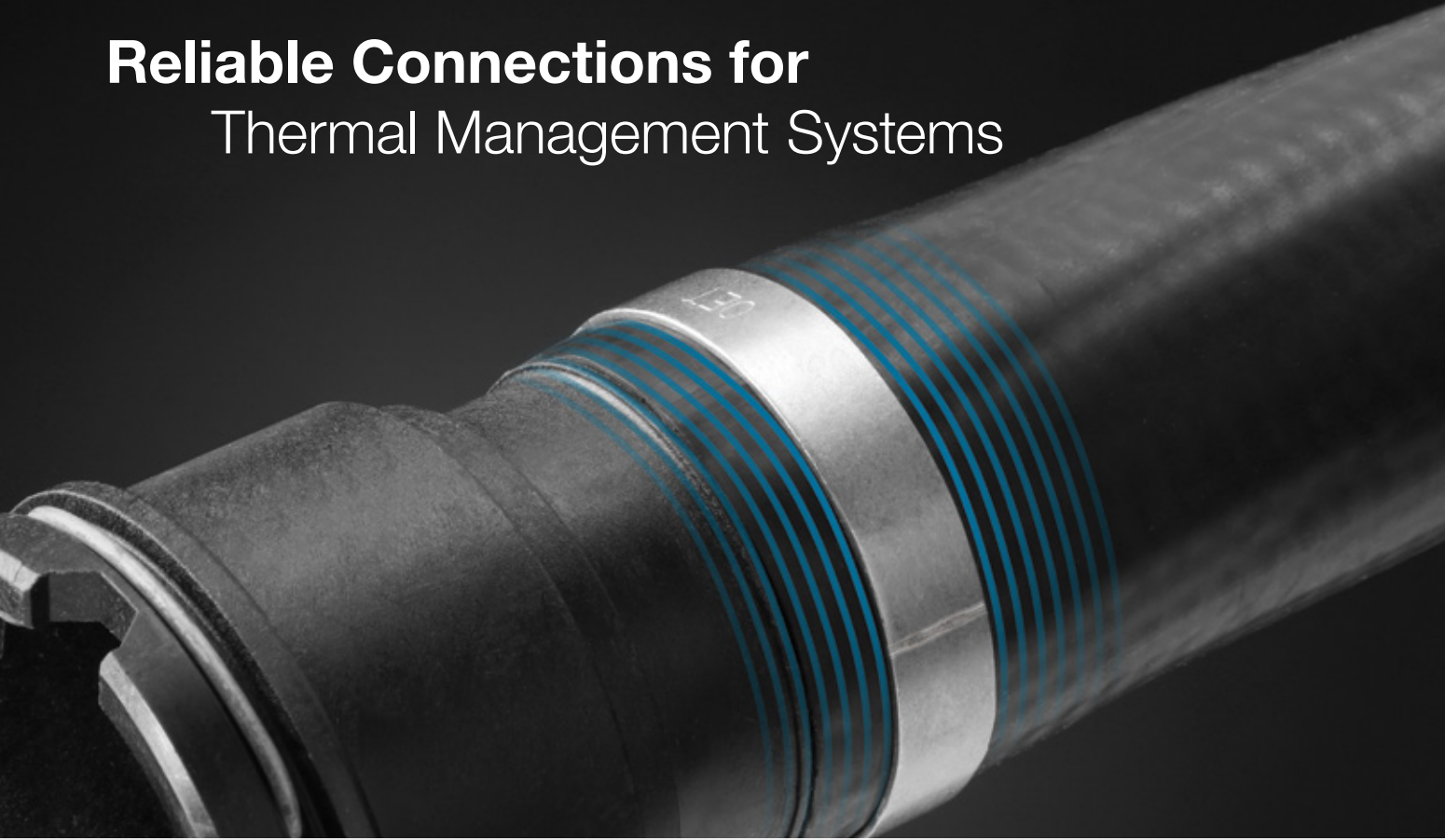


Reliable Connections for Thermal Management Systems



High performance
Assembly friendly
Space efficient

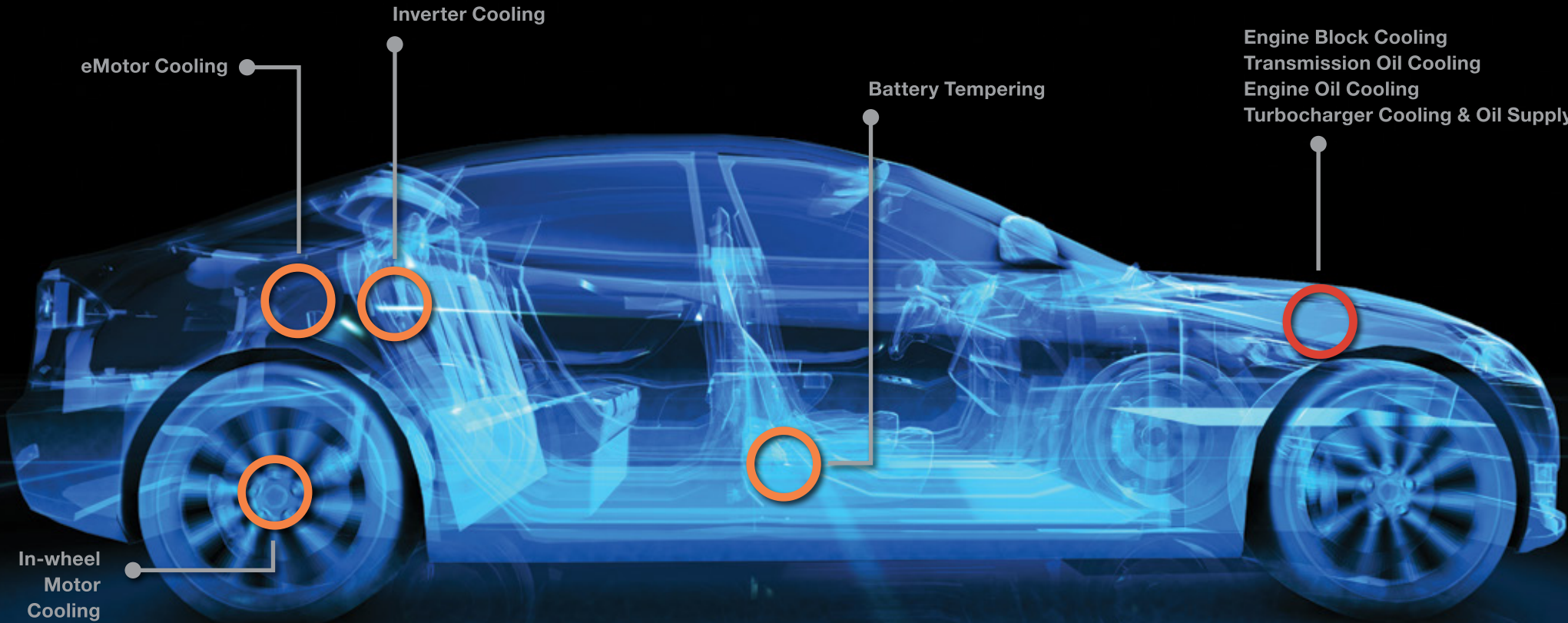


Reliable Connections

Tailored solutions

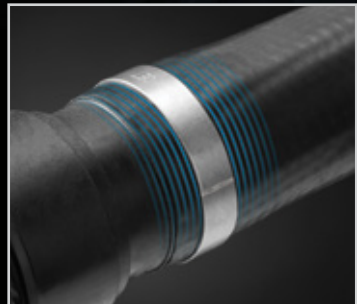
Engineered for reliability

Our quality is confirmed on more than 90 million vehicles annually and featured on virtually every vehicle manufactured globally.



