

Inter-car (jumper systems) for rail vehicles

The car transition area is the interface between two rail vehicles. It enables the safe passage of passenger and ensures the mechanical and electrical connection of technical systems, such as power supply, sensors, and control systems. As one of the areas with the highest dynamic stress, the so-called jumper cables between the cars must withstand continuous bending, torsion, and tensile forces, as well as withstand weather conditions, wide temperature ranges, and high mechanical loads. In addition, strict requirements for fire protection and compliance with standards set clear safety-related parameters in the railway sector.



Challenges

- Extreme movements
- Vibration, impact and abrasion
- Weather and extreme temperatures
- Difficult-to-access installation space

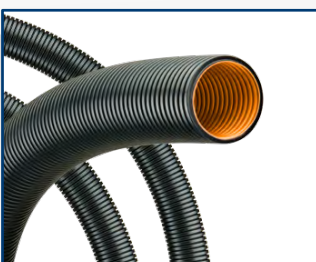
Solutions (product features)

- Highly flexible, durable systems
- Secure strain relief and fastening
- Relevant certifications (EN 45545)

Product recommendations

- [ROHRflex PA 12+ / PA 12F+](#)
- [RQM-tubing clamp system](#)
- [RQ GK / RQ GKZA / RQBK90 / RQBK45DR](#)
- [RQT-PA / RQY-PA / RQPRO-S](#)

To ensure the reliable transmission of data, signals, and power in the highly stressed jumper area, suitable, high-quality cable protection products are essential to provide long-lasting protection against mechanical and environmental stresses. This ensures that critical functions in the rail vehicle are maintained.



[ROHRflex PA 12F+](#)



[RQBK90DR](#)



[RQ GKST](#)



[RQM](#)