

STAMPING PORTFOLIO



Amphenol Automotive

Amphenol-Tuchel Electronics GmbH

GLOBAL INNOVATION

Pioneering stamped contact technologies for tomorrow's mobility solutions.

Amphenol-Tuchel Electronics GmbH operates across three strategic locations: Germany, Tunisia and Mexico, employing over 750 professionals worldwide.

We specialize in innovative, customizable connector solutions tailored to the demands of the electric vehicle market. Our product portfolio focus is on three key families:

- **Stamping contact terminals**
- **Safety systems and airbag connectors**
- **High-power and high-voltage components**

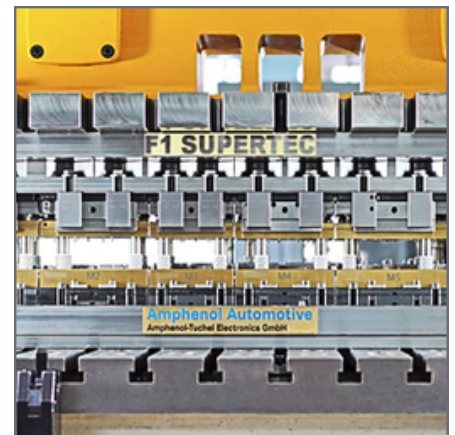
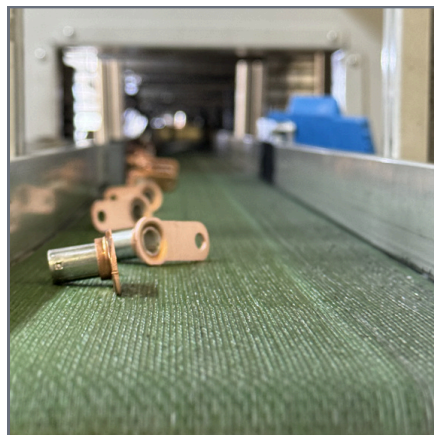
Our precision in stamping technologies and high-quality contact terminals is tailored to meet the evolving needs of the automotive industry.

ENGINEERED WORLDWIDE. TRUSTED EVERYWHERE.

A global network built for performance, precision, and scalability.

At Amphenol-Tuchel Electronics GmbH, we are committed to delivering scalable, high-performance stamping solutions that enable efficient electrical and electronic systems. From standard terminals to customized geometries, our products are designed for precision, robustness, and integration into modern vehicle architectures.

Our certified production sites in Heilbronn/Germany, El Fahs/Tunisia and Monterrey/Mexico feature advanced technologies and follow ISO 14001, IATF 16949 standards, ensuring consistent quality and agile global support.



PRECISION STAMPING SOLUTIONS

Our stamping family delivers high-performance contact terminals, designed for accuracy, durability, and seamless integration into modern vehicle systems. With state-of-the-art machinery and progressive stamping technology, we ensure consistent quality and efficiency across large-scale production.

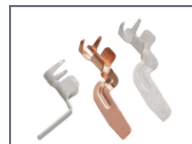
Our stamping capabilities include high-speed presses, precision tooling, and automated handling systems, enabling us to produce complex geometries with tight tolerances while maintaining cost efficiency and scalability.



STAMPING PARTS



1. 9.5 AFK – Flat Contact



5. N15180 Cable Bridge



**2. 9.5 AFK - Flat Contact
- Folded**



**6. N9588 Shorting
Clip AK2**



**3. 1.2 AFK – Receptacle
Terminal**



**7. N9588 Contact
Pairs**

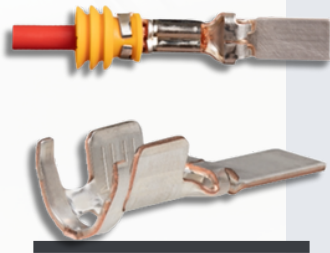


4. N9588 Blade Receptacle



**8. N9588 Shorting
Clip**

STAMPING PARTS

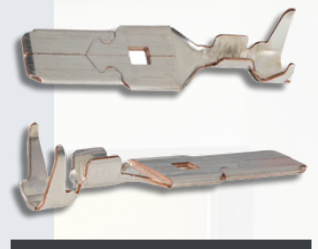


1. 9.5 AFK - Flat Contact

The **9.5 AFK - Flat Contact** combines robust construction with excellent electrical properties. With a versatile crimp range of 4/6/10/16 mm², it delivers flexibility across applications while supporting high current loads: up to 115A at 21°C and 90A at 80°C (at 10 mm² with Ag surface). Designed for durability, the 9.5 AFK withstands temperatures from -40°C to +170°C, making it a trusted choice for modern automotive electrical systems.

