

# High Modulus Double Braid Inspection



# HIGH MODULUS DOUBLE BRAID

## FLAT SPOT INSIDE ROPE

A flat spot can indicate damage to the core of the rope.

## THE CAUSE

Flat spots are often caused by overloading or shock loads, resulting in broken internal strands.

## THE REPAIR

Open the rope sleeve to remove and inspect the core. If the core is parted, you will need to retire the rope.



# HIGH MODULUS DOUBLE BRAID

## **BUMPS ON COVER**

If you work with a winch, you'll often observe compression of your ropes. Characteristics include a visible sheen and stiffness that is reduced when you flex the rope.

## **THE CAUSE**

Bumps can be caused by compression forces and usually have no impact on the rope's performance. A rope's fiber will sometimes mold itself to the contact surface under a radial load.

## **THE REPAIR**

This rope can be returned to service. Simply flex the rope to remove the compression.



# HIGH MODULUS DOUBLE BRAID

## CUT STRAND

When visually inspecting your rope, always look closely for any cut strands. When working with a high modulus double braid, you only need to worry about cuts that might compromise the core.

## THE CAUSE

Cut strands could be caused by abrasion, sharp edges and surfaces, or cyclic tension wear.

## THE REPAIR

As long as the core remains covered, you can repair cut strands by whipping into place, without impact on the strength.

## FUTURE PREVENTION

Always use slings when lifting, and avoid abrasive situations whenever possible, including rough surfaces and sharp edges. Keep your chocks, bits, winches, drums and other surfaces in good condition and free of burrs and rust. Make sure sheaves are the right size and are free to rotate. Don't drag the rope over rough ground. Be sure to use clamps and similar devices with extreme caution.



# Contact



When in doubt, ask for help. We would be happy to help you understand the rope's life cycle in your application.

## **Contact:**

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Disclaimer: This document is intended to be used for general rope inspection guidance and cannot cover all possible conditions, applications, products or use. For additional details, please reference the Cordage Institute Guideline 1401-15. When in doubt, do not use the rope.



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