

Reel Handling Guidelines

In addition to these instructions for proper storage and safe handling, follow all instructions listed on the packaging wrappers and boxes.

Wire Storage

Essex Solutions magnet wire is durable and will last for many years if it is handled and stored properly. Any product that has been stored for more than two years should be inspected prior to use. Never throw, roll, or drop reels and spools.

STORE

- > Reels and spools on a pallet on a level surface.
- > Where reels and spools have at least 4 inches of clearance off the ground and enough clearance for jacks and cranes.
- > Inside well-ventilated areas.
- > Away from contaminants—such as chlorine gas, organic solvents, acids, or alkali chemicals, as well as dust and all types of metal powder.

DO NOT STORE

- > On the ground.
- > In direct sunlight.
- > In areas with high temperature or high humidity.



Wire Winding

There are inherent dangers involved with any project; it's imperative to understand ways to keep both you and your workplace safe. Essex Solutions recommends following all safety guidelines and regulations. Additionally, always use a forklift or crane to move spools and wire throughout your facility.

There are ways you can limit damage to the wire and reduce risk of personal injury.

- > **Check the Appearance** | All Essex products have been inspected before delivery. Prior to use, verify that damage did not occur during transportation, or during prolonged storage.
- > **Minimize Stretching** | The magnet wire enamel can be stretched too thin resulting in the deterioration of its electrical and mechanical characteristics. Refer to the Essex engineering guide—or slide chart—for recommended maximum payoff tension.
- > **Know Your Wire** | Reels containing magnet wire should never be tipped on the side; tipping may result in crossed wraps and/or tangles.
- > **Make Good Contact** | Essex recommends that first contact points—for vertical payoffs—be a minimum of 3x-5x diameter of the spool being used. All contact points should be smooth and free of burrs or surface roughness; rotating surfaces are preferred.
- > **Brake For Better Results** | The rotating wire head may release at a high rate of speed as the spool empties; spools that rotate on payoff can also have considerable inertia. A brake is recommended to reduce auto rotation, wire tangles, as well as limit personal injury.

