

# Lightfield Less Lethal Research Inc.

## Product Specification Guide

### Lock Shackle Cutter

Caliber: 12 gauge  
Case length: 2.75 in / 70mm  
Ammunition class: Breaching Load  
Projectile type: Solid Steel Sabot Slug  
Projectile color: Silver  
Projectile weight: 500 grains  
Projectile diameter: .730 inches  
Muzzle velocity: 1700 fps  
Kinetic energy @ muzzle: 3,200 ft/lbs  
Min. engagement distance: Contact\*



### Intended Use:

The Shackle Cutting load is intended to defeat heavy padlock shackles. Its metallurgy and design are intended to grip and cut through heavy shackles when using a notched breaching stand-off. This load poses a higher over-penetration and ricochet hazard than typical frangible breaching munitions, but can defeat locks, chain link and other barriers not generally addressable with a shotgun breaching system. The use of this load requires additional planning and training considerations.

### Training requirements:

- All users must be trained and competent in basic firearms safety.
- Users must be aware that Breaching munitions are not 'Less Lethal' and always pose the risk of collateral injury or death.
- All users should be qualified Breachers, fully familiar with the limits and capabilities of any breaching munition they might deploy. Users must determine that the breaching load and the barrier to be defeated are compatible.
- All users must be fully familiar with any current Federal and State case law, as well as any local or organizational guidelines or restrictions regarding both the Use of Force and use of breaching ammunition.
- All users must be able to differentiate between Breaching loads and conventional ammunition as well as articulate the properties and safe engagement requirements of any Breaching munition they might required to deploy.
- Users should always have alternative breaching methods and tools available.
- Breaching munitions should be carried and stored separately from other loads.
- All users need to have an post-shooting plan covering possible medical treatment, restraint and removal of injured persons.