

Jumper Wire Crimping Tools

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping

Jumper wire crimping tools make custom jumper and connector wires by crimping connectors onto wire ends: crimp pliers, wire strippers and connector kits combine to produce reliable leads for breadboards and header systems.

Key Features

- Ratchet crimpers for firm connections
- Dies for Dupont and JST connectors
- Strip and crimp in one tool models
- Connector kits with housings and pins
- Wire lengths cut to order

Typical Uses in the Workshop

- Make custom-length jumper leads for classes
- Repair damaged connector wires
- Build sensor and servo extension cables
- Produce reliable breadboard jumpers in bulk

Safe Operation

1. Strip the wire to the pin barrel length
2. Place the pin in the correct die and crimp in one squeeze
3. Insert the pin into the housing until it clicks
4. Pull-test the wire to verify the crimp
5. Sort finished leads by length and pin type

SAFETY NOTES

- Keep fingers clear of the crimp dies
- Do not crimp live or powered wires
- Work away from water
- Check the tool closes fully before applying force
- Store dies and handles tidy

Maintenance & Consumables

- Oil the pivot and return spring
- Replace worn dies
- Clean the jaws of stray insulation
- Check the ratchet releases properly
- Keep connector kits organised

Specification & Buying Notes

A ratchet crimper with Dies for Dupont, JST-XH and servo connectors plus a connector kit covers class repair work. Quality crimpers make connections that do not fail mid-competition.