

Lightning protection and earthing accessories

EKF's equipotential busbar is an integral component of your facility's equipotential bonding and lightning protection setup, compatible with 40 mm wide busbars for seamless integration.



Our PROFI EKF contact grease is an electrically conductive formula designed to enhance contact conductivity and longevity while preventing corrosion. Similarly, the PROFI EKF sealing tape provides robust waterproofing and corrosion protection for exposed or buried connections within down conductor and earthing systems.



**COMPONENT MATERIALS: COPPER,
STAINLESS STEEL**



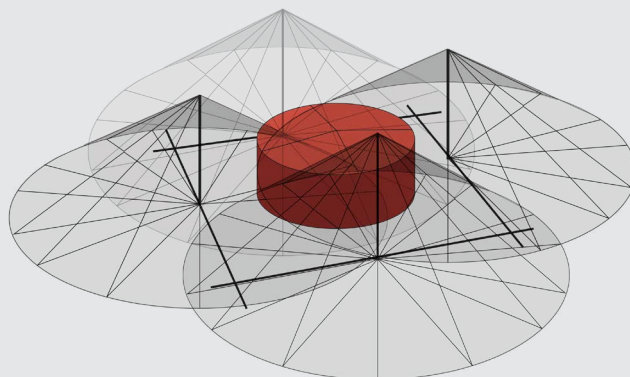
SERVICE LIFE OF 25 YEARS



**FULLY CUSTOMIZABLE AND EASY
TO INSTALL**

Lightning protection and earthing systems design services

EKF's dedicated design team stands ready to offer custom solutions, tailored to meet our clients' unique needs, free of charge.



Contact us:
sales@ekfgroup.com



ae.ekfgroup.com



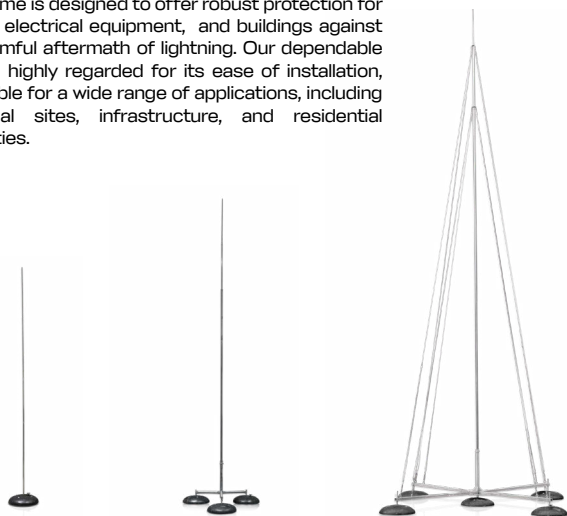
THE DOME

**Lightning Protection
and Earthing Systems**

EKF's flagship lightning protection and grounding system-the Dome-is expertly engineered to safeguard structures from the direct impact of lightning strikes and their subsequent effects

EKF

The Dome is designed to offer robust protection for people, electrical equipment, and buildings against the harmful aftermath of lightning. Our dependable system highly regarded for its ease of installation, is suitable for a wide range of applications, including industrial sites, infrastructure, and residential properties.



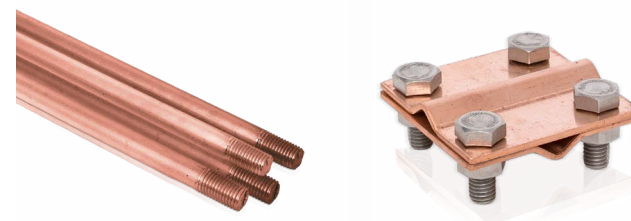
Insulated lightning protection

Our insulated lightning protection ensures a safe separation distance between air terminals, down conductors, and the protected asset. This design prevents hazardous sparking between the air-termination system and the structure, equipment, or electrical installations. With an adequate separation distance, the risk of sparking is virtually eliminated.



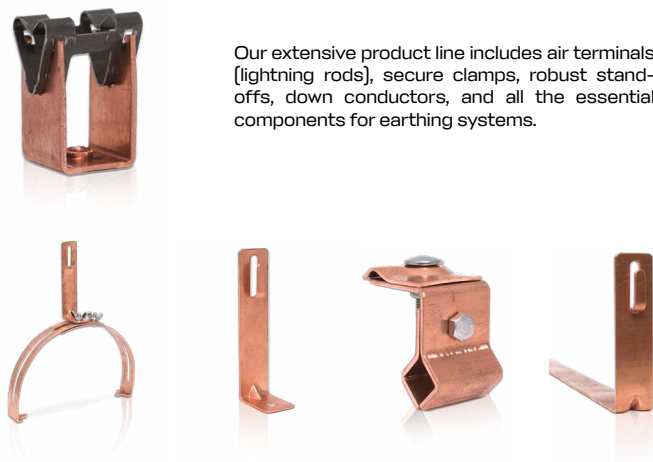
Earthing system

An earthing system is a set of conductors and electrodes that establish a low-resistance route for fault currents to reach the ground. This system serves as a vital reference for maintaining electrical circuits and equipment at a safe operational voltage. It is instrumental in preventing electric shock hazards by equalizing the potential of exposed metallic parts, and aids protective devices like circuit breakers or residual current devices (RCDs) in disconnecting the supply during faults.



Down conductors

The down conductor system provides an electrically conductive path from the air-termination system to the earth-termination system. Its role is to convey lightning currents and dangerous potentials from the primary grounding bus to the earth-termination system safely, without inducing dangerous temperature increases that could damage the structure.



Electrolytic grounding system

Low impedance grounding is essential to protect transmitting facilities and personnel from external or internal electrical anomalies. Traditional copper clad ground rods may fall short in areas with high ground resistivity or limited installation space. EKF's electrolytic grounding system—featuring electrode filler, hollow earthing rods, and an electrolyte backfill—delivers a consistent, low-resistance connection with earth, optimizing the installation footprint and reducing setup time.

