

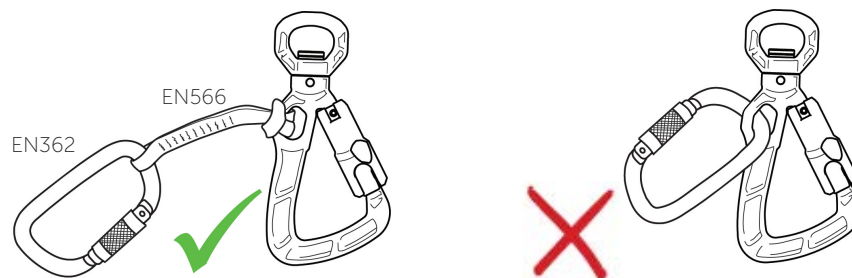
HEAD RUSH TECHNOLOGIES

TRU-Lock Carabiner Dual Connection

The Head Rush Technologies TRU-Lock Triple Stage Locking Carabiner has an innovative integrated attachment point for a secondary connection to the climber. This integrated backup option can be used for recreational or competition climbing to minimize the possibility of incorrect user attachment.

Components Used

The secondary connection hardware can be sourced by the installer or end user and consists of any compatible EN362 triple locking connector and EN566 sling that can be properly girth hitched to the TRU-Lock Carabiner. Materials such as aramids and UHMWPE (Dyneema, Spectra) should not be used as they are generally not compatible with girth hitch connections due to significant strength reduction. Materials such as nylon and polyester are generally more acceptable with this type of use. Metallic connectors are not allowed due to the high probability of cross loading or multiplying forces through restricted motion and the resulting leverage created on the TRU-Lock secondary connection point.



Climber Connection

A user can be connected to both primary and secondary connectors at the same rated harness attachment point or to multiple harness attachment points assuming operational compatibility of such an attachment method. The gates of connectors should face opposite directions when possible.

Other Considerations

Several additional considerations that may be operation specific include:

- *Lanyard Length:* The secondary connector should not be loaded during normal operation, and should be as short as possible
- *Inspection:* Girth hitches should be loosened and inspected regularly to check for wear
- *Secondary Connector Loading:* Since the secondary connector is not loaded during use it may tend to rotate into a potential cross or gate loading orientation. Consider a lanyard keeper or captured eye carabiner to maintain proper orientation and ensure that the connector stays connected to the TRU-Lock Carabiner and is not left on harnesses after use.



Secondary Connector Product System Recommendations

When considering how to build the secondary connector, remember to adhere to the following standards:

1. The lanyard should be Nylon or Polyester.
2. The lanyard should be allowed to be girth hitched.
3. The lanyard should be certified to EN566.
4. The carabiner should be triple locking and certified to EN362.
5. It's strongly recommended that the carabiner is affixed to the sling with lanyard keepers.

While most polyamid or polyester quickdraw slings 13mm and larger are acceptable, below is an example of a product system that meets the necessary requirements for the secondary connection hardware:

Petzl Cutaway Sling for Canyon Club Harness

To purchase the Petzl Cutaway Sling visit www.petzl.com.



Petzl Triple Locking Carabiner with Lanyard Keeper

Both of these products can be purchased at www.headrushtech.com/climbing/accessories.

