

Amphenol Automotive
Amphenol-Tuchel Electronics GmbH

Rev 2: 02.2026

HIGH VOLTAGE PORTFOLIO



Amphenol Automotive

Amphenol-Tuchel Electronics GmbH

GLOBAL INNOVATION

Pioneering high-voltage connectivity solutions for tomorrow's mobility.

Amphenol-Tuchel Electronics GmbH operates across three strategic locations, employing over 750 professionals worldwide. We specialize in advanced high-power and high-voltage interconnect solutions engineered to meet the evolving demands of electrified mobility and next generation vehicle platforms. Our product portfolio focuses on three key families:

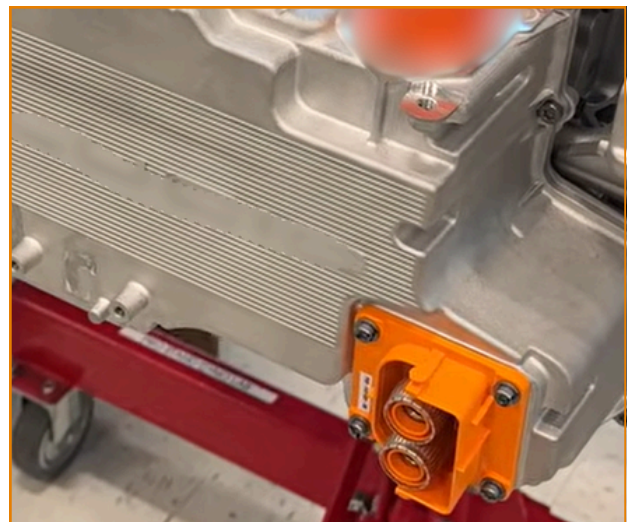
- Safety systems and airbag connectors
- High-power and high-voltage components
- Stamping contact terminals

With extensive expertise in power distribution and high-voltage architecture, we continuously develop technologies that enable efficient energy transfer, system protection, and long-term reliability for modern electric and hybrid vehicles.

ENGINEERED WORLDWIDE. TRUSTED EVERYWHERE.

At **Amphenol-Tuchel Electronics GmbH**, we are committed to delivering integrated, high-performance solutions for complex electrical systems. From scalable high-voltage distribution to robust power interfaces, our technologies are designed for efficiency, durability, and safety in demanding environments.

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.



RELIABLE HV/HP SOLUTIONS

Our **high-voltage and high-power** families deliver robust interconnect solutions engineered for efficiency, safety, and seamless integration into modern electrified vehicle systems. Leveraging advanced engineering, specialized production technologies, and rigorous validation processes, we ensure consistent performance and reliability across high-demand applications.

Our **HV/HP** capabilities include precision manufacturing, automated assembly, and strict quality control systems, enabling us to produce complex power interconnect components that meet tight tolerances while maintaining scalability, durability, and cost efficiency.

HV/HP PARTS

RADSOK®



- 4mm RADSOK®
- 6mm RADSOK®
- 8mm RADSOK®
- 14mm RADSOK®

HEAVYSOK®



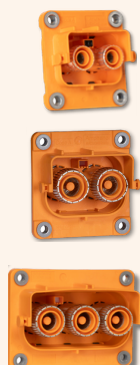
- 4mm 180°
HEAVYSOK® - 4SC
- 8mm 180°
HEAVYSOK® - 2SC
- 8mm 180°
HEAVYSOK® - 3SC
- 14mm 180°
HEAVYSOK® - 2SC

POWERSOK®



- 8mm 90° POWERSOK® - 2SC
- 14mm 90° POWERSOK® - 2SC
- 14mm 90° POWERSOK® - 3SC

- 8mm 90°
POWERSOK® - 2SC Header
- 14mm 90° & 180°
POWERSOK® - 2SC Header
- 14mm 90°
POWERSOK® - 3SC Header



4mm Female
Receptacle - 4way



8mm Female
Receptacle - 2way



8mm Female
Receptacle - 3way



8mm Female
Receptacle - 6way



14mm Female
Receptacle - 2way



HV/HP SOLUTIONS



RADSOK®

4mm RADSOK®, 6mm RADSOK®, 8mm RADSOK® and 14mm RADSOK®

Premium contact system technology for efficient energy transfer and durability. Available in small, medium and large sizes.

8mm 90° POWERSOK® - 2SC

This connector features a robust plastic housing and silver-plated copper contacts, delivering up to 260 A at 80 °C and supporting voltages up to 1000 V. With a secure locking lever, 360° shielding, IP6K7/IP6K9K sealing, and ultrasonic-welded terminations, it ensures safe, reliable performance in demanding environments.

