

Advanced Contact Technology

Multi-Contact

MC

STÄUBLI GROUP

Applications

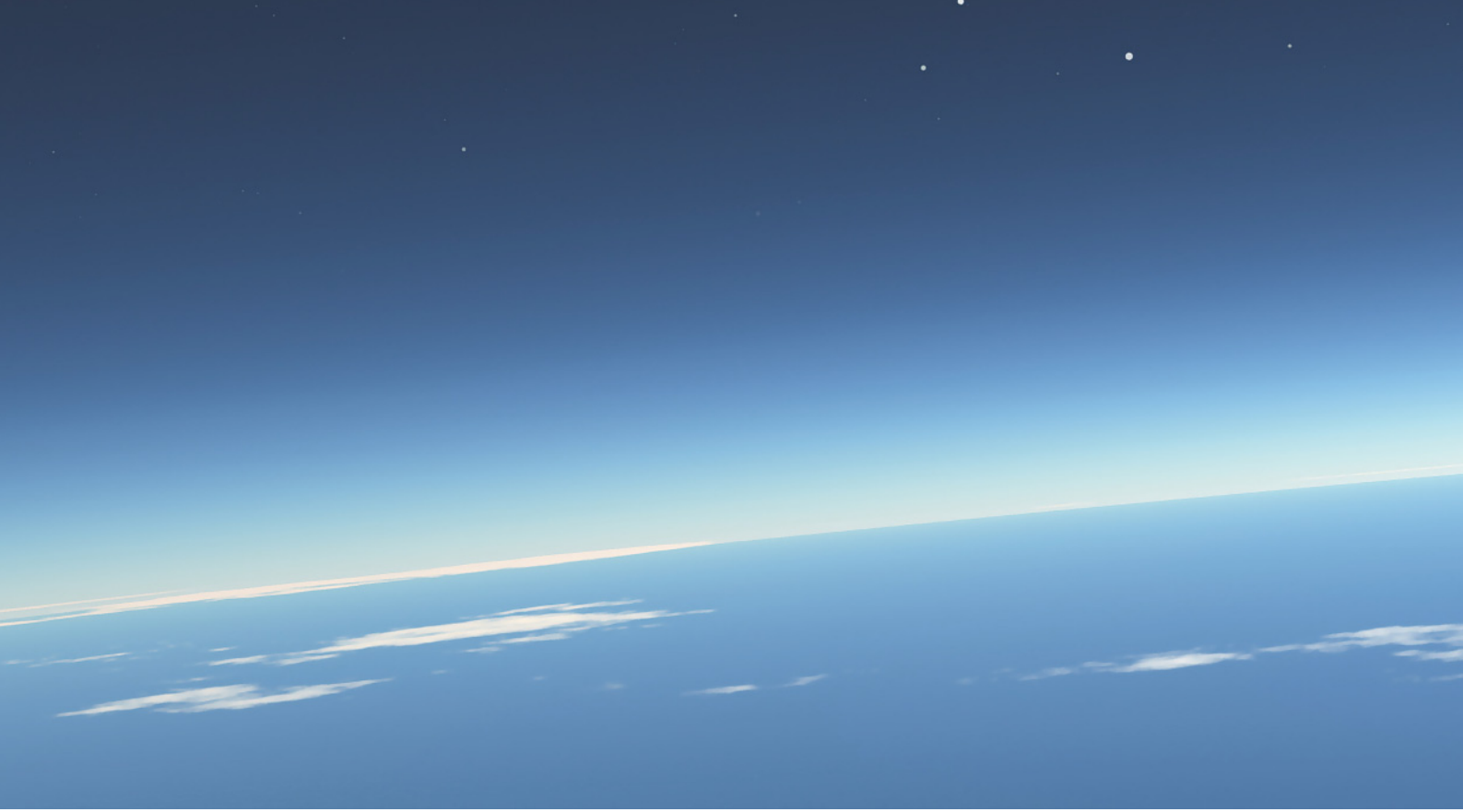
Verbindungssysteme für die Luftfahrttechnik
Connection Systems for Aerospace
Connecteurs pour l'Aéronautique

Your Connection Solutions for Aerospace

Rack & Panel Connection Solutions
Electrical Contacts from AWG26 to AWG0000



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Multi-Contact: the solution to your connector requirements

With over 45 years' experience in manufacturing high quality electrical connectors for all industry sectors, Multi-Contact has the connectors for every application.