2. 9.5 AFK - Flat Contact - Folded

The **9.5 AFK - Flat Contact - Folded** offers excellent electrical performance in a streamlined format. With a crimp range of 2.5/4/6mm², it ensures adaptability across multiple wiring needs while maintaining efficient current transmission: up to 75 A at 21°C and 60 A at 80°C (at 6 mm² with Ag surface). The 9.5 AFK Folded terminal withstands temperatures from -40°C to +150°C, ensuring robust and dependable connections throughout the vehicle's electrical architecture.

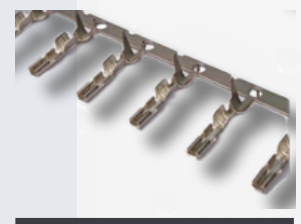


3. 1.2 AFK - Receptacle Terminal

The **1.2 AFK Receptacle Terminal** is a high-performance solution for automotive applications, combining a unique one-piece CuNiSiMg construction with Sn or Ag plating for excellent electrical reliability. With a current-carrying capacity of 14.2 A at 21°C and 9.8 A at 80°C, and a maximum operating temperature of 150°C, the 1.2 AFK ensures durable, efficient performance.

4. N9588 Blade Receptacle

Designed for reliability under high vibration and temperature environments. offers low insertion force, excellent conductivity, and durable surface plating for long service life.



STAMPING PARTS



5. N15180 Cable Bridge

Robust stamped bridge solution that features optimized geometry for space saving integration and high current carrying capability, ensuring efficient energy transfer in compact assemblies.

6. N9588 Shorting Clip AK2

Compact shorting element engineered to ensure safe circuit continuity or discharge during connector disconnection. It offers precise spring tension and reliable self retention, ideal for safety-critical applications in automotive systems.

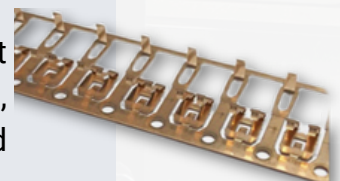


7. N9588 Contact Pairs

Pre-aligned terminal sets designed for accurate mating, low contact resistance, and enhanced current stability. The N9588 Contact Pairs ensure repeatable performance across multiple insertions, supporting both signal and power transmission in demanding environments.

8. N9588 Shorting Clip

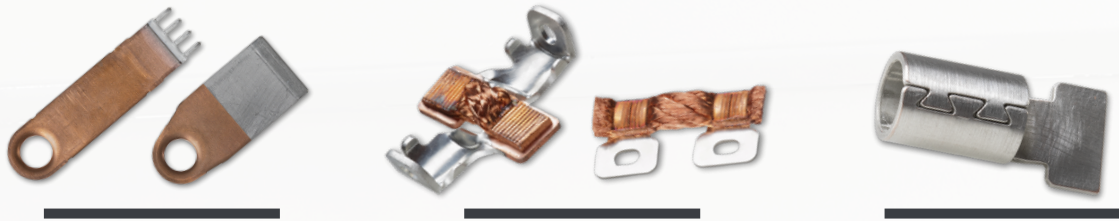
Stamped shorting component designed for temporary or permanent electrical bridging. Its compact form factor, robust spring design, and optimized surface finish guarantee secure engagement and consistent performance during handling and assembly.



BUSBARS

Busbar Solutions

Our busbars are engineered for efficient power distribution in high-current automotive applications, offering excellent conductivity, mechanical strength, and integration flexibility. Designed for processes such as press-fit pin insertion or direct busbar integration, they enable reliable electrical connections while supporting simplified assembly. Optional overmolding with insulating materials (e.g. black insulation) ensures enhanced safety, protection, and durability within complex system architectures.



Amphenol Automotive

Amphenol-Tuchel Electronics GmbH

FOR EVERY CURRENT THAT COUNTS

Our **stamping components** are engineered with precision, ensuring reliability in the most demanding applications.



CONTACT US

Get in touch to explore how our products can support your next project.



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