

PRESS RELEASE

New High-Current Contact Tested to LV215: Pluggable on Three Sides for SMT and THT Soldering

Schalksmühle, 14.10.2024. Lumberg expands its portfolio of high-current contacts with the new 4580 01 high-current contact, designed for both SMT (reflow) and THT soldering. This innovative phase contact offers a flexible solution for various assembly requirements and is particularly suited for high-current applications.

The 4580 01 high-current contact is characterized by its versatility and robust – and at 4.9 x 4.95 mm (W x D) particularly space-saving – design, which really comes into its own in tight installation spaces. It can be plugged in from the top, bottom, and side, and is compatible with many standard blade contacts. The connection is made using flat blade connectors with widths from 2.8 to 6.8 mm and a thickness of 0.8 mm (0.5 mm in preparation), enabling easy integration into various PCB designs.

The high-current contact has been tested and meets the requirements of industry standard LV215 for electric vehicle applications and Volkswagen standard VW 80332 for “Motor Vehicle High-Voltage Contacts”.

Technical Highlights:

Temperature Range: -40°C to +120°C

Material: CuCr alloy, tin-plated

Electrical Performance: Contact resistance < 1 mΩ, rated current up to 56 A (depending on installation and heat dissipation)

Mechanical Durability: High pull-out forces for stable connections (e.g., 32 N ± 15 N when plugged in from the top)

Insertion Cycles: Up to 5 cycles

Tests: LV215, VW 80332

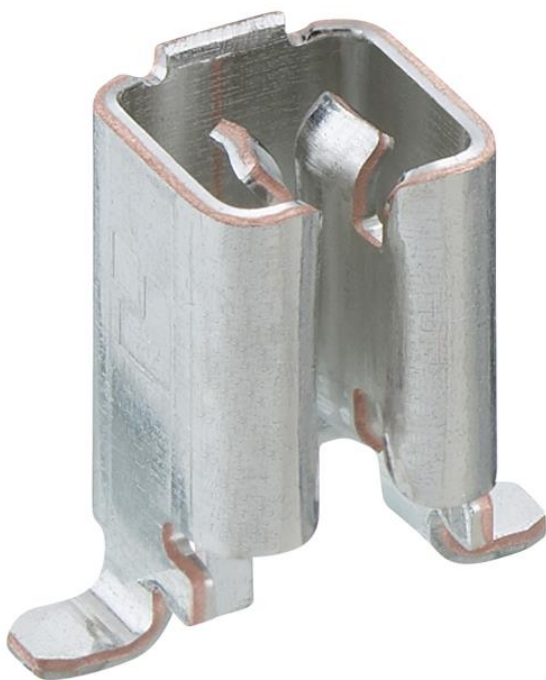
With the 4580 01 high-current contact, Lumberg offers another powerful solution that meets the growing demands and new assembly designs in electronics development. Delivered in blister tape, the contact is particularly suited for automated manufacturing processes.

Lumberg has over 20 years of experience in the high-quality development of high-current contact elements. These are used millions of times in mechatronics modules and control units, especially in modern electric vehicles and charging components for electric vehicles. They are also recommended for use in industrial electric motors and battery-powered tools. While the previous type 4580 04 could be plugged in from the top and the 03 from both the top and bottom and intended for SMT soldering or laser welding – all types can be welded very well onto busbars, for example – the three new types complement the outstanding versatility of the application options with their three-sided plug-in capability.

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As media material to this press release attached you will find:

Photo 1 (© Lumberg): LUMBERG_Hochstromkontakt_4580 01 MP.jpg



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 more than 90 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 and communications industries. Family-run in the third generation, the company has a global workforce of around 1,250. Subsidiaries in Europe, America and Asia form a dense sales network. In 2023, the Group's turnover totaled some Euro 150 m. Over 30,000 catalog and customized products are proof of the company's efficiency.

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