



SHOCKLES 101

There are at four important characteristics to understanding a SHOCKLE. They are:

- Length**
- Stiffness**
- Overall Strength**
- Construction**

LENGTH

Let's start with the easy one:

Big-SHOCKLES come in three (3) lengths: 12", 18", and 24".

Mini-SHOCKLES come in five (5) lengths: 6", 12", 18", 24" and 30"

This measurement is the static length of the webbing section of the SHOCKLE when unstretched.

SHOCKLES stretch to around 80% of their static length.

A 12" SHOCKLE will stretch to 21" before coming to the end.

A 18" SHOCKLE will stretch to 32" before coming to the end.

A 24" SHOCKLE will stretch to 43" before coming to the end.

STIFFNESS

Big SHOCKLES come in two Stiffness: Force/2, and Force/3. What does this mean? The 'stiffness' means the amount of force required to stretch the SHOCKLE. This is controlled by the number of loops of shock-cord inside the SHOCKLE (more details once we get to construction).

FORCE/2 has two loops of 5/16" shock-cord.

FORCE/3 has three loops of 5/16" shock-cord.

It takes 50 lbs. of force to stretch one of the internal shock-cord loops to the point at which the inner strength member takes over.

FORCE/2 requires 100 lbs. of force to stretch to full length.

FORCE/3 requires 150 lbs. of force to stretch to full length.

All MiniShockles requires 25 lbs. to stretch it to full length.



Overall STRENGTH

While FORCE/2 and FORCE/3 SHOCKLES have different stiffness, they all have the same overall strength. Our exclusive patented internal strength member of 1" nylon webbing largely determines the overall strength.

We have done considerable testing on all parts of the SHOCKLE construction (webbing, stitching, carabiners, shock cord, hog rings, cover) to insure that there is no inherently weak part. We enlisted the assistance of the University of Portland School of Engineering to test our assembly methods and materials. We also did additional load-cell tests on all parts and stitching variations and filmed the tests and results to analyze them.

As a result of this testing, we have provided a recommended maximum load rating as follows:

2,500 lbs. for the Big SHOCKLE

300 lbs. for the Mini SHOCKLE.

This rating is the recommended maximum load and is considerably less than the breaking strength found during laboratory testing.

Construction

Key Details of the SHOCKLES construction are depicted below.

1. The internal strength member is made from 1" tubular webbing. This 1" webbing is continuous throughout the product.

S/H/O/C/K/L/E/S®

SIMPLY BRILLIANT



2. This strength member is finished on the ends with five bar-tacks. This system of five bartacks brings the strength of this member up to that of the webbing itself.



3. Loops of shock-cord are fed through the strength member. The number of loops determines the Stiffness. The shock-cord is

S/H/O/C/K/L/E/S®

SIMPLY BRILLIANT

fastened to itself by a system of three (3) stainless steel hog-rings.



4. The protective cover is pulled over the internal member and sewn with an additional bartack.



S/H/O/C/K/L/E/S®

SIMPLY BRILLIANT

5. The product is finished with carabiners on each end that have a load rating of 5,000 lbs. each.

