



## Installation Instructions & Applications for Electric Fence Wire

Electric Field Fences work by converting an electrical source into a high voltage pulse. This pulse is release on to an insulated fence about once per second. The pulse can vary in duration, but typically lasts about 150 microseconds. When an animal makes contact with this fence, it completes the electronic circuit and receives a shock. Electric Fence Wire is available in 14 and 17 gage, and lengths of ¼ and ½ mile.



**Tools Recommended:** Gloves, Heavy Wire Cutters, Protective Goggles

Electric Fences can be built for temporary or permanent use. A single strand of electrified fence wire can also be added to other types of fence, such as Field Fence or Horse Fence, which improves their effectiveness tremendously. Electrical fences require an electric fence controller to energize the wires.

Temporary electric fencing is often constructed with 2 or three strands of electric fence wire, and with posts that are easily movable, such as Plastic or Galvanized Steel Step-In Posts. Whenever steel posts are utilized in electric fencing, be sure to obtain the proper style insulators to keep the electric fence form touching the metal post. Temporary electric fencing is ideal for managing where farm animals are allowed to graze.



Permanent electric fencing is often constructed with up to 8 electric fence wires placed on stronger posts. These posts are typically 6-8" round wood post at the corners, and 4" posts along the fence. These fences often use alternate wires as the hot wire and the grounded return to the charger. This enables a completed circuit when an animal touches any two adjacent wires and improves performance of the fence in drought conditions.



The last common application covered in this document is the addition of a single electrical fence wire to the top of an installed Field Fence or Horse Fence. The presence of this single electric fence wire discourages animals from resting their heads on top of the existing fence, thus preventing the Horse or Field Fence from developing sags along the fence where a rather large animal has been leaning on it. Using an electric fence wire in this top position provides the same benefit as adding a single Barbed Wire, but without the risk of injury to the animal being contained.

