

HARTING Global.

Solutions for your applications.

Complex, growing international markets are demanding more specific solutions. The HARTING Technology Group offers electrical interfaces and additional interfaces that are tailored to your customised requirements. The market leader in the field of industrial connectors stands for solutions that are not only state-of-the-art, but also economically convincing. You, the customer, benefit from our decades of market experience and expertise. This support is essential to help you complete all required inspections and laboratory tests according to the latest standards for your new products and applications. HARTING's entire product portfolio and global business unit competence are available for you here. This global reach is perfect for our customers' requirements throughout the global market.

In addition to the production facility at our company headquarters in Espelkamp Germany, production can be rolled out globally with identically defined production processes and quality requirements.

Manufacturing inter-car jumper cables.



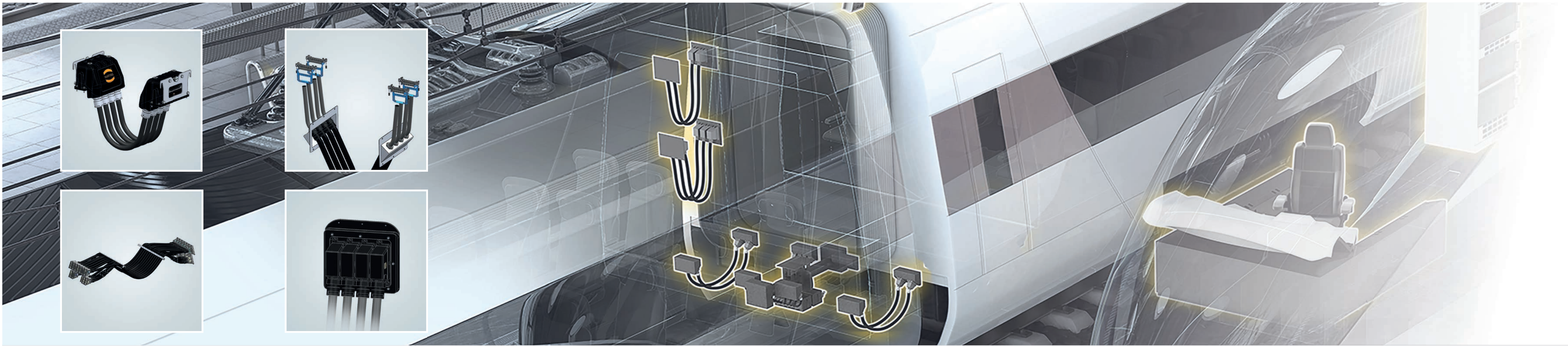
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HARTING

Your Partner for Inter-car Jumper Solutions



Our capabilities. Your advantage.

- **Conceptual design & design responsibility** for inter-car jumper solutions based on our decades of experience in the railway sector.
- **Selecting the proper components** according to the latest railway standards, including termination techniques, cables, and mechanical fasteners.
- **Qualified consulting** provided by our global network of experts.
- **Complete inter-car jumper solutions** adapted to suit your individual requirements.
- **Customised simulations and tests** carried out by our own accredited laboratory.
- **Costs reduced and time saved** due to our independent testing lab that gives the final approval for the inter-car jumper solutions.

Customised solutions. Your partner for inter-car jumper solutions.

The HARTING Technology Group accompanies you through technological transformations. We design tailor-made solutions to fit your customised requirements for inter-car jumper mounted between, under or on trains. Based on our wide range of connector products for power, data and signals, as well as the modularity of our Han-Modular® interfaces, we can develop detachable and fixed solutions for all requirements.

For your benefit
Our innovative components, consultants, services and systems help us to guide our customers into the digital future. From customer inquiries to series deliveries, we offer this as a complete project management service. Contact us for more information!



Vehicle roof



Under the inter-car floor

Outstanding quality. Accreditation and quality testing.

The HARTING name stands for superior reliability – worldwide. This is possible due to our uniform quality standards, a certified management system as well as constant quality testing of our products by our Quality & Technology Centre. In addition to the typical electrical and climatic vibration requirements, our connectors for inter-car jumper systems also meet the special quality characteristics required for usage in vehicles that are moving into each other. Before our products and solutions can be used by customers, they must pass extensive quality tests in our testing laboratory:

- Tests during the development process ensure that the high quality requirements are maintained.
- Analyses of quality and long-term behaviour by exposure to a variety of environmental conditions.
- Simulated aging using temperature and shock tests, as well as mechanical loads.
- Qualification and validation based on the customer's specifications and/or a standardised testing procedure.
- 100% testing of inter-car jumper solutions.



HARTING Quality and Technology Centre