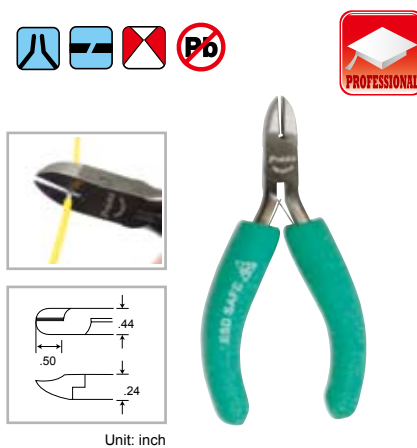


ESD safe cushioned grips for superior comfort and protection 10<sup>7</sup>~10<sup>9</sup>  $\Omega$

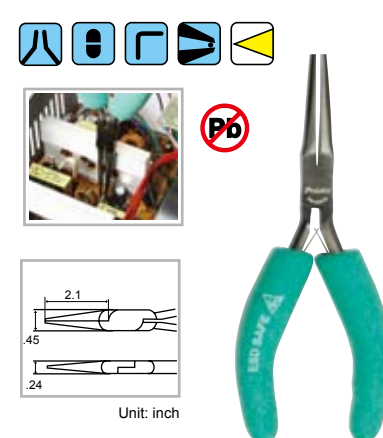
### PM-036CN 5" Snipe Nose Plier



### PM-037CN 4 1/2" Diagonal Cutting Plier



### PM-046CN 6" Needle Nose Plier



### PM-053CN 5" Flat Nose Plier



### PM-055CN 5" Bent Nose Plier



| Model No. | Material | HRC         |                 | Application   |               |               | OAL.<br>(mm/inch) | Individual<br>packing |
|-----------|----------|-------------|-----------------|---------------|---------------|---------------|-------------------|-----------------------|
|           |          | Body        | Cutting<br>edge | Hard steel    | Soft steel    | Copper        |                   |                       |
| PM-023CN  | S45C     | 43 $\pm$ 2° | 52 $\pm$ 2°     | Ø 0.8mm/20AWG | Ø 1.3mm/16AWG | Ø 1.6mm/14AWG | 115/4.5           | Blister card          |
| PM-029CN  | S45C     | 43 $\pm$ 2° | -               | -             | -             | -             | 127/5.0           | Blister card          |
| PM-036CN  | S45C     | 43 $\pm$ 2° | 52 $\pm$ 2°     | Ø 0.8mm/20AWG | Ø 1.3mm/16AWG | Ø 1.6mm/14AWG | 127/5.0           | Blister card          |
| PM-037CN  | S45C     | 43 $\pm$ 2° | 52 $\pm$ 2°     | Ø 0.8mm/20AWG | Ø 1.3mm/16AWG | Ø 1.6mm/14AWG | 115/4.5           | Blister card          |
| PM-046CN  | S45C     | 43 $\pm$ 2° | -               | -             | -             | -             | 150/5.9           | Blister card          |
| PM-053CN  | S45C     | 43 $\pm$ 2° | -               | -             | -             | -             | 127/5.0           | Blister card          |
| PM-055CN  | S45C     | 43 $\pm$ 2° | -               | -             | -             | -             | 127/5.0           | Blister card          |

### PK-ST902

### 4 Pc Ergonomic ESD Safe Plier And Cutter Kit



#### Contents

PM-055CN /PM-023CN/  
PM-037CN/PM-036CN



TESTERS

PRECISION PLIERS  
& CUTTERS

ELECTRICAL PLIERS  
& CUTTERS

KNIVES, SCISSORS  
& SAWS

CRIMPERS

STRIPPERS

PUNCHDOWN  
TOOLS

SOLDERING /  
ASSEMBLY

SCREWDRIVERS/  
BITS

HEX KEY/  
WRENCHES

TWEEZERS

# Precision Stainless Steel Pliers Mirror Polished

- Made of stainless steel with mirror polished finish
- Leaf springs are spot welded to the tool handles to fix the jaws in a comfortable position
- Forged box joint construction gives strength and precision