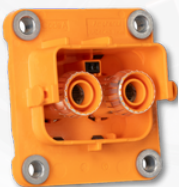


14mm 90° POWERSOK® - 2SC

This connector features a durable plastic housing and silver-plated copper contacts, delivering up to 384 A at 80 °C and supporting voltages up to 1000 V for demanding operating conditions. Equipped with a robust locking lever with LPA, 360° shielding, IP6K7/IP6K9K sealing, and ultrasonic-welded terminations for Al or Cu conductors

14mm 90° POWERSOK® - 3SC

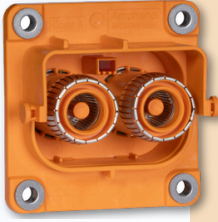
This connector features a robust plastic housing and silver-plated copper contacts, supporting up to 1000 V and ensuring reliable performance under demanding conditions. With a secure locking lever and LPA, 360° shielding, IP6K7/IP6K9K sealing, and ultrasonic-welded terminations for Al or Cu conductors



8mm 90° POWERSOK® - 2SC Header

A robust plastic housing with silver-plated copper contacts, supporting 260A/1000V. Screwed Ø8mm RADSOK interface with full shielding and IP6K7/IP6K9K protection ensures secure, reliable connections.

HV/HP SOLUTIONS

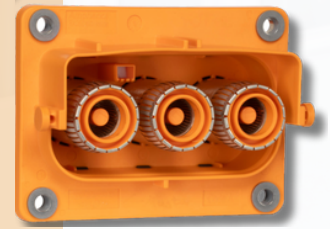


14mm 90° & 180° POWERSOK® - 2SC Header

A robust plastic with silver-plated copper contacts, supporting up to 385A/1000V. Screwed Ø14mm RADSOK interface with full shielding and IP6K7/IP6K9K protection ensures secure, reliable high-power connections.

14mm 90° POWERSOK® - 3SC Header

A robust plastic housing with silver-plated copper contacts, supporting up to 385A/1000V. Screwed Ø14mm RADSOK interface with full shielding and IP6K7/IP6K9K protection ensures secure, reliable high-power connections.

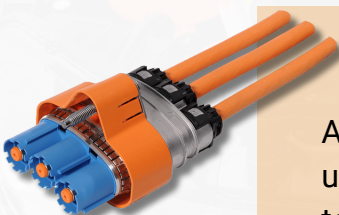
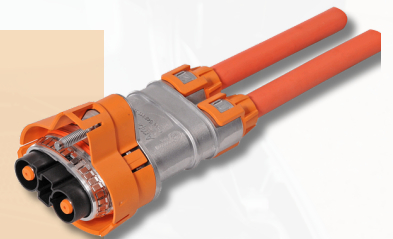


4mm 180° HEAVYSOK® - 4SC

Aluminum-alloy housing with silver-plated copper contacts, supporting up to 60A/800V. Robust M6 flange connection with Ø4mm pin terminal, full shielding, and IP6K9K sealing ensures secure, touch-proof, and reliable high-power connections.

8mm 180° HEAVYSOK® - 2SC

Aluminum-alloy housing with silver-plated copper contacts, supporting up to 240A/800V. Robust M6 flange connection with Ø8mm pin terminal, full shielding, and IP6K9K sealing ensures secure, touch-proof, and reliable high-power connections.



8mm 180° HEAVYSOK® - 3SC

Aluminum-alloy housing with silver-plated copper contacts, supporting up to 230A/800V. Robust M6 flange connection with Ø8mm pin terminal, full shielding, and IP6K9K sealing ensures secure, touch-proof, and reliable high-power connections.

HV/HP SOLUTIONS



14mm 180° HEAVYSOK® - 2SC

Aluminum-alloy housing with silver-plated copper contacts, supporting up to 270 A/800 V. Robust M6 flange connection with Ø14 mm pin terminal, full shielding, and IP6K9K sealing ensures secure, touch-proof, and reliable high-power connections.

4mm Female Receptacle - 4way

Touch-proof header with silver-plated Ø4 mm pin terminal, supporting up to 60 A/800 V. Designed for internal mounting, it ensures secure, reliable connections with multiple coding options and stable performance from -40 °C to +125 °C.

