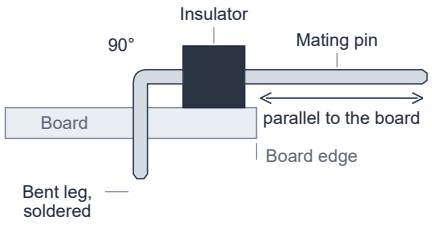
# 2.54 mm Male Pin Header Strip, 1 x 40

**Right angle (90 degree), single row, breakaway. One strip of 40 pins.**

1 x 40 | 2.54 mm PITCH | RIGHT ANGLE | BREAKAWAY

## MECHANICAL OUTLINE




End view, fitted to a board. Simplified and not to scale.
Pins sit 2.54 mm apart along the strip.

## FIT AND COMPATIBILITY

**Pitch:** 2.54 mm (0.1 in) between pin centres, the common spacing for breadboards, Arduino and ESP32 boards, Raspberry Pi GPIO and most sensor modules.

**Mates with:** 2.54 mm female headers, female Dupont jumper sockets and solderless breadboards.

**Which end goes where:** the bent legs go down through the board and are soldered. The straight pins point out sideways, parallel to the board, for the plug or lead.

**Need pins standing straight up?** Use the straight version of this strip, Click IT SKU CLICK-IT-290545

## IDENTIFICATION AND MECHANICAL DATA

| PARAMETER | VALUE |
|---|---|
| Type | **Male pin header strip, single row, through-hole** |
| Positions | **40 (1 x 40)** |
| Pitch | **2.54 mm (0.1 in)** |
| Strip length | **101.6 mm nominal (40 x 2.54 mm)** |
| Pin style | **Right angle, bent 90 degrees, square section** |
| Pin section | **0.64 mm square, nominal** |
| Mounting | **Insulator on the board, mating pins parallel to the board** |
| Insulator | **Black moulded plastic, V-notch between every position** |
| Pin finish | **Bright silver colour** |
| Suggested PCB hole | **1.0 mm finished diameter on a 2.54 mm grid** |

Pitch and strip length are nominal. Check the pin height above the board and the overhang past the board edge on a sample strip before finalising a tight enclosure or PCB design.

## SNAPPING TO LENGTH

- **Count:** count the pins you need along the strip.
- **Snap:** hold the strip each side of the notch with flat-nose pliers or your fingers and bend. It breaks cleanly between two pins, so no pin is lost.
- **Cutting:** side cutters also work. Cut through the plastic in the notch, never through a pin.
- **Tidy up:** a light file or a scrape with a knife removes any rough plastic left on the end.

## SOLDERING TO A BOARD

- **Position:** push the bent legs down through the holes from the component side so the insulator sits flat on the board and the straight pins point out past the board edge.
- **Tack first:** solder one end leg from underneath, check the strip sits flat and square to the edge, then solder the other end and the rest.
- **Be quick:** keep the iron on each joint only long enough for the solder to flow, so the plastic does not soften and let a pin move.
- **Check:** look for bridges between neighbouring pins before powering up.

## REVISION HISTORY

| REV | DATE | CHANGE |
|---|---|---|
| 1.0 | 2026-10-14 | First release |