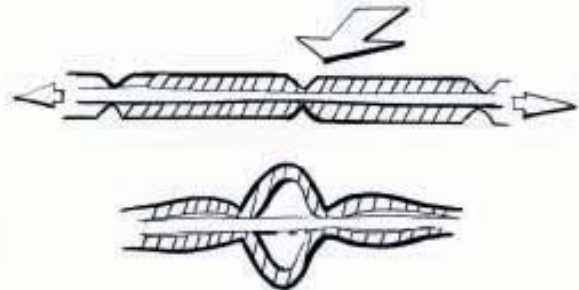
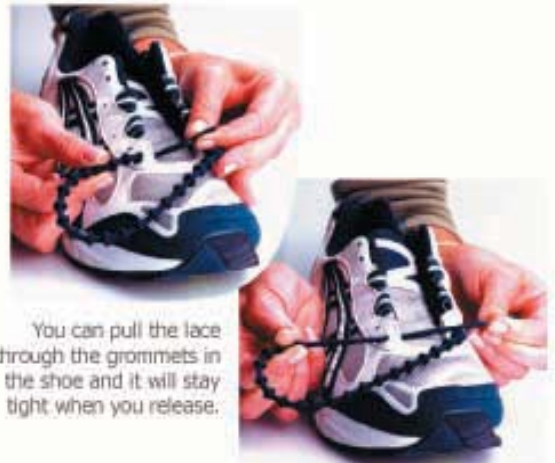


Self-Knotting Rope

Can I use a rope without requiring an external clamp?



The elastic is stretched during manufacturing and the braid is tacked to the elastic. When the elastic contracts, it bunches the elastic between the tack points creating a "knot."



You can pull the lace through the grommets in the shoe and it will stay tight when you release.

DETAILS

This shoelace ties its own knot. Pull the ends of the lace and notice that the "knots" or bumps disappear. When released they reappear. You can pull the lace through the grommets in the shoe and it will stay tight when you release.

Inside the braid is a piece of elastic. During manufacture the elastic is stretched and the braid is tacked to the elastic, so when the elastic contracts, it bunches the elastic between the tack points. The manufacture stocks standard shoelace sizes and is currently developing larger sizes for marine applications. The samples pictured above retail for \$6 - \$10.

Triathletes who need to get their shoes on fast can slip into their running shoes but still have them tight to prevent foot pain. Kids who have trouble tying shoes can use these closures to get their shoes on without their parents' help.

Where else do we need self locking ropes? Other apparel applications (belts, gaps in shirts or pant legs), backpacks for outside cargo tie downs, cable ties, even ropes on a sailboat.

DesignAid samples are from Qwest Technologies, Inc. They can be reached at 866.566.8926.

Check the database (<http://designaid.inventables.com>) for more details.



Can be used to eliminate tying of ropes in marine applications.