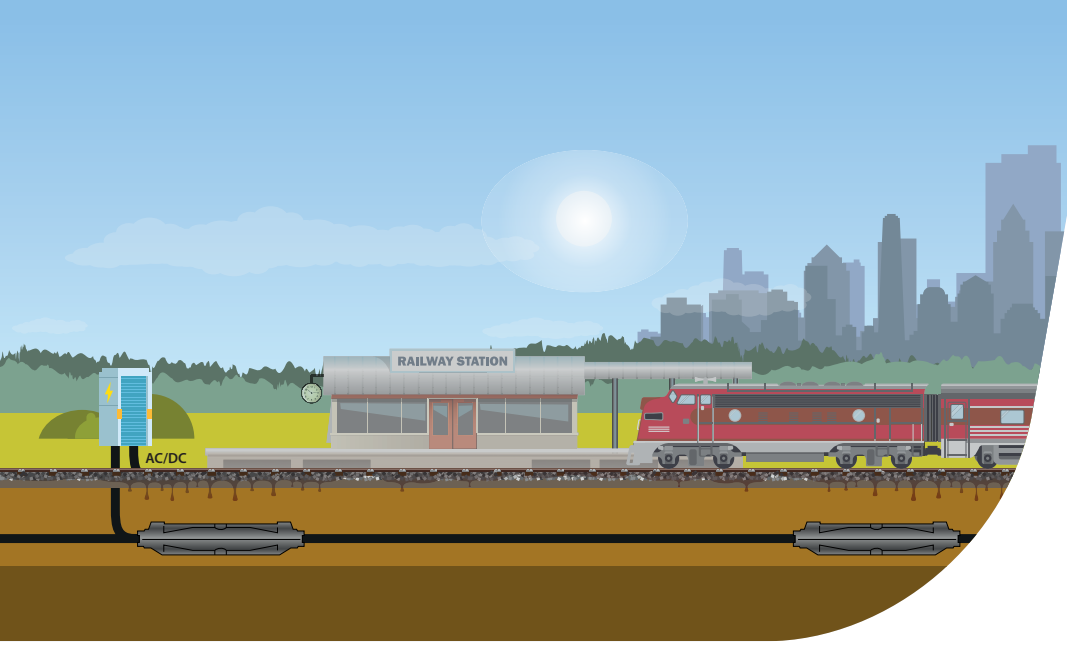
ROYAL LOVINK

Dedicated to a higher standard.

Connect with Lovink

Cable joints for Rail Infrastructure

Proven jointing solutions for rail infrastructure MV networks



Cable connections that keep the railway moving

Rail infrastructure places extremely high demands on reliable connections. The railway network is critical: a single failure in a cable route can immediately lead to stranded passengers, safety risks, and even nationwide disruptions. In an environment where downtime is not an option, cable connections are essential for continuity. Lovink supplies cable joints that go beyond standard solutions-engineered for long term reliability under the harshest conditions.

Built for the toughest rail conditions

Rail infrastructure networks endure constant stress: ballast with sharp stones, contaminated soil along diesel routes, large temperature fluctuations and heavy mechanical loads from train traffic. Furthermore, cable joints are increasingly exposed to Eddy Currents (swirl currents), which can cause localized overheating, as well as to voltage swells resulting from the braking and acceleration of trains.
On top of that, modern AC/DC converters introduce additional harmonic stress on cable systems. Lovink's cable joints are specifically developed to withstand these challenges.

Proven technology for maximum rail reliability

Lovink cable joints are mechanically reinforced with high quality polyurethane resin. LoviSil® joints offer an extra layer of electrical protection through liquid silicone insulation and can withstand water pressures up to 2 bar. The result: fewer outages, reduced failure costs and maximum network availability. These investments pay off-delivering a more reliable rail network for operators and passengers.

Cable joints for Rail Infrastructure

Just as in the energy sector, Lovink provides solutions that address current challenges: ageing infrastructure, stray currents, extreme weather conditions and the growing impact of the energy transition.

Benefits

Lovink cable joints offer dedicated solutions for external forces in rail infrastructure

- **Continuous stress from sharp ballast, contaminated soil, temperature fluctuations and heavy train loads.**
- **Additional thermal stress from Eddy Currents causing localized overheating.**
- **Voltage swells triggered by train braking and acceleration.**
- **Extra harmonic stress from modern AC/DC converters.**

Wherever reliability is crucial, Lovink makes the difference.

Lovink joints are tested and certified in accordance with CENELEC HD 629 and IEEE 404, ensuring proven performance and reliability.

A selection of our solutions

LoviSil® M Series *Universal transition and straight joint for a wide range of cable types, reliable in complex network conditions.*

LoviSil® KB Series *Branch joint enabling cable-saving branching in medium-voltage networks.*

LoviSil® CB Series *Cross-bonding joint for controlled earthing and optimal network performance.*

LoviSil® oil refill solution *Reliable solution for extending the service life of oil-filled cables.*

LoviX® R Series *Joint with cold-shrink technology for fast installation and robust performance.*

See al our solutions at
lovink-enertech.com

Royal Lovink - Dedicated to a higher standard
For more than a century, Lovink Enertech has delivered cable jointing solutions for medium-voltage networks where failure is not an option. What started as a family business has evolved into a trusted international partner for grid operators, the renewable energy sector and industries that demand uncompromising reliability, safety and long-term performance.

Specialised solutions
When standard products are no longer sufficient, Lovink delivers specialised solutions that go further. Technically advanced, easy to install and built on trust. By combining deep expertise in electrical engineering, chemistry and mechanical engineering, we design and test cable joints that perform reliably even under extreme soil conditions, high mechanical loads and complex network environments.

Technology that goes further
Technology is at the core of everything we do. With LoviSil®, Lovink sets a new benchmark in liquid silicone insulation. Combined with the mechanical strength of Protolin® resin and an extra-robust outer shell, this technology creates a watertight, mechanically strong connection built for long-term performance. It delivers durable protection and significantly reducing the risk of failures.

Service you can rely on
Reliability extends beyond the product itself. With short lead times, flexible production and the ability to scale rapidly, Lovink supports projects of any size. Our global network and strong local presence ensure continuity wherever your project is located. Through the Lovink Academy, we strengthen skills and expertise with hands-on training and installation support, ensuring every installation performs exactly as intended.

ROYAL LOVINK

Lovink Enertech B.V.
Lovinkweg 3
7061 DT Terborg
The Netherlands
T +31 (0)315 33 56 00
E info.le@lovink.com

lovink-enertech.com

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