- Reduced Downtime
- Better Surge Protection
- Meets Resistivity Targets

Telecom & Broadcast

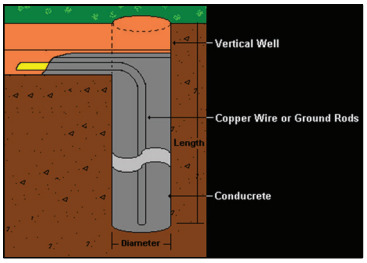
Protecting sensitive assets

The Risk

- Lost time and revenue caused by equipment and infrastructure damage because of lightning strikes and main AC power ground fault currents.
- Noise and electrical interference caused by improper grounding practices and shared systems whose individual grounding systems may conflict with each other thus producing a degraded signal quality or costly service interruptions.
- Safety of onsite personnel and corporate liability exposure.

The Solution

SAE's grounding product solutions include a variety of conductive backfills: Conducrete®, ConduFlow® and ConduForm™ to enhance electrode horizontal and vertical installations. All backfill products set-up to form a solid surround to protect wire from corrosion, theft and physical damage.

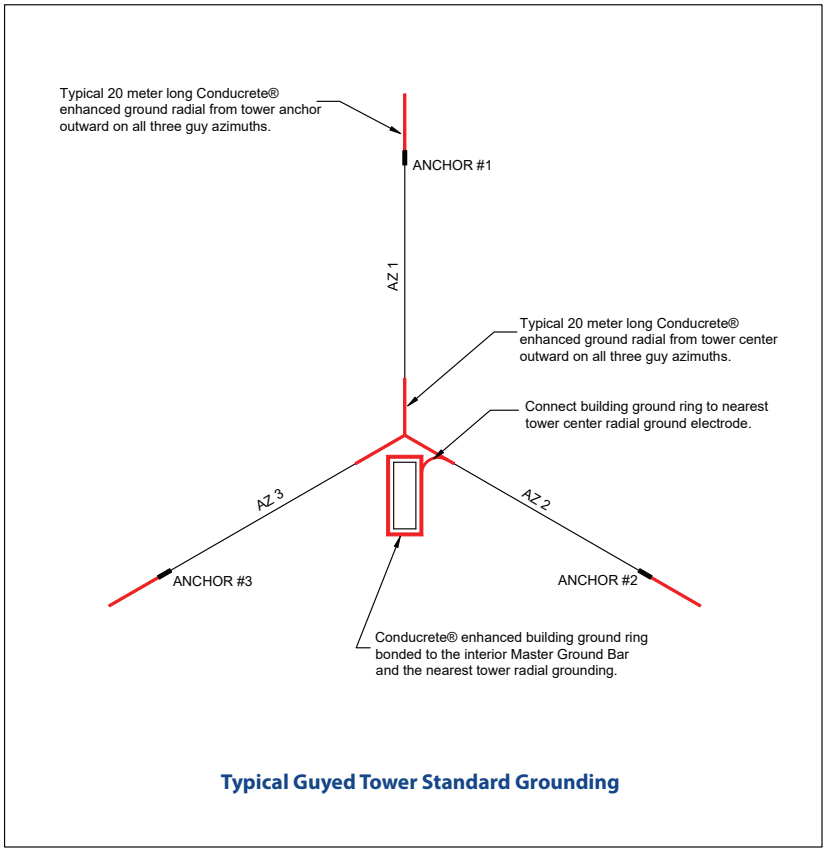


What makes SAE's approach to grounding better than traditional grounding systems?

An SAE grounding system is designed with both resistance and impedance in mind. It will successfully mitigate the risk of equipment damage by quickly and efficiently dissipating surge energy. SAE designs telecommunication tower grounding systems to meet or exceed industry standards and ***lower surge impedance, decrease ground resistance, protect equipment, eliminate corrosion and prohibit theft.***

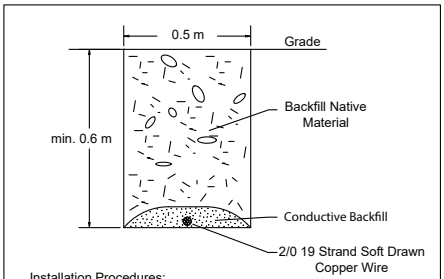
Testing & Design

Soil resistivity testing is completed to accurately model the soil where the grounding system will be installed. With site specific information, SAE is able to design a grounding system that will ensure the desired results are obtained.



Typical Guyed Tower Standard Grounding

Soil Resistivity Testing Equipment



Installation Procedures:
1. Dig trench 0.5 m wide, 0.6 m deep to required length.
2. Smooth out bottom of the trench.
3. Lay 2/0 bare copper wire in center of the trench.
4. Cover trench to 40 mm depth with Conducrete® material.
5. Hand shovel 150 mm of loose backfill over the Conducrete® and compact by hand.
6. Backfill trench with excavated material.

Detail of Typical Installation of Grounding

Updated: 6/26/2019