

**PRESS RELEASE**

**Premiere at Lumberg:  
Top Miniaturization Achieved at RAST with Pitch 1.5**

**Schalksmühle, 11.11.2022.** „Home of the RAST Connector“ – Lumberg stands for this like no other connector manufacturer. RAST systems are the foundation of the company's success in automotive, building technology and home appliances. In 1986, Lumberg was one of the inventors of "Raster-Anschluss-Steck-Technik", or RAST for short. At that time, RAST 5 debuted with a contact pitch of 5.0 mm for "white goods". In the course of miniaturization, the RAST 2.5 system was introduced in 1993. Compared to RAST 5, this system saved a good 72 % in size and opened up new applications, especially in heating and automotive technology. Since then, the smaller RAST 2.5 has been used up to 4 amperes wherever the electrical requirements of the application permit.

RAST 2.5 and RAST 5 are systems that contact the PCB edge directly or indirectly via pin headers. In insulation displacement technology and especially as a modular direct connecting system, a wide range of applications can be realized in a space-saving manner without mismatching. In addition, Lumberg's suitable machine concepts enable the efficient and cost-effective production of wire harnesses in industrial quality for any batch size.

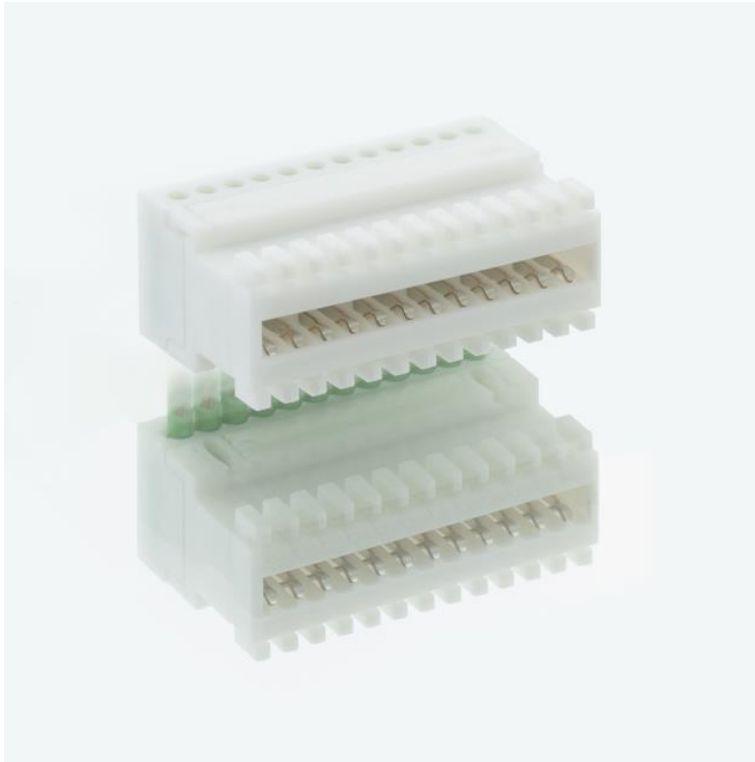
Now, for the first time, the RAST 1.5 mm connector system in insulation displacement technology is being launched. Compared to the already small RAST 2.5, it saves another 43 % in size and is designed for currents up to 1 A. A significant proportion of previous RAST 2.5 connectors are used below 1 A and can now be replaced by RAST 1.5 to save space on the PCB. The characteristic RAST coding is available as well as the option of fully automated cable assembly. The weight saving due to reduced conductor cross-sections is then 40 %.

The 2- to 12-pole connector with a contact resistance  $\leq 5 \text{ m}\Omega$  can be used to realize rated currents of 1 A (at  $T_{\text{amb}} 85 \text{ }^\circ\text{C}$ ) with a rated voltage of 48 V. The conductors that can be connected in the insulation displacement area allow cross-sections of 0.14 to 0.22 mm<sup>2</sup>.

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

**Photo 1 (© Lumberg):** LUMBERG\_RAST 1.5\_3310\_12-polig.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 89 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 1,150. Subsidiaries in Europe, America and Asia form a dense sales network. In 2021, the Group's turnover totaled some Euro 157,7 m. Over 20,000 catalog and customized products are proof of the company's efficiency.

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