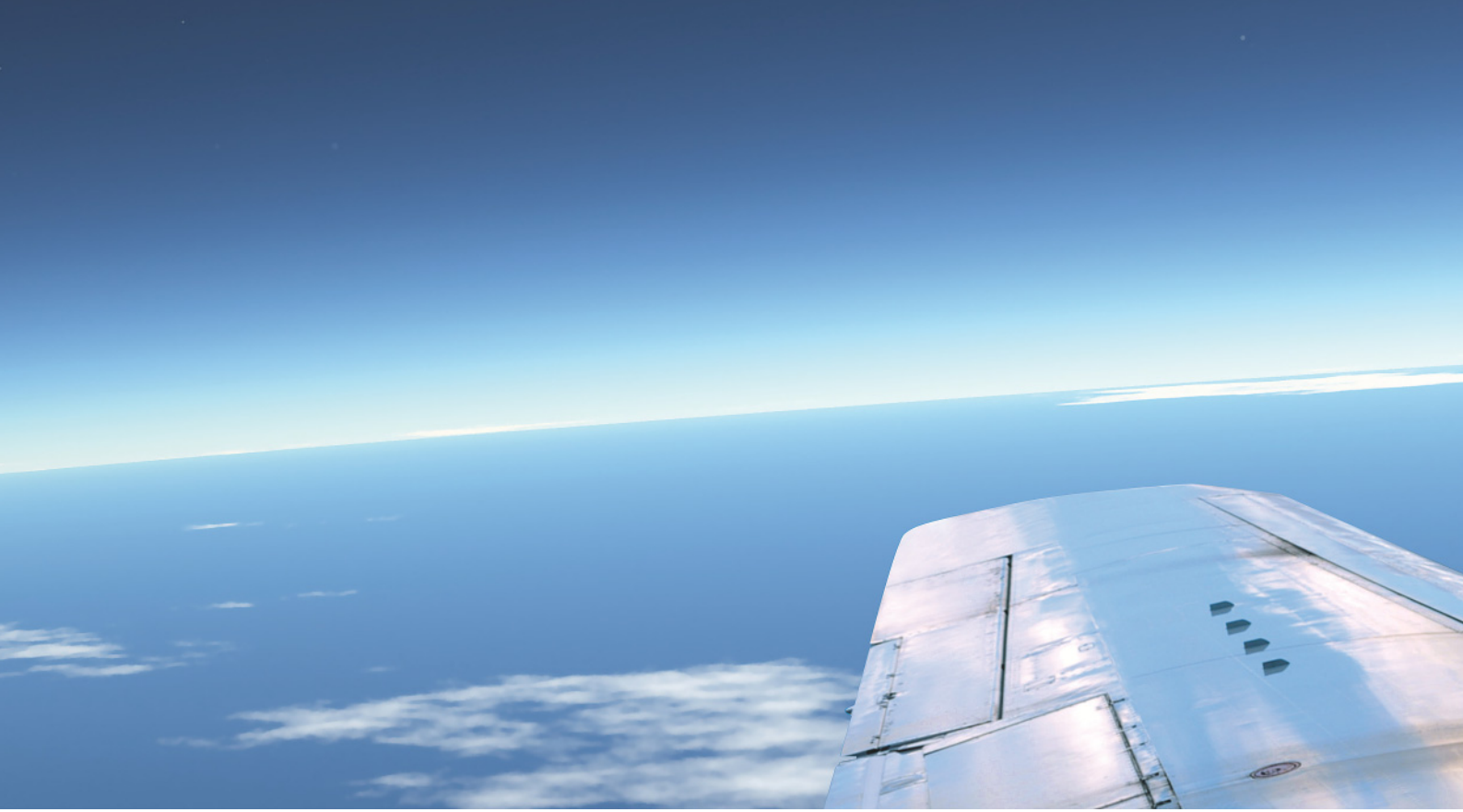
Multi-Contact is part of the Swiss-based Stäubli Group, a world leader in contact technology. With its in-depth understanding of technical refinements and practical design, the company is committed to the production of high-quality electrical connectors.

