



**NEW ENGLAND ROPES**

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Registered ISO 9001  
Cordage Institute Member

# 3-STRAND SAFETY BLUE™

ARBORIST  
CLIMBING ROPE

## PRODUCT DESCRIPTION

3-Strand Safety Blue™ is constructed of high tenacity polyester wrapped around our trademark blue nylon core. The firmly twisted polyester strands resist back turning, improve abrasion resistance, and reduce bouncing that is associated with other 3-strand climbing ropes.

This tough, durable construction is treated with a protective finish that significantly improves the durability of the rope, maximizing service life. 3-Strand Safety Blue™ is only available in 1/2" diameter.

## FEATURES

- Protective Coating
- Trademark 'Blue' Core
- Abrasion & Snag Resistant
- Easily Spliced
- Reduced Bounce

## APPLICATIONS

- Arborist Climbing Rope



## COMPLEMENTARY PRODUCTS

- Hi-Vee™
- Fly™
- Multiline II™
- Safety Pro 12™
- Treeline™



3-Strand Safety Blue

# SAFETY BLUE™

## SUNLIGHT/UV:

Very little degradation from UV, and can be used over long term if inspected regularly.

## CHEMICALS:

Polyester has good resistance to most chemicals, except 95% sulfuric acid and strong alkalis at boil. Nylon will degrade with strong oxidizing agents, mineral acids, and 90% formic acid. Nylon may also discolor when exposed to high levels of carbon dioxide.

## HEAT:

Polyester has a melting point of 480°F with progressive strength loss above temperatures of 300°F. Nylon melts at 460°F with progressive strength loss above 300°F.

## DIELECTRICS:

Good resistance to the passage of electrical current. However, dirt, surface contaminants, water entrapment, and the like can significantly affect dielectric properties. Extreme caution should be exercised any time a rope is in the proximity of live circuits.

## SHEAVES:

Recommended D/d\* ratio is 8:1. (\*Sheave diameter to rope diameter)

## WORKING LOADS:

No blanket safe working load (SWL) recommendations can be made for any line because SWL's must be calculated based on application, conditions of use, and potential danger to personnel among other considerations. It is recommended that the end user establish working loads and safety factors based on best practices established by the end user's industry; by professional judgment and personal experience; and after thorough assessment of all risks. The SWL is a guideline for the use of a rope in good condition for non-critical applications and should be reduced where life, limb, or valuable property is involved, or in cases of exceptional service such as shock loading, sustained loading, severe vibration, etc. The Cordage Institute specifies that the SWL of a rope shall be determined by dividing the Minimum Tensile Strength of the rope by a safety factor. The safety factor ranges from 5 to 12 for non-critical uses and is typically set at 15 for life lines.

## SPLICING INSTRUCTIONS:

3-Strand Eye Splice

## PART NUMBER SERIES:

7250 Series

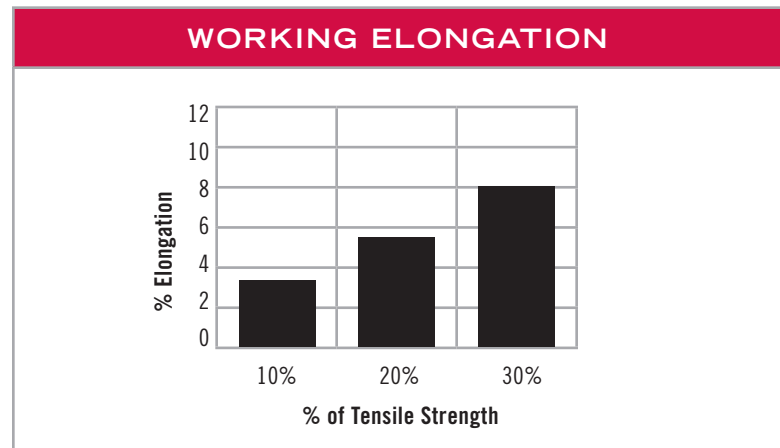
When placing an order for this product, please build your part number according to this formula: XXXX-YY-ZZZZ where:

XXXX = Part Number Series (found above)

YY = Diameter in 1/32 of an Inch (e.g., "-16-" = 1/2")

ZZZZ = Length in Feet (e.g., "-00600" = 600')

STRENGTH/WEIGHT			
Diameter (inch)	Diameter (mm)	Weight (lbs./100 ft.)	Tensile (lbs.)
1/2"	12	7.6	6,500



Compliance to the above specifications is based upon testing according to the *Cordage Institute Standard Testing Methods for Fiber Rope* and/or *ASTM D-4268 Standard Methods of Testing Fiber Ropes*. Weights are approximate and may vary +/- 5%. Tensile strengths reported are approximate averages for new, unused ropes. To estimate the minimum tensile strength of a new rope, reduce the approximate average by 10%. (The Cordage Institute defines minimum tensile strength as two standard deviations below the average tensile strength of the rope.) Stretch data tested to CI 1500-02.



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