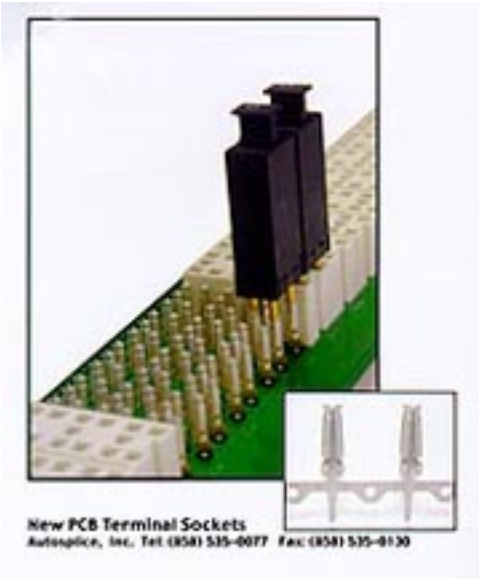
PCB Terminal Socket



Autosplice has developed a new PCB Terminal Socket that is designed to optimize the manufacture of standard surge protector assemblies used extensively in telecom environments.

Surge protector blocks act as &quotcircuit breakers&quot providing the interface between individual subscribers' copper loop lines and the rest of the telecom infrastructure. With the unprecedented growth in new lines to meet the demand for voice, data, fax, DSL, etc., these surge-protected termination points for subscriber-line interfaces are rapidly proliferating and also moving out from the traditional Central Offices into compact standalone collector arrays in individual neighborhoods. As a result, the telecom industry has encountered a growing need to reduce the cost and complexity of conventional assembly methods used for creating surge protector assemblies.

Traditionally the connection method for plugging subscriber loops into surge protectors has involved the use of relatively expensive &quottulip&quot type receptacles with the tail ends protruding through the board to create a wire-wrap array for wiring into the overall telecom infrastructure. After reviewing the specific telecom application requirements and working closely with leading telecom manufacturers, Autosplice proposed a more robust and cost-effective alternative that was based upon an adaptation of an already proven Autosplice PCB Terminal Socket design used within the power utilities industries.

The new PCB Terminal Socket design has undergone extensive testing to ensure compliance with BellCore specifications. Test results have demonstrated that the new Autosplice design meets and/or exceeds all applicable BellCore requirements for reliability, conductivity, retention-fore, etc. In a broader sense, because the new socket is designed for facilitating direct PCB connection, overall costs and complexity can ultimately by reduced through migration to PCB-based rather than traditional wire-wrapped designs.

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