The development of specially formed copper alloy strips for contact elements – known as MC Multilams – was a major breakthrough for the company, which has since progressed from strength to strength. MC Multilams offer substantial improvements over conventional contact systems. Their louvered strip design has been developed into a whole system of contact elements for countless new applications.

As well as its enormous range of standard connectors with their legendary contact qualities, MC provides customers with innovative solutions to meet specific requirements using MC Multilam technology. Our high added value connectors and contact systems satisfy the most demanding requirements for high reliability aerospace applications.

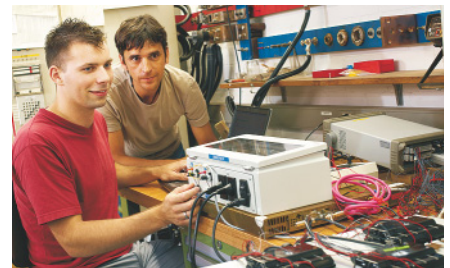
The experience gained over this time has enhanced our technical expertise and enables us to meet the stringent technical requirements demanded by this sector.





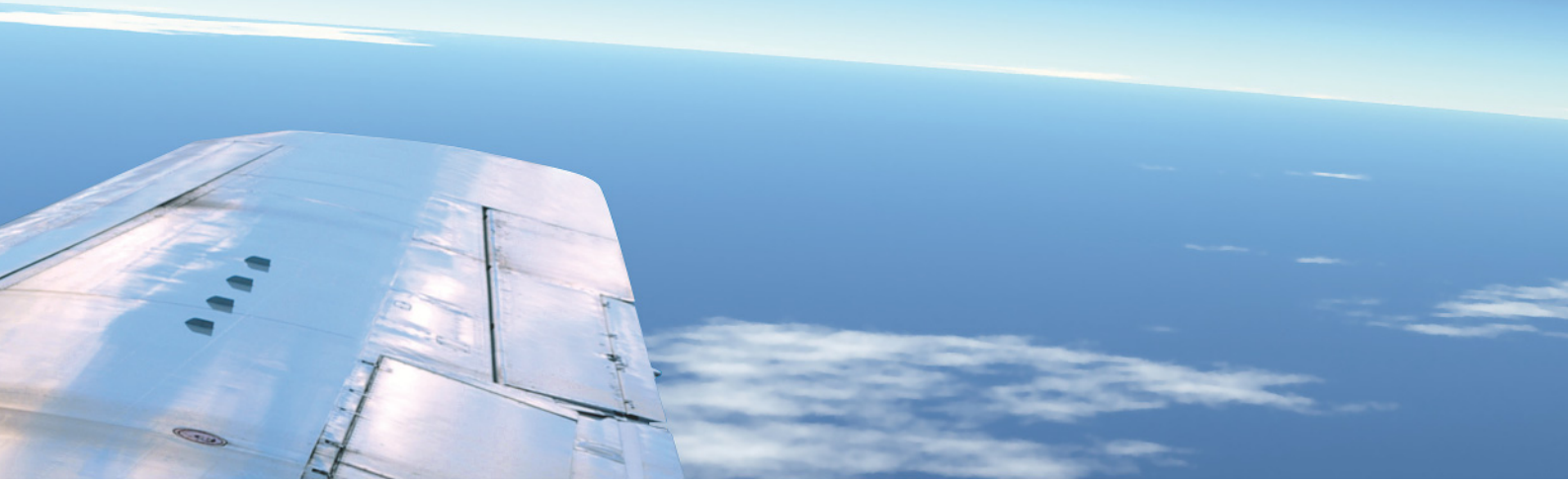
Research and Development

Our R&D Department can design the precise combination of functions required for your application. Particular attention is paid to interfacing Multi-Contact components with your equipment and incorporating technical enhancements. This demands a precise definition of your technical requirements to ensure the success of your application.



