SN-2549 Dupont 2.54 / XH2.54 / JST Terminals Crimping Tool

0.08–1.0 mm² | AWG 28–18 | Ratchet Action | 190 mm



1. GENERAL DESCRIPTION

The SN-2549 is a ratcheting hand crimping tool for open-barrel (non-insulated) terminals on fine wire from 0.08 to 1.0 mm² (AWG 28–18). It suits Dupont 2.54 mm, XH2.54, PH2.0, KF2510, VH3.96 and other JST / Molex-style terminals used in electronics projects, jumper leads and wiring harnesses. The ratchet requires a full crimp cycle before the jaws release, giving consistent crimps, and the precision steel jaws and ergonomic grip make repeated crimping comfortable.

2. KEY FEATURES

- Ratchet mechanism — full crimp cycle required before release for consistent crimps
- Precision crimp dies with parallel jaws for even, repeatable crimps
- Compatible with Dupont 2.54, XH2.54, PH2.0, KF2510, VH3.96 and other JST-style terminals
- Crimps AWG 28–18 (0.08–1.0 mm²) wire
- Steel jaws with ergonomic grip [EDM-cut jaws — confirm]

3. APPLICATIONS

- Making Dupont jumper wires and leads for breadboards, Arduino and Raspberry Pi
- Terminating JST / XH / PH connectors on battery, sensor and LED wiring
- Prototype and harness wiring in electronics workshops
- Repair and maintenance by technicians, makers and hobbyists

4. COMPATIBLE TERMINALS & WIRE SIZES

- Open-barrel (non-insulated) terminals only
- Series: PH2.0, XH2.54, Dupont 2.54, 2.8, 3.0, VH3.96, 4.8, KF2510, JST
- [JST ZH 1.5 and D-SUB pins — confirm; some users report ZH jaws too wide]
- Wire size: 0.08–1.0 mm² (AWG 28–18)
- Not for insulated terminals, ferrules or RJ45 / modular plugs

5. TOOL SPECIFICATIONS

Model	SN-2549
Function	Ratchet crimping of open-barrel terminals

Compatible Terminals	PH2.0, XH2.54, Dupont 2.54, 2.8, 3.0, 3.96, 4.8, KF2510, JST
Die Type	Precision crimp dies, parallel jaws
Action	Ratchet-controlled (full cycle before release)
Auto Release	Yes — releases at the end of the crimp cycle
Body / Handle	Steel jaws; ergonomic grip
Wire Range	0.08–1.0 mm² (AWG 28–18)

6. USAGE & MAINTENANCE

- Strip the wire to the length recommended by the terminal manufacturer.
- Seat the open-barrel terminal in the matching die position, with the barrel centred in the jaws.
- Insert the stripped wire, then squeeze the handles slowly and fully until the ratchet releases.
- Pull on the wire to check the crimp; if it is loose, discard the terminal and re-crimp with a new one.
- Do not use on insulated terminals, ferrules or RJ45 plugs, or on wire above 1.0 mm²; this may damage the dies.
- Keep the dies clean and store the tool in a dry place when not in use.