

Fixed knot and hinge knot page wire (woven wire) fencing are two popular agricultural fencing types with distinct advantages based on strength, durability, and cost. **Fixed knot** is the most durable, high-impact option designed for long-term security, while **hinge knot** is a versatile, cost-effective choice that excels on uneven terrain.

Benefits of Fixed Knot Page Wire Fencing

Fixed knot, also known as secure knot or lock knot, uses a separate, solid piece of wire to tie the vertical stay wire to the horizontal wire at every intersection.

- **Superior Strength & Impact Resistance:** The locked knot design makes it nearly impossible for animals to break, climb, or push through the fence, making it ideal for cattle, bison, and deer.
- **Long-Term Durability & High Tensile Strength:** Constructed with high-tensile steel, it is stronger and has a much longer lifespan (roughly 20-40 years) than traditional low-carbon options.
- **Reduced Installation Costs:** The superior strength allows for wider post spacing (up to 25–40 feet), requiring fewer posts and reducing labor.
- **Does Not Sag:** Its high tensile strength prevents it from sagging over time or under heavy animal pressure, maintaining its shape without regular re-tensioning.
- **Excellent for Wildlife Exclusion:** The rigid structure, often featuring small mesh openings at the bottom, is ideal for protecting crops from deer and predators.

Benefits of Hinge Knot Page Wire Fencing

Hinge knot, or hinge joint fencing, is traditional field fencing where the vertical wire is wrapped around the horizontal wire, creating a flexible pivot point.

- **Superior Flexibility for Uneven Terrain:** The hinge knot acts as a flexible hinge, allowing the fence to flex and adapt easily to rolling terrain, gullies, and dips, unlike the rigid structure of fixed knot.
- **High Impact Adaptability:** While not as rigid as fixed knot, the hinge knot allows the fence to bend under pressure and then return to its original shape.
- **Budget-Friendly:** Hinge joint is generally less expensive to purchase per roll, making it a better choice for long fencing runs in low-to-moderate pressure areas.
- **Easy Installation:** The fence is lightweight, flexible, and often easier to handle and install, especially for DIY projects.
- **Good for General Livestock:** It is highly effective for fencing in cattle, sheep, and pigs, providing a reliable barrier that balances cost with performance.

Comparison: When to Use Which?

Feature	Fixed Knot	Hinge Knot
Strength	Very High (Best)	Moderate-High
Durability	20–40+ years	Lower than Fixed
Cost	Higher upfront	Lower upfront
Terrain	Flat to moderately rolling	Excellent for steep/hilly
Best Animal	Bison, Deer, Cattle, Horses	Sheep, Cattle, General
Post Spacing	Wide (25-40 ft)	Narrower (12-16 ft)

Fixed knot is the best choice for high-pressure, permanent, or high-value livestock applications, while **hinge knot** is superior for covering large, challenging terrains on a budget.