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(54) Title: TELECOMMUNICATIONS JACK ASSEMBLY

(57) Abstract

The present disclosure relates to an insert for a jack. The insert includes a connector mount having a main body including a first side positioned opposite from a second side. The connector mount also includes a snap-fit connection structure positioned at the main body for securing the connector mount to the jack, a divider positioned at the first side of the main body, and an insulation displacement terminal housing positioned at the first side of the main body. A plurality of contact springs are separated by the divider, and a plurality of insulation displacement terminals are housed by the insulation displacement terminal housing. The insert further includes a circuit board that provides electrical connections between the insulation displacement terminals and the contact springs. The circuit board is mounted at the second side of the main body. Some electrical connectors position the contacts in a manner to reduce crosstalk problems. An insert assembly positions the spring contacts within a jack for electrical contact with the contacts of a plug. The insert assembly staggers the relative positions of adjacent spring contacts in the y-direction, and staggers the spring contact pivot points in the x-direction, yet maintains a common contact region for all the spring contacts for contacting the contacts of the plug. The distal ends of alternating spring contacts are positioned so as to increase the isolation between adjacent springs. The insert assembly includes selected air passages between spring contacts mounted to the insert assembly to increase isolation and selected dielectric to increase crosstalk cancellation.