Induction Hardened  
Cutting edges

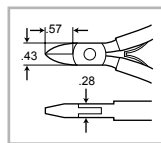
High grade alloy  
steel, hot drop  
forged, oil hardened  
and tempered for  
long life and perfect  
precision work

Mirror polished  
surface, no  
flaking, no  
corrosion

Double leaf springs, for user  
comfort, control and lifetime  
of service



200-056

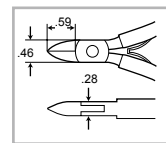


Unit: inch

4 1/2" Semi-Flush  
Diagonal Cutter



200-057

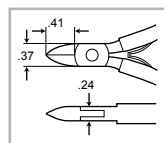


Unit: inch

4 1/2" Full-Flush  
Diagonal Cutter



200-058

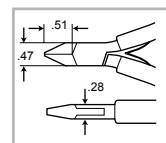


Unit: inch

4 1/2" Slim Full  
Flush Diagonal  
Cutter



200-059

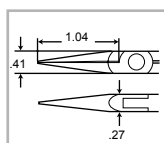


Unit: inch

4 1/2" Full-Flush  
Straight Side  
Cutter



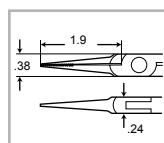
100-011 5" Needle-Nosed  
Plier



Unit: inch



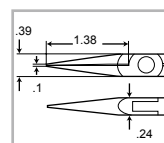
100-012 6" Needle-Nosed  
Plier



Unit: inch



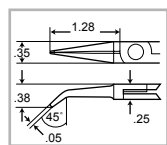
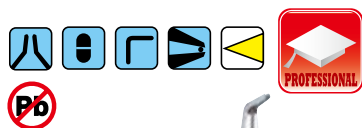
100-013 5 1/2" Needle-  
Nosed Plier



Unit: inch



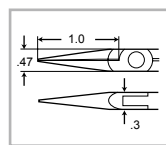
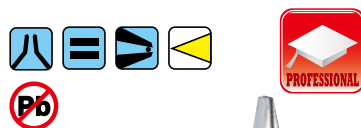
▶ 100-014 5 1/2" Bent-Nosed Plier



Unit: inch



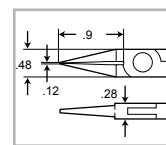
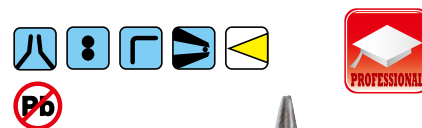
▶ 100-015 5 1/2" Flat-Nosed Plier



Unit: inch



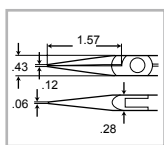
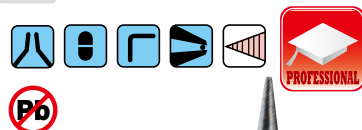
▶ 100-016 5 1/2" Round-Nosed Plier



Unit: inch



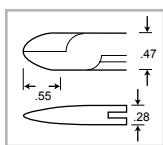
▶ 100-017 6" Needle-Nosed Plier



Unit: inch



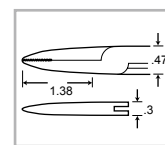
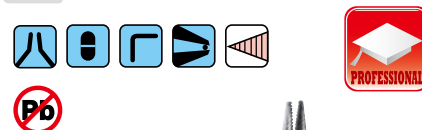
▶ 200-067 5" Side Cutting Plier



Unit: inch



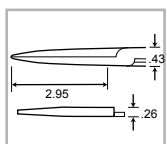
▶ 100-025 5" Long-Nosed Plier



Unit: inch



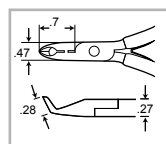
▶ 100-006 7 1/2" Long-Nosed Flat Blade Plier



