

Soldering Tip

◆ Product Description

The soldering iron tip is the core functional component of a soldering iron. It directly contacts the solder joint to perform heating, solder melting and soldering operations, and is widely used in scenarios such as electronic component soldering, home appliance maintenance, precision instrument assembly, and DIY handcrafting. Its material, manufacturing process and model design directly determine soldering efficiency, solder joint quality and service life, making it an indispensable key consumable in electronic soldering work.



- High Thermal Conductivity & Rapid Heating
- Multi-Layer Plating for Oxidation Resistance & Durability
- Precision Forming for Wide Compatibility
- Excellent Solder Adhesion for Easy Solder Joint Control
- Standardized Design for Universal Compatibility

◆ Product Structure

- The soldering iron tip features a 3-layer integrated cylindrical rod structure (substrate, plating, functional head), consisting of a tail connection section, a middle heat-conducting section and a head soldering section:

Tail: Standardized size with positioning slot/thread for tight fit with the soldering iron heater core

Middle: Copper/copper alloy substrate as the core heat transfer channel; heat dissipation grooves/fins on high-power models

Head: Precision-machined into pointed/chisel shapes, coated with Fe-Ni anti-oxidation layer and pure tin solder-adhesive layer (nano-ceramic wear-resistant layer for premium models). The one-piece design ensures uniform, efficient heating while balancing soldering adaptability and durability.

◆ Typical Applications

- Boasting a diverse range of tip shapes and high thermal conductivity, soldering iron tips are widely used in scenarios such as precision electronic component soldering, home appliance and electronic device repair, wire harness and cable assembly processing, batch operations on industrial production lines, and DIY maker projects. Specifically: pointed and chisel tips are suitable for fine solder joints like those on chips and mobile phone motherboards; horseshoe and conical tips meet the general needs of home appliance repair; chisel tips improve soldering efficiency for wire harnesses and cable assemblies; industrial-grade plated models support 24/7 continuous operation on production lines; and compact models are ideal for personalized DIY maker creations.

◆ Typical Product Data and Physical Properties

Base Material: Oxygen-Free Purple Copper

Plating Nickel Layer: High-Purity Nickel

Ferroalloy Electroplating Layer: Lead-Free Iron-Nickel Alloy

Surface Tin-Plating Layer: Lead-Free Environmentally Friendly Tin Alloy

Built-in Casing: Stainless Steel

Thermal Conductivity: ≥ 380 W/m·K

Tensile Strength: ≥ 200 Mpa

Thermal Response Time: ≤ 8 s

Availability:

Item#	Specr	Packaging	Weight
1.5.18.01.0002	936 (Curved)	1pcs/bag	0.015kg
1.5.18.01.0004	936 (Straight)	1pcs/bag	0.013kg
1.5.19.01.0037	936 (Wide Blade)	1pcs/bag	0.016kg

◆ Technical and Application Assistance

HORB provides a technical hotline to answer your technical and application related questions.

◆ Note:

This information is believed to be accurate. It is intended for professional end users having the skills to evaluate and use the data properly. HORB data is for reference purposes only.

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