NEW ENGLAND ROPES

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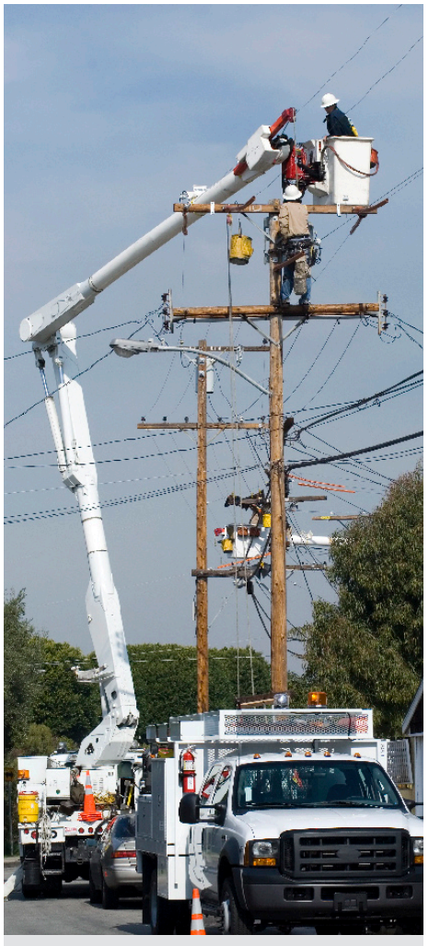
Registered ISO 9001
Cordage Institute Member

V-12™

INDUSTRIAL/ UTILITY ROPE

PRODUCT DESCRIPTION

V-12™ is a 12-strand, 100% Vectran single braid rope. V-12™ is characterized by high strength, excellent abrasion resistance, and no creep. V-12™ also has a very good resistance to high temperatures. V-12™ is treated with a proprietary vinyl-based coating to improve abrasion resistance. This coating can be tinted to aid in line identification.

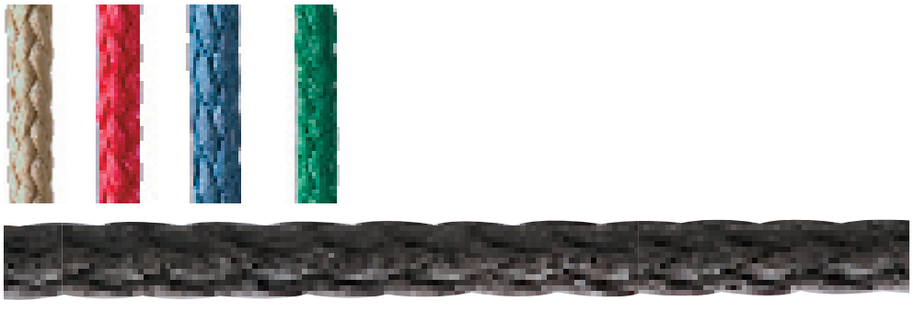


FEATURES

- Good Fatigue Resistance
- No Creep
- High Temperature Resistance
- Vinyl-Coated to Improve Abrasion Resistance
- Easily Spliced

APPLICATIONS

- High Strength/Low Stretch Applications



V-12 - Black

COMPLEMENTARY PRODUCTS

- NEREX™
- PCR-U™
- Sta-Set®
- Da-Pro™
- Multiline II™

V-12

SUNLIGHT/UV:

Vectran® Fiber has very little degradation from UV, and can be used over long term if inspected regularly.

CHEMICALS:

Vectran® Fiber has good resistance to most minerals, organics, acids, and weak alkalis. Vectran® Fiber also has excellent resistance to bleaches and other oxidizing agents as well as to most solvents.

HEAT:

Vectran® fiber has a melting point of 660ºF with progressive strength loss above temperatures of 430ºF.

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:

12-Strand Eye Splice - Brummel

PART NUMBER SERIES:

1460 - Gold 1461 - Red 1462 - Green
1463 - Blue 1464 - Grey

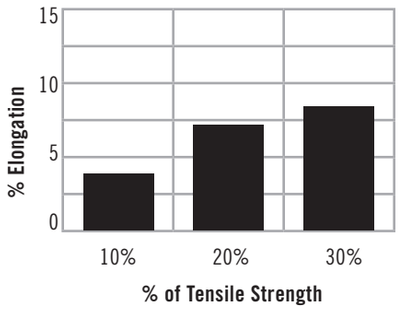
When placing an order for this product, please build your part number according to this formula: XXXX-YY-ZZZZZ where:

XXXX = Part Number Series (found above)
YY = Diameter in mm (e.g., "-08-" = 8mm)
ZZZZZ = Length in Feet (e.g., "-00600" = 600')

STRENGTH/WEIGHT

Diameter (inch)	Diameter (mm)	Weight (lbs./100 ft.)	Tensile (lbs.)
1/8"	3	0.5	1,900
5/32"	4	1.0	3,500
3/16"	5	1.2	4,750
1/4"	6	1.8	7,500
5/16"	8	3.2	11,500
3/8"	10	4.8	16,800
7/16"	11	5.5	21,000
1/2"	12	6.6	23,000

WORKING ELONGATION



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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