

Risky Business

What You Need To Know About...

Electrical Fires

Electrical fires are one of the leading ignition sources and causes for property damage regardless of occupancy. Defects in electrical systems or equipment may lead to overheating or arcing, both of which may cause a fire. Investing in professional inspections, using equipment correctly, and staying informed about electrical safety are key strategies for protecting property.

Stats and Trends:



\$1.5 billion¹
in damages in 2023 from
31,640+
residential electrical fires²



\$354 million³
in damages in 2023 from
7,400
commercial electrical fires



46.8%
of electrical fires
are caused by
**issues with
electrical wiring⁴**

From 2014-2023 there has been a



2% increase in electrical fires

and a



28% increase in dollar losses¹

Hazards & Risks



Faulty wiring and outdated electrical systems



DIY electrical work and code violations



Overloading circuits and power strips



Lighting equipment and fixtures



Appliance malfunction and misuse



Power surges and lightning strikes

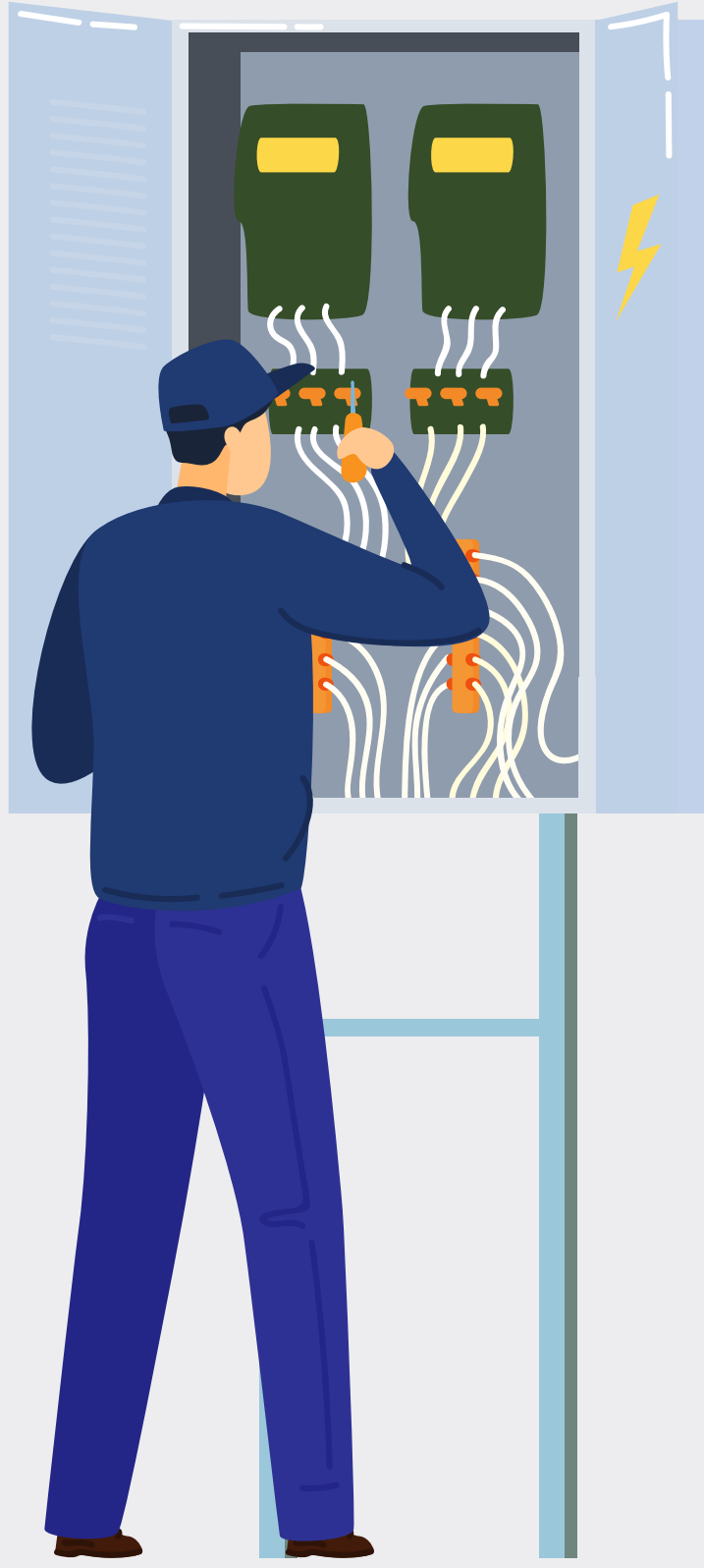


Improper use of extension cords



Neglected maintenance and inspections

Loss Control



Regular inspection of electrical systems and equipment.

Cool

Equipment and operating environments should be cool.

Clean

Dirty electrical equipment and connections can increase heat, as well as provide fuel sources for fires. Remove all storage near electrical panels.

Dry

Humid environments or exposure to water can lead to corrosion of metal parts in electrical systems leading to increased heat and breakdown.

Tight

All electrical connections should be tight.



Use equipment properly.



Update older systems and equipment in poor condition.

References

- 1 U.S. Fire Administration. "Residential Building Electrical Malfunction Fire Trends (2014–2023)." U.S. Fire Administration. Published February 14, 2025. Accessed November 7, 2025.
- 2 National Fire Protection Association. "Electrical Safety in the Home." NFPA. Accessed November 7, 2025.
- 3 U.S. Fire Administration. "Nonresidential Building Electrical Malfunction Fire Trends (2014–2023)." U.S. Fire Administration. Published February 14, 2025. Accessed November 7, 2025.
- 4 U.S. Fire Administration. "Residential Building Electrical Fires." U.S. Fire Administration. Published March 2008 (Volume 8, Issue 2). Accessed November 7, 2025.