

# WHITE PAPER: Square Lock (SL) and Full Interlock (UI) Metal Hose

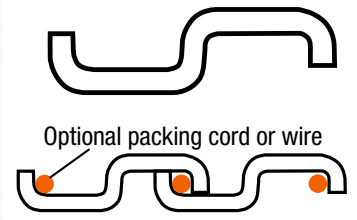
ANAMET Industrial Solutions roll forms strip metal to make flexible metal hose in a variety of materials. Square lock (SL) and Full interlock (UI) conduit have similar features, but different benefits.



## Square lock (SL)

- The square profile of the metal hose gives space for optional packing, such as nylon cord or a wire
- Thick metal strip is used because roll forming bends less metal
- The square lock profile eases production of smaller diameter hose

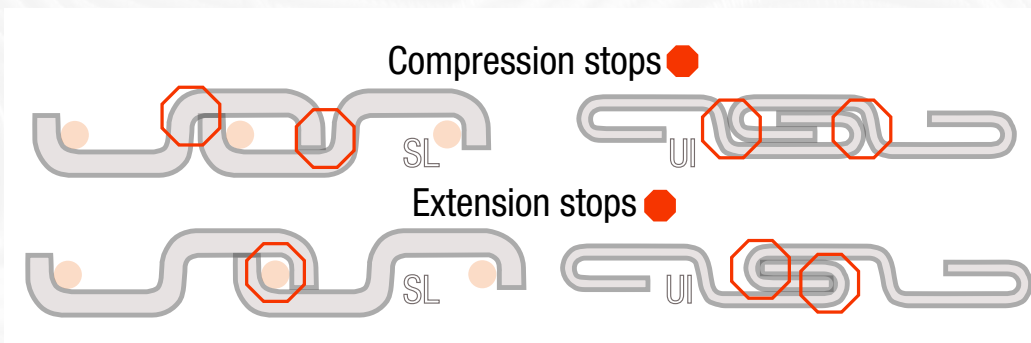
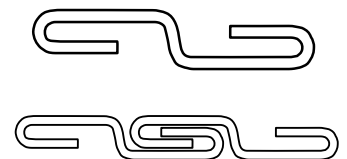
Square Lock (SL) Profile



## Full interlock (UI)

- The complex full interlock profile requires thin metal strip
- Each turn of the UI metal hose interlocks in a tight joint that resists twisting, breaking and crushing
- Saw cutting is the best method for cutting UI metal hose

Full Interlock (UI) Profile



Conduit is formed in a spiral, like a metal spring, for versatile flexibility.

## Comparison

- Profile features block destructive compression and extension
- Stripwound metal hose is more flexible, with a tighter bend radius, in smaller diameters
- Stripwound metal hose is formed in a spiral like a metal spring
- Metal is folded less in each turn of the SL hose, so it may weigh less than UI hose of the same diameter. Optional packing in smaller diameter SL hose can make it weigh nearly the same as UI hose of the same diameter.



**ANAMET Industrial Solutions**  
**ANAMET Electrical, Inc.**

Customer Service: (800) 230-3718  
Email: [info@anametindustrialsolutions.com](mailto:info@anametindustrialsolutions.com)

**ANAMET Electrical, Inc.**  
1000 Broadway Ave. East  
Mattoon, IL 61938