

PRESS RELEASE

Lumberg Expands Press-Fit Serial Production for the Automotive Industry

Schalksmühle, 12.9.2014. The many requirements from a large variety of applications within the automotive industry as well as other fields in electronics have led Lumberg to respond by expanding press-fit technology in its product spectrum. This innovative, solderless electrical connection defines the plasticity around the press-fit zones of the contact male by press-fitting them into the PCB's metallised casing. This sealed, non-ageing connection eliminates corrosion and guarantees high mechanical stability. With improved FIT (Failure-in-Time) ratings of up to 30 times, this technology creates design opportunities and high packing densities for many automotive applications. The solderless method not only erases soldering costs: additionally, the PCB as well as adjacent components are no longer exposed to the stress caused from the high temperatures associated with soldering.

Lumber's press-fit venture is the company's response to the market's call for solderless electrical connections of components with printed circuit boards that are shockproof and vibration-resistant, yet space-saving and highly dependable (0-ppm target).

CuSn press-fit contacts with tried & tested pin geometries have been available on the market for years and come in material thicknesses of 0.6 mm and 0.8 mm. During press-fitting, they form an extremely dependable connection between the press-fit contact of a sub-assembly or connector with the FR4 PCB up to 1.6 mm. As defined in the IEC 60352-5 standard, the result is a large contact surface with multiple cold weldings between the press-fit contact and the metallised casing. Not only do they support an optimal electrical contact, they also create a

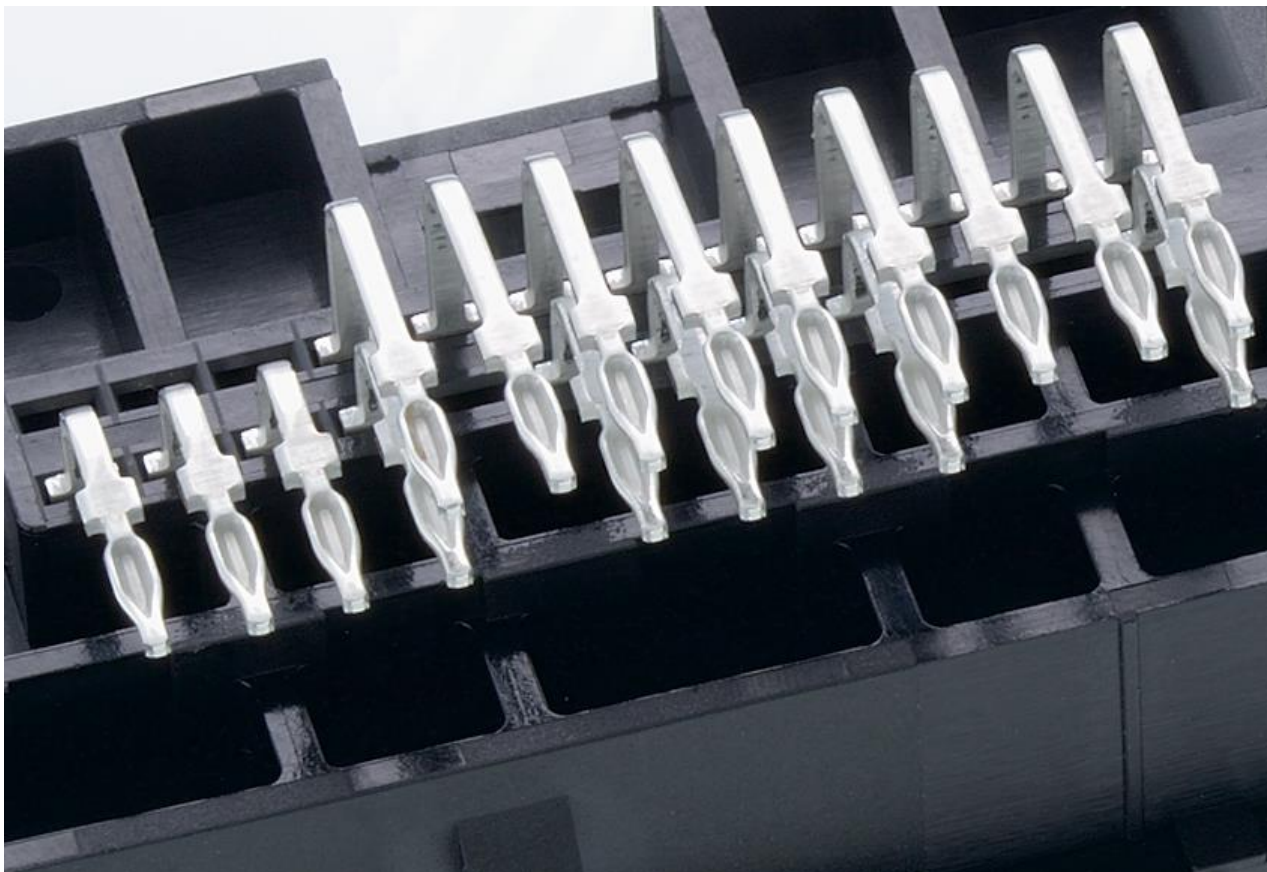
mechanically durable connection. Lower press-in forces with simultaneously high push-out forces guarantee a multitude of applications for multi-layer printed circuit boards.

Naturally, Lumberg can integrate the punched press-fit contacts into a large variety of production methods for mechatronic sub-assemblies which the company custom-designs and produces.

Total no. of characters incl. blanks: 2.143

The media kit for this press release includes the following attachment:

Photo 1: LUMBERG Press-fit Technology Punching Strip 0.6 mm 7200



About Lumberg Group:

The Lumberg Group, headquartered in Schalksmühle, Germany, ranks among the leading providers of connector and interconnect systems. Core areas of expertise include R&D, manufacturing and the worldwide sales of electromechanical and mechatronic components. For 80 years now, the Group's skills have broadened from manufacturing connectors and challenging micro-contact elements, to developing complex mechatronic assemblies, to customer-specific engineering and technical design services for all industries. In-depth application expertise led to strong partnerships in the automotive, home appliance, building technology, communications, consumer electronic and photovoltaic industries. Family-run in third generation, the company has a global workforce of around 1,000. Subsidiaries in Europe, America and Asia form a dense sales network. In 2014, the Group's turnover totalled some Euro 115m. Over 20,000 catalogue and customized products are proof of the company's efficiency. www.lumberg.com