Unit: inch



▶ 200-060 5" Flush Oblique Cutter Slim Tip Plier



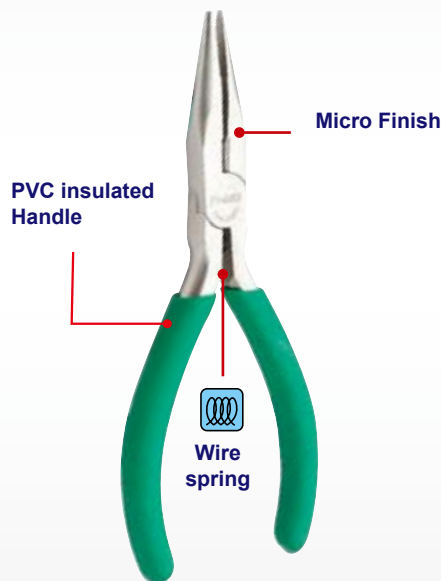
Unit: inch



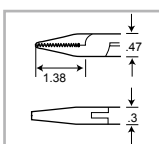
| Model No. | Material | HRC<br>Body | Application       |                   |                   | OAL.<br>(mm/<br>inch) | Individual<br>packing |
|-----------|----------|-------------|-------------------|-------------------|-------------------|-----------------------|-----------------------|
|           |          |             | Hard<br>steel     | Soft<br>steel     | Copper            |                       |                       |
| 200-056   | AISI420  | 45°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.3mm<br>/16AWG | Ø 2.0mm<br>/12AWG | 110/4.3               | Blister card          |
| 200-057   | AISI420  | 45°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.3mm<br>/16AWG | Ø 2.0mm<br>/12AWG | 110/4.3               | Blister card          |
| 200-058   | AISI420  | 45°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.3mm<br>/16AWG | Ø 1.6mm<br>/14AWG | 110/4.3               | Blister card          |
| 200-059   | AISI420  | 45°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.3mm<br>/16AWG | Ø 2.0mm<br>/12AWG | 110/4.3               | Blister card          |
| 100-011   | AISI410  | 45°±3°      | -                 | -                 | -                 | 125/4.9               | Blister card          |
| 100-012   | AISI410  | 48°±3°      | -                 | -                 | -                 | 140/5.5               | Blister card          |
| 100-013   | AISI410  | 48°±3°      | -                 | -                 | -                 | 135/5.3               | Blister card          |
| 100-014   | AISI410  | 48°±3°      | -                 | -                 | -                 | 135/5.3               | Blister card          |
| 100-015   | AISI410  | 48°±3°      | -                 | -                 | -                 | 135/5.3               | Blister card          |
| 100-016   | AISI410  | 48°±3°      | -                 | -                 | -                 | 130/5.1               | Blister card          |
| 100-017   | AISI410  | 48°±3°      | -                 | -                 | -                 | 145/5.7               | Blister card          |
| 200-067   | AISI420  | 48°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.6mm<br>/14AWG | Ø 2.0mm<br>/12AWG | 125/4.9               | Blister card          |
| 100-025   | AISI410  | 48°±3°      | -                 | -                 | -                 | 140/5.5               | Blister card          |
| 100-006   | AISI410  | 48°±3°      | -                 | -                 | -                 | 190/7.5               | Blister card          |
| 200-060   | AISI420  | 45°±3°      | Ø 0.8mm<br>/20AWG | Ø 1.0mm<br>/18AWG | Ø 1.6mm<br>/14AWG | 125/4.9               | Blister card          |

# Electronics Pliers

- Hot drop forged from carbon steel
- All cutting edges are hardened and tempered
- Micro finished, PVC insulated handle



