

HIGH DENSITY ELECTRICAL CONNECTOR

ABSTRACT

A compression connector for interconnecting at least one electrical trace of a circuit of a first electrical device and a circuit of a second electrical device the compression connector comprising, a housing mounting at least one conductive element defining at least, (a) a first beam section fastened to the housing in a cantilevered manner to allow resilient deflection of a movable end of the first beam section relative to the housing, and having a first contact region at another (preferably at a non-movable) end of the first beam region for at least electrical connection to the electrical device, and (b) a second beam section extending at a first end thereof in a cantilevered manner from the movable end of the first beam section the second beam section including a second contact region provided along the beam away from the first end and disposed to engage with, in a compressive manner, and deflectable by an electrical trace of the first electrical device. The conductive element is formed by out of plane bending to position the second beam section at least in part, back over the first beam section, so that the wiping action across the electrical trace by the first contact region of the second beam in a direction transverse to the compression engagement direction is controlled to within predetermined limits by the appropriate selection the geometry of the beams.

(Figure 3)