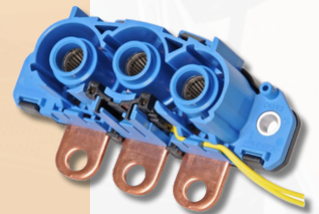


8mm Female Receptacle - 2way

Press-in header with silver-plated Ø8 mm pin terminal, supporting up to 240 A/800 V. Designed for battery housing integration, it ensures secure high-power performance with multiple coding options and reliable operation from -40 °C to +125 °C.

8mm Female Receptacle - 3way

Press-in header with silver-plated Ø8 mm pin terminal, supporting up to 230 A/800 V. Designed for gearbox housing integration, it delivers secure high-power performance with multiple coding options, strong vibration resistance and reliable operation from -40 °C to +125 °C.



8mm Female Receptacle - 6way

Press-in header with silver-plated Ø8 mm pin terminal, supporting up to 180 A/800 V. Designed for gearbox housing integration, it ensures reliable high-power performance with multiple coding options, strong vibration resistance and reliable operation from -40 °C to +125 °C.

HV/HP SOLUTIONS



14mm Female Receptacle - 2way

Press-in header with silver-plated $\varnothing 8$ mm RADSOK contacts, supporting up to 240 A/800 V. Designed for battery housing integration, it ensures secure high-power performance with multiple coding options and reliable operation from -40 °C to $+125$ °C.

8mm 90° SMARTSOK® - 1S

Compact one-way connector with silver-plated $\varnothing 8$ mm RADSOK contact, supporting up to 240 A (<60 V). Featuring CPA locking, IP6K9K sealing, and ultrasonic-welded termination. This touch-proof connector ensures secure, reliable performance with easy installation and multiple coding options.



4mm 90° SMARTSOK® 1 CPA Lock

Compact 90° connector with silver-plated $\varnothing 4$ mm RADSOK contact, supporting up to 102 A (<60 V). Featuring a locking slider with CPA, touch-proof design, and crimp termination, it ensures secure positioning and reliable performance in compact installations.



4mm 90° GROUNDSOK®

Self-locking connector with silver-plated $\varnothing 4$ mm RADSOK contact, supporting up to 100 A (<60 V). Designed for simple, interface-free installation, it ensures reliable performance with spring-lock functionality and flexible cable termination up to 16 mm².



8mm 180° BATSOK®

Compact touch-proof connector with robust plastic housing and silver-plated $\varnothing 8$ mm RADSOK contact, supporting up to 250 A (850 V nominal / 1000 V peak). Featuring CPA locking, resistance-welded termination, and a space-saving design with dual coding, it ensures secure and reliable high-power performance.



HV/HP SOLUTIONS

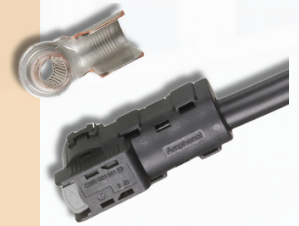
8mm 180° Inline Connection



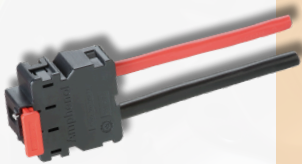
180° inline connector with silver-plated Ø8 mm RADSOK contact, supporting up to 95A (<60V). Featuring CPA locking, crimp termination, and standard fixing elements, it ensures reliable performance in 48V electrical systems with IP6K9K leak-tightness.

8mm Active PinLock

90° angled touch-proof connector with robust plastic housing and silver-plated Ø8mm RADSOK contact, supporting up to 205A (50 mm² / 60V). Featuring a serviceable locking button, TPA, and crimp termination, it ensures secure, reliable high-power connections with multiple coding options.



HCC 3.6mm Connector



90° angled connector with robust plastic housing and silver-plated Ø3.6mm RADSOK contacts, supporting up to 85A (<60V). Featuring a serviceable locking design, optional CPA, integrated cable retention, and crimp termination, it ensures secure and reliable low-voltage connections for 2×10 mm² wires.

180° HVAC Pass Through Connector - 3SC

Robust flange connector with tin-plated M5 power contacts, supporting up to 250A/800V. Featuring resistance-brazed terminations, full shielding, and IP6K9K sealing, it ensures secure, reliable high-power connections for 3×50 mm² cables.



Amphenol Automotive

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WHERE HIGH VOLTAGE MEETS HIGH PERFORMANCE

Our high-voltage and high-power components are engineered for safety, efficiency, and reliable operation in the most demanding environments.



CONTACT US

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



info@amphenol-automotive.de



www.amphenol-automotive.de