

FRÄNKISCHE

INDUSTRIAL PIPES

A World Full of Solutions: FIPSYSTEMS® Certified and Reliable Cable Protection for Rail Technologies



FIPSYSTEMS® cable protection

FRÄNKISCHE Industrial Pipes has been manufacturing and developing high-quality protection products for the industrial and automotive sectors for decades. Especially in the railroad sector, where millions of people are transported every day, it is essential that sensitive lines and cables function and cannot be damaged.

Cable protection experts from FRÄNKISCHE have therefore made it their business to develop high-quality cable protection products that are available in various material qualities for a wide range of requirements and also for retrofit installations.

FIPSYSTEMS® Products for Applications Inside and Outside Trains

FIPSYSTEMS® cable protection solutions cater to various applications, both inside the vehicles and at

trackside locations, including cabling in vehicles, energy supply and data lines, ticket machines, information systems, video surveillance systems, trackbed applications, railway barriers, rail sensors, signalling, monitoring and control systems.

FIPSYSTEMS® cable protection products protect cables and wires in railway and infrastructure applications against:

- hot and cold weather
- heavy rain
- snow and ice
- mechanical influences such as stone impacts
- rodent bites
- chemical influences
- abrasions and impacts
- UV radiation

FIPLOCK® ONE Fitting: The Revolution in Cable Protection

FIPLOCK® ONE sets a new standard in cable protection

by offering a pre-mounted fitting made from specially formulated polyamide 6. This ensures reliable connections between FIPLOCK® corrugated conduits with fine and coarse profiles, covering diameter 07 to diameter 48. The pre-installed seal in the connector body guarantees secure connections, meeting the highest IP-protection categories, including protection classes 66, 67, 68 and 69. With FIPLOCK® ONE, the fitting solution covers all application requirements, simplifying the installation process and reducing storage efforts, ultimately leading to cost savings. This innovative solution provides high weather resistance, dynamic load capacity, impact resistance and pull-out strength and meets the most stringent fire characteristic standards. Moreover, FIPLOCK® ONE fittings meet the highest fire protection requirements according to EN45545-2 with HL3 for R22 / R23.

ONE FITS ALL – a versatile and efficient cable protection solution.

FIPLOCK®: Corrugated Conduits and Accessories

FIPLOCK® corrugated conduits offer highly reliable mechanical cable protection and flexible routing for wires and cables. These products are ideal for rail-technical applications, both in rolling stock and trackside installations. For additional applications, please refer to our main catalogue or visit our [website](#), where different material qualities are available to meet specific requirements.

FIPJACK®: Textile Protection Sleeves

FIPJACK® comprises a broad range of textile protection sleeves designed for simple bundling of strands and cables. These sleeves offer good abrasion protection, high resistance to sharp objects and, in some cases, meet the highest fire protection requirements. Especially for retrofit installations over already laid and connected lines FIPJACK® is a reliable choice for added safety.

FIPSPLIT®: Divisible Corrugated Conduits and Accessories

FIPSPLIT® provides an ideal solution for retrofitting cable protection. These divisible corrugated conduits effectively protect inserted cables and wires from external influences with their lockable ‘double conduit’ design. Available in diameters ranging from 4mm to

100mm, FIPSPLIT® offers flexibility and convenience in cable protection. Complementing this range, FIPSPLIT® accessories include mounting clips, conduit connectors, divisible fittings and divisible locknuts, all available in different sizes.

FIPHEAT®: High-Temperature Corrugated Conduits

FIPHEAT® is the product line of corrugated conduits meeting the highest temperature requirements. These high-tech materials offer performance features that cater to the most demanding temperature and chemical-resistance needs. Available in standard industrial nominal widths, FIPHEAT® conduits are indispensable for specific application requirements.

FIPSPECIALS®: Special Solutions

FIPSPECIALS® is the product group for extraordinary solutions, catering to segmented conduit systems, corrugated conduits with integrated thread connections, special shapes for customised installations, square, hexagonal and oval corrugated conduits, and even multi-layer corrugated conduits (co-extrusion), among others.

FIPSHIELD®: EMI/EMC Fittings and Accessories

FIPSHIELD® is the product line containing solutions for electromagnetic shielding of sensitive cables and data lines, ensuring compliance with industrial EMC guidelines (electromagnetic compatibility). FIPSHIELD® accessories offer optimal electrical transitions from the braided screen to the connection housing, resulting in high screening effectiveness with low transfer impedance. These fittings are equipped with the tried and tested FIPLOCK® ONE connection for the matching FIPLOCK® corrugated conduits.

With FIPSYSTEMS® cable protection solutions, FRÄNKISCHE Industrial Pipes revolutionises cable protection in the railway industry, providing enhanced safety, efficiency and reliability for rail and trackside applications.

Contact us for more information

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