## 100-003 5" Needle-Nosed Plier

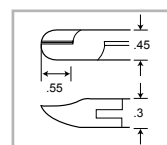


Unit: inch



Cutting capacity:  
• Hard steel: Ø0.8mm/20AWG  
• Copper: Ø1.6mm/14AWG

## 200-037 4 1/2" Diagonal Cutter Plier

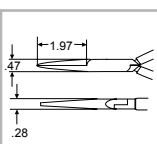
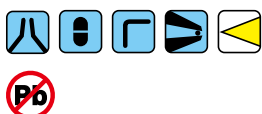


Unit: inch



Cutting capacity:  
• Hard steel: Ø0.8mm/20AWG  
• Soft steel: Ø1.3mm/16AWG  
• Copper: Ø1.6mm/14AWG

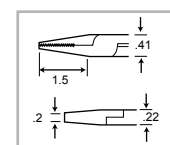
## 100-042 6" Needle-Nosed Plier



Unit: inch



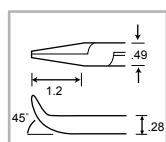
## 100-044 5" Flat-Nosed Plier



Unit: inch



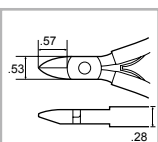
## 100-004 5" Bent-Nosed Plier



Unit: inch



## 200-087 5" Heavy Duty Cutter

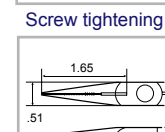
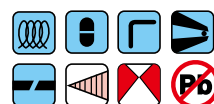


Unit: inch

Cutting capacity:  
Ø0.5mm piano wire (under HRC≤ 45°)



## 100-040 5 1/2" Long-Nosed Plier



Unit: inch



Cutting capacity:  
Ø1.2mm piano wire (under HRC≤ 45°)

| Model no. | Material | HRC    |              | OAL. (mm/inch) | Individual packing |
|-----------|----------|--------|--------------|----------------|--------------------|
|           |          | Body   | Cutting edge |                |                    |
| 100-003   | S45C     | 43"±3" | 48"±3"       | 136/5.4        | Blister card       |
| 200-037   | S45C     | 43"±3" | 48"±3"       | 110/4.3        | Blister card       |
| 100-042   | S45C     | 43"±3" | 45"±3"       | 150/5.9        | Blister card       |
| 100-044   | S45C     | 43"±3" | 48"±3"       | 135/5.3        | Blister card       |
| 100-004   | S45C     | 43"±3" | 48"±3"       | 130/5.1        | Blister card       |
| 200-087   | SAE 6140 | 45"±3" | 62"±3"       | 125/4.9        | Blister card       |
| 100-040   | SAE 6140 | 45"±3" | 62"±3"       | 140/5.5        | Blister card       |



## Specialty Electronic Pliers Conductive Handle

- Made from high carbon steel. Accurately machined, these high quality precision tools are designed for fine assembling and adjustment operations on electronic circuits.
- Provide for easy work on high density PC board
- Conductive handle (top 4 models only)



| Model no. | Material | HRC     |              | Application<br>Copper | OAL. (mm/inch) | Individual packing |
|-----------|----------|---------|--------------|-----------------------|----------------|--------------------|
|           |          | Body    | Cutting edge |                       |                |                    |
| 200-040   | SK7      | 50°±3°  | 50°±3°       | Ø 1.3mm/16AWG         | 130/5.1        | Blister card       |
| 200-083   | SK7      | 50°±3°  | 50°±3°       | Ø 0.8mm/20AWG         | 120/4.7        | Blister card       |
| 200-041   | S50C     | 50°±3°  | 50°±3°       | Ø 2.0mm/12AWG         | 125/4.9        | Blister card       |
| 200-082   | S50C     | 50°±3°  | 50°±3°       | Ø 2.0mm/12AWG         | 125/4.9        | Blister card       |
| 100-007   | S50C     | 50°±3°  | -            | -                     | 140/5.5        | Blister card       |
| PM-251    | AISI420  | 48°±3°  | -            | Ø 1.3mm/16AWG         | 122/4.8        | Blister card       |
| PM-252    | AISI420  | 43°~46° | -            | Ø 1.0mm/18AWG         | 118/4.6        | Blister card       |
| PM-254    | AISI420  | 43°~46° | -            | Ø 1.0mm/18AWG         | 118/4.6        | Blister card       |

# Specialty Electronics Pliers

## High quality

- Clean and smooth cutting
- Light for easy operation
- Particularly made for electronic and precision field
- Cut copper wire only

Material: SK7  
High carbon steel  
Hardness: HRC50°

Anti-slip material  
for comfortable  
operation.