● Electric Propulsion Applications

● Internal Combustion Engine Applications



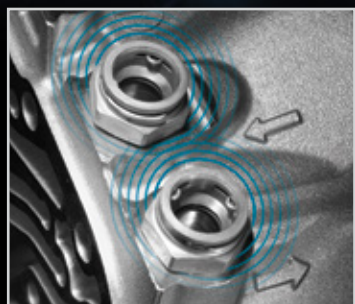
Cooling System
Multi Crimp Ring



eMotor Cooling
Quick Connector & StepLess®
Ear Clamp



**Engine and Transmission
Oil Cooling**
Quick Connector



Transmission Oil Cooling
Quick Connector

Global Customer Support

For all Phases of Development

Advanced Engineering

- Consultative engineering
- Dedicated localized support
- Rapid prototyping and machining
- CAD modeling & 3D printing

Early Development

- Technical design analysis
- Custom-build solutions
- Tailor-made prototypes
- Functional testing

Systems Integration

- Advanced testing & validation
- Assembly solution engineering
- Tailored assembly tools
- Pre-production support

Production

- Global quality assurance
- Worldwide production
- On-site technical support
- Commissioning & maintenance

Support & Maintenance

- Tool training and assistance
- Assembly validation
- Maintenance and calibration
- Tool and software upgrades

GLOBAL FOOTPRINT AND LONG-TERM COMMITMENT

With 14 manufacturing facilities worldwide producing more than 2 billion connections per year in over 30 countries, Oetiker is the trusted, global, long-term partner of the world's leading OEMs.



COOLING & HEATING CONNECTIONS



Quick Connector 201 & 210

201 Coated steel
210 Aluminum

Tube size range: 8.0 – 25.4 mm

One piece machined body is lightweight and ideal for compact spaces. Controlled axial clearance prevents micro leakage. Minimum pressure drop ensures optimum flow.



Quick Connector Customization

Quick connectors can be customized in a variety of ways. Additional accessories also available.

Customization:	Accessories:
Material	Assurance Caps
Coatings	Shipping Plugs
Seals	Disconnect Tools
Valves	
Application interfaces	



Multi Crimp Ring 150 & 250

Stainless steel
5.0 – 120.5 mm

Full material cross-section over 360° for constant pressure applied uniformly around the circumference offers leak-free sealing with low assembled height.



StepLess® Ear Clamp 193

193 Stainless steel
6.5 – 120.5 mm*

Provides a 360° leak-free seal. Lightweight, strong, tamper-proof design. Offers high radial loads and compensates for component tolerances.

*6.5 – 18.0 mm sizes available in the StepLess® Ear Clamp 167 design.



StepLess® Screw Clamp 178

Stainless steel
18.0 – 255.0 mm

Can be adjusted to several diameters and features a 360° leak-proof seal. Also available in Self-Tensioning. Reusable.



StepLess® Low Profile Clamp 192

Stainless steel
19.5 – 120.5 mm

Low profile design includes tolerance compensation elements to allow for variations in component tolerances.

Includes 360° leak-proof seal.

Please visit www.oetiker.com for complete product information.

PEACE OF MIND FROM RELIABLE CONNECTIONS

Assembly tool and maintenance support are managed through dedicated in-house service teams, ensuring cooling & heating connections are installed properly every time during production.



ASSEMBLY TOOLS



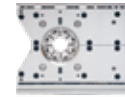
Swaging Tools

For high-volume installation of Multi Crimp Rings.

Available interlocking swaging segments guarantee uninterrupted 360° compression

Fully reliable assembly process

Electronic process data tracking capability



Pneumatic Pincers

For high-volume assembly of Ear Clamps and Low Profile Clamps.

Highly efficient

Process reliable

Closure verification

Ergonomic pistol grip (optional)



Cordless Pincers

For assembly of Ear Clamps, Low Profile Clamps, Multi Crimp Rings (MCR)

Flexible cordless design

Process reliable

Closure verification

Ergonomic design



Hand Installation Tools

Manual Assembly Tools for installation of Oetiker products.

Quick and easy installation

Exponential gain of mechanical advantage

Secure grip and comfort

Reduced fatigue and risk of repetitive injury



Please consult an Oetiker representative or visit www.oetiker.com for a complete range of assembly tool options.

360° solution approach

Drives innovation

Oetiker helps customers drive innovation through all phases of development by utilizing our 360° solution approach. Pioneering reliable fastening components for over 75 years, we design, test and deliver high quality connecting and assembly solutions that are simpler, smarter and stronger than ever before.