For this we use the latest high performance technology, including powerful CAD systems, rapid prototyping machines and dedicated test equipment. Qualification tests validate the design of Multi-Contact connectors by checking the suitability of components defined by your specifications.



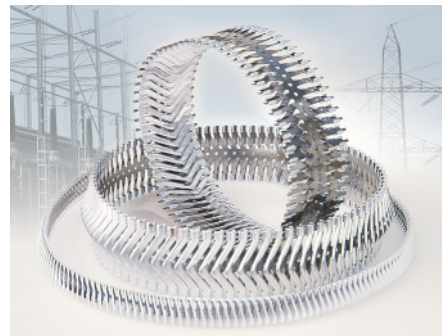


MC Multilam Technology: the sky is the limit

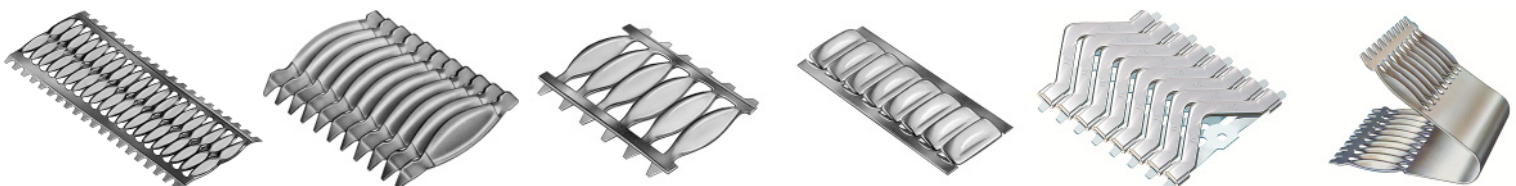
Multilams are specially formed, resilient strips of copper alloy which are gold or silver-plated according to their application and are float-mounted in a groove. Their spring action has a self-cleaning effect on the contact surfaces, as well as maintaining a constant contact pressure.