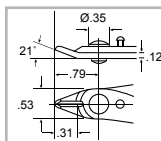
Lanyard hole  
for easy  
carrying

Wire spring



200-002

### 5" Economy Flush Cutter

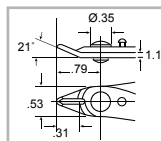


Unit: inch



200-071

### 5" Precision Flush Cutter



Unit: inch



902-075/902-076

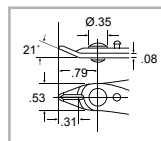
### 5" Micro Cutting Plier



902-076



with safety clip

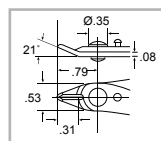


Unit: inch



902-077

### 5" Micro Cutting Plier

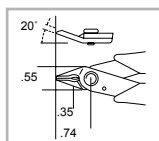


Unit: inch



902-011

### 5" Micro Cutter

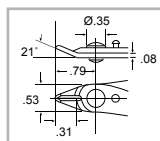


Unit: inch



200-088

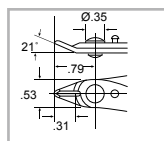
### 5" Micro Cutter



Unit: inch



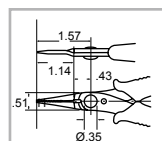
200-092 5" Micro Cutter



Unit: inch



100-046 6" Long-Nosed Plier



Unit: inch



200-080 2 in 1 Wire Stripper/Cutter



| Model No. | Material | HRC    |              | Application                                                         |              | OAL.<br>(mm/inch) | Individual<br>packing |
|-----------|----------|--------|--------------|---------------------------------------------------------------------|--------------|-------------------|-----------------------|
|           |          | Body   | Cutting edge | Soft steel                                                          | Copper       |                   |                       |
| 200-002   | SK7      | 50°±3° | 50°±3°       |                                                                     | Ø1.6mm/14AWG | 125/4.9           | Blister card          |
| 200-071   | SK7      | 50°±3° | 50°±3°       |                                                                     | Ø1.3mm/16AWG | 130/5.1           | Blister card          |
| 902-075   | SK5      | 50°±3° | 50°±3°       | Ø0.8mm/20AWG                                                        | Ø1.6mm/14AWG | 130/5.1           | Blister card          |
| 902-076   | SK5      | 50°±3° | 50°±3°       | Ø0.8mm/20AWG                                                        | Ø1.6mm/14AWG | 130/5.1           | Blister card          |
| 902-077   | SK5      | 50°±3° | 55°±3°       | -                                                                   | Ø1.6mm/14AWG | 130/5.1           | Blister card          |
| 902-011   | SK5      | 48°±3° | -            | -                                                                   | Ø1.2mm/16AWG | 125/4.9           | Blister card          |
| 200-088   | SK5      | 50°±3° | 55°±3°       | Ø0.8mm/20AWG                                                        | Ø1.6mm/14AWG | 130/5.1           | Blister card          |
| 200-092   | S55C     | 55°±3° | 60°±3°       | -                                                                   | Ø1.3mm/16AWG | 130/5.1           | Blister card          |
| 100-046   | S55C     | 50°±3° | -            | -                                                                   | -            | 150/5.9           | Blister card          |
| 200-080   | AISI420  | 48°±3° | -            | Cutter: Ø1.2mm/16AWG<br>Stripper: 0.4~1.6mm <sup>2</sup> (26~14AWG) |              | 130/5.1           | Blister card          |