

# Archer Connectors - M50 Specification

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

## ❖ Materials

Housings:	High Temperature Plastic UL94V-0
Contacts:	Copper Alloy
Finish:	See individual pages

## ❖ Electrical

Current:	1A per contact
Voltage proof:	300V AC, 500V DC for 1 minute (see individual drawings)
Contact resistance:	30mΩ max
Insulation resistance:	500MΩ min

## ❖ Mechanical

<b>Durability</b>	
M50-310, 312, 491:	100 operations
M50-311:	600 operations
M50-315:	25 operations
M50-353, 363, 393:	500 operations
Others:	300 operations
<b>Insertion force (max)</b>	
M50-303, 313, 314:	1.17N per contact
Jumper sockets:	10.0N
Others:	2.0N per contact
<b>Withdrawal force (min)</b>	
Jumper sockets:	1.3N
Others:	0.1N per contact
<b>Vibration sensitivity:</b>	10 - 55Hz, 1.5mm, 6 hours duration
<b>Shock severity:</b>	294m/s <sup>2</sup> (30G) for 11ms

## ❖ Environmental

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

1.27mm (.050") PITCH

All dimensions in mm.