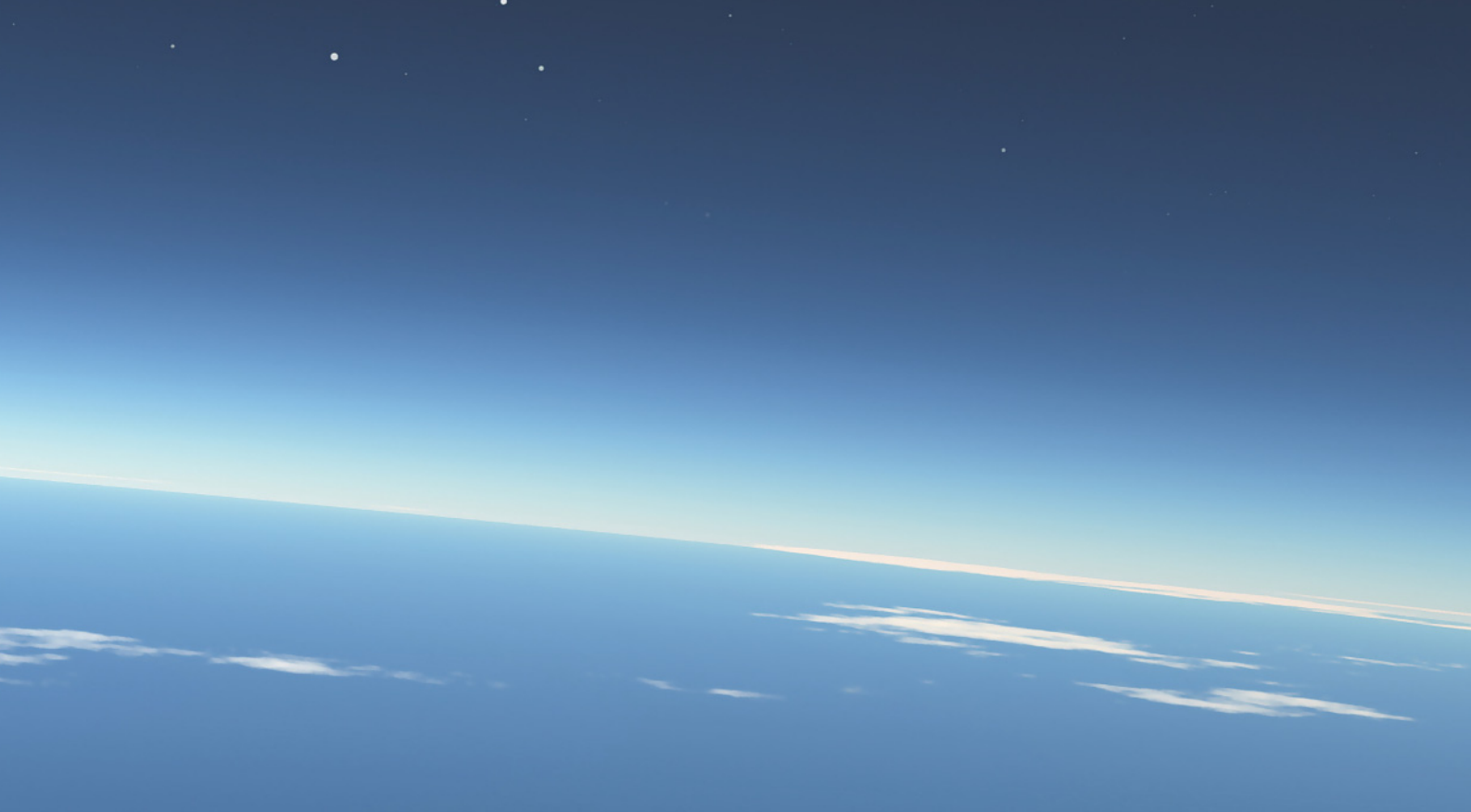
Multilam technology allows us to meet a very broad range of requirements and to find solutions to the most severe constraints, including electrical (from Watts to MegaWatts), thermal (up to 400°C) and mechanical, with contact durability of up to 1 million mating cycles.

We are also specialists in the design and manufacture of dynamic contacts (rotary and linear sliding) with high resistance to shock and vibration.



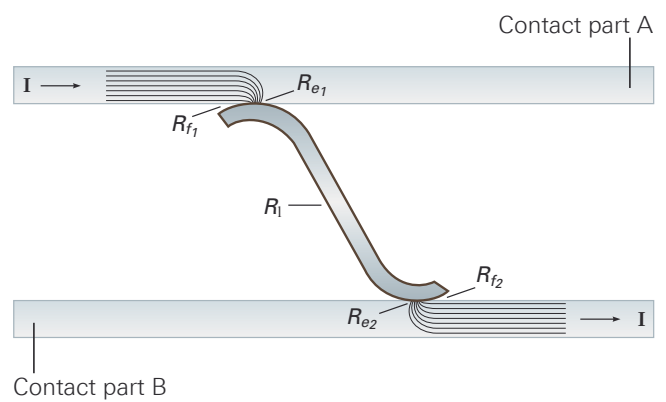
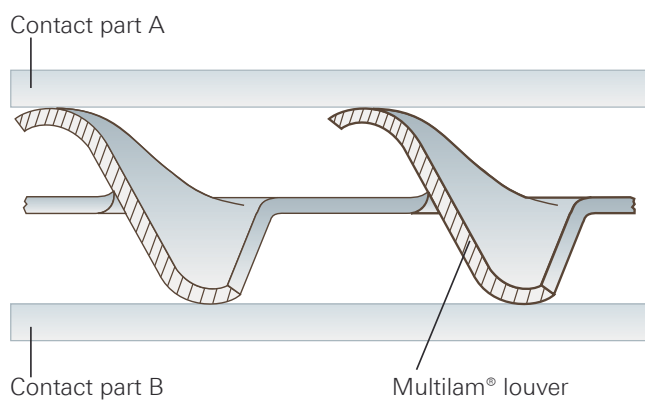
The right technology for the strictest requirements





