

ABSTRACTHIGH-SPEED EDGE CONNECTOR

An electrical edge connector and a terminal therefore for connecting a first electrical circuit board to a second electrical circuit board, the first electrical circuit board having an insertion edge and two sides, the connector comprising an elongated dielectric housing having therein a longitudinal slot for receiving the insertion edge of the first electrical circuit board and a plurality of transverse terminal receiving cavities adjoining the slot on each side of the slot, and a plurality of signal terminals disposed within some of the terminal retention cavities on each side of the slot and a plurality of ground terminals disposed within others of the terminal retention cavities on each side of the slot, the signal and ground terminals each having a base portion, a retention portion extending from the base portion and retaining the terminal in one of the retention cavities, a tail portion extending from the base portion for electrically connecting the terminal to the second electrical circuit, and a spring arm connected to the base portion for electrically connecting the terminal to the first electrical circuit board, the ground terminals including a generally tapered, enlarged surface area portion for enhancing electrical coupling between the ground terminal and an adjacent signal terminal.

Fig. 2

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