

Underfloor installations for rail vehicles

The underfloor area is one of the most technically demanding zones of a rail vehicle. Cables and wires are permanently exposed to high mechanical stress, weather conditions, and aggressive media. Vibrations, stone chips, moisture, dirt, and large temperature fluctuations continuously affect the installation. At the same time, the railway sector has high requirements for safety, fire protection, and long-term reliability. Cable protection systems must therefore not only be robust and sealed, but also designed as a holistic solution.



Challenges

- Vibration, stone chips, dynamic loads
- Water, dirt, oil
- Temperature changes

Solutions (Product features)

- Robust, halogen-free materials
- High tightness
- Railway-related certifications

Product recommendations

- FLEXAgraff-PU-F
- USZ-M
- FLEXAhightemp
- FLEXAgraff-CU-PU

Cable protection in the underfloor area in accordance with EN 45545-2 and IP66-IP69 reliably protects cables from vibrations, dirt, and moisture. Robust materials reduce maintenance and ensure long-term vehicle availability. At the same time, standard-compliant systems guarantee long-term, safe, and low-failure cable routing under demanding operating conditions.



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