Advantages of Multilam Technology

- Minimal voltage drop
- High current-carrying capacity
- Minimal power loss
- Minimal contact resistance
- High durability contacts withstand up to 1 million mating cycles
- Operating temperatures up to 400°C
- Resistance to corrosion and salt spray
- Self-cleaning contacts
- Good resistance to fluids such as oils, acids and alkalis
- High resistance to vibration
- Low maintenance costs
- Round, flat or spherical types



Electrical contacts from AWG26 to AWG0000

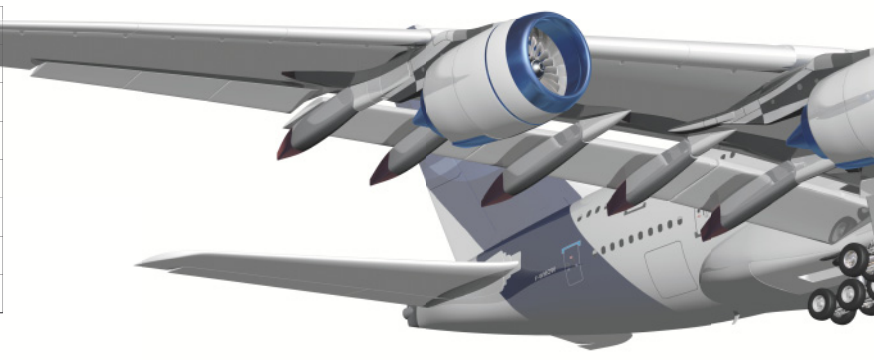
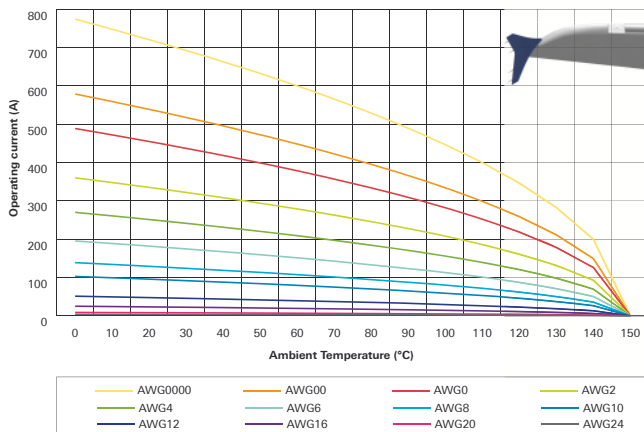
Power distribution and relay sockets

Power Contacts for interconnection solutions



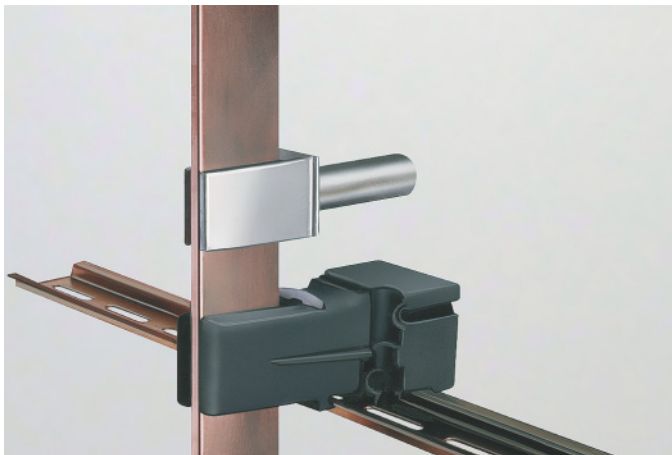
Derating diagram – temperature vs. current for electrical contacts AWG26 to AWG0000 (Cu)

Based on single conductors in free air. Wire cross-section same size as pin contact cross-sectional area.



