

Archer Connectors - M50 Specification

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

❖ Materials

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|-----------|----------------------------------|
| 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

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|-------------------------------|------------------------------------|
| 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 |
| Jumper 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 |
| Shock severity: | 294m/s ² (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.