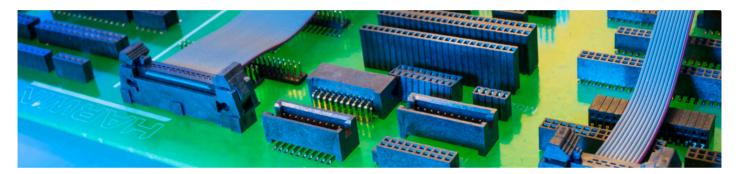
Archer Connectors

The Archer range from Harwin is a series of 1.27mm (0.05") pitch connectors, offering single and double row options at half the PCB footprint of a 2.54mm (0.1") pitch connector. These Industry Standard connectors are backed by Harwin's outstanding service, quality and distribution network, and are an ideal choice for a miniature alternative to larger pin header and socket connections.

- ▶ M50 Single and Double row pin headers and sockets, in vertical and horizontal orientations, for board-to-board connections. 1.27mm (0.05") pitch in both directions, with 0.4mm square male pins. Jumper Sockets and Pin Header Variants also available.
- ▶ M50 Polarised Double row connectors for board-to-board. with added shrouding and a polarisation feature.
- ► M50 IDC Cable connectors for 0.635mm pitch ribbon cable. and associated board connectors with securing latches and polarisation, for cable-to-board connection. Complete cable assemblies also supplied as standard.
- ▶ M52 Single and Double row pin headers and sockets, in vertical and horizontal orientations, for board-to-board connections. 1.27mm (0.05") pitch along the connector, 2.54mm (0.1") between connector rows using 0.46mm square male pins. Pin Header Variants also available.



Archer Connectors - M50 Specification

1.27mm pitch male pin headers (with 0.4mm square pins) and female sockets, for board-to-board connection.

→ Materials

Mouldings: High Temperature Plastic UL94V-0

Copper Alloy Contacts: Finish: See individual pages

> Electrical

Current: 1A per contact

300V AC, 500V DC for 1 minute Voltage proof: (see individual drawings)

Contact resistance: 30mΩ max Insulation resistance: 500MΩ min

→ Mechanical

Durability

M50-310, 312, 491: 100 operations M50-311: 600 operations M50-315: 25 operations M50-353, 363, 393: 500 operations Others: 300 operations

Insertion force (max)

M50-303, 313, 314: 1.17N per contact lumper sockets: 10.0N

Others: 2.0N per contact

Withdrawal force (min)

Jumper sockets: 1.3N

Others: 0.1N per contact

Vibration sensitivity: 10 - 55Hz, 1.5mm, 6 hours duration

294m/s² (30G) for 11ms Shock severity:

Environmental

-40°C to +105°C Operating temperature: Solderability: 245°C for 5 seconds Soldering heat resistance: 260°C for 5 seconds