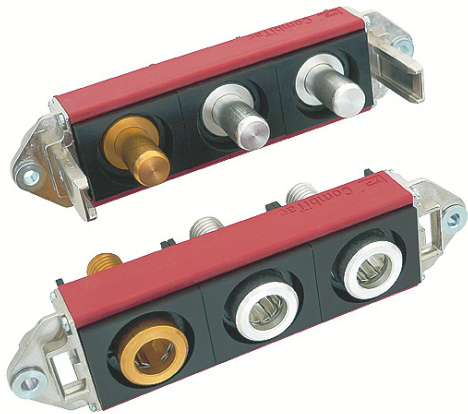
Blind mate/rack and panel connectors

Power connection for PCBs and busbars

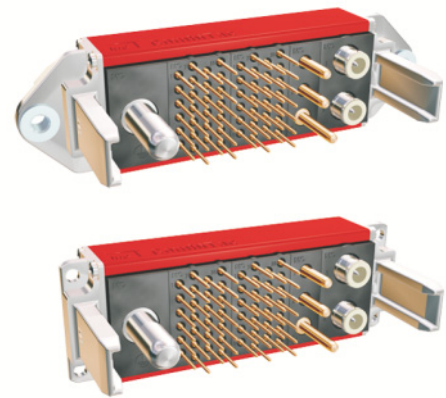


Fork plugs for busbars and PCBs from 0.8mm to 5mm thickness

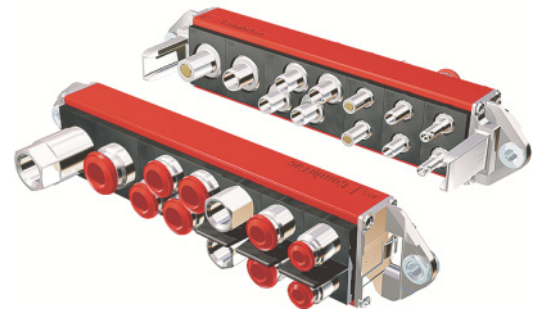
Multi-type connectors: electrical and cooling



Electrical connectors integrating 3 power contacts (rated current: 300A)

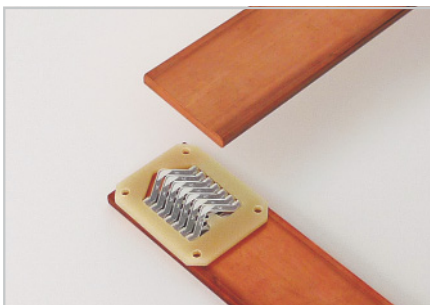


Electrical connectors integrating signal and power contacts

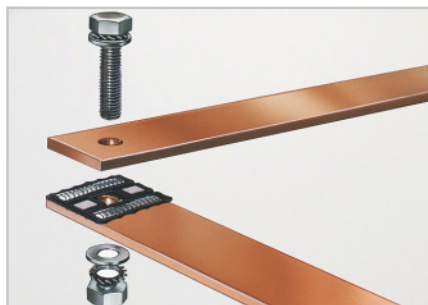


Connectors for compressed air and coolants

Flat connection system



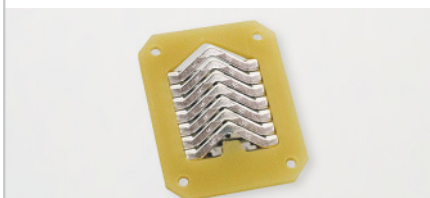
Contact plate: flat connection of power distribution busbars



SEALconTACT: reliable static contact for Al/Al or Cu/Al connections



Cliplam CL-T: modular contact system for bipolar busbars



Contact plate in detail



SEALconTACT in detail



Cliplam in detail

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