Making Their Mark
In Durability,
Not On Your Hands

"Stage-Set X" and "Multiline II" ropes meet J.R. Clancy's strict specifications for stage usage. Both provide substantially longer service life than even the best grades of manila ropes. Both eliminate the dangers and nuisance of manila slivers in hands and eyes. Operators can work longer and in greater comfort. Neither rope will rot the way manila does, nor change length with temperature or humidity.

Stage-Set X has the additional advantages of very high strength for size, easy comfort grip, and parallel construction so it does not kink or unwind when used as a spot line or arbor hand line. Finally, its very low elongation characteristic eliminates the need for frequent retying of counterweight set hand lines.

Multiline II is an economical alternative for those who do not require the performance properties of Stage-Set X, or who prefer the traditional twisted rope construction. Multiline II offers significantly higher strength and lower weight than manila while exhibiting similar elongation properties.

"Once you've tried these, I don't know why anyone would ever use manila rope again."
Steve Brookhouse, Assistant Technical Director
Cornell University

"It's great...and no splinters. Very cost effective. I haven't had to adjust my tension blocks in over a year. The low maintenance is a definite plus."
Fred Lichter, Head Flyman
Mirage Hotel, Las Vegas

Stage-Set X

Manufactured from premium quality high strength synthetic fibers, this is the strongest, most environmentally stable stage rope available.

Stage-Set X is a proprietary design with a parallel core of polyester fiber wrapped in polyester tape and covered by a braided polyester jacket. The parallel core remains firm and round under all load conditions and resists crushing in rope locks. The braided jacket offers excellent gripage through a textured surface while providing superior abrasion resistance.

Stage-Set X is typically furnished in white with an "X" pattern in the braided jacket. To reduce visibility, a black urethane coating is also available. Upon request, specific line sets may be color coded for further convenience.

Multiline II

Multiline's unique, 3-strand composite construction combines filament and staple/spun polyester wrapped around fibrillated polyolefin (except in ropes smaller than 1/2" dia., which have no polyolefin core).

This design produces a rope with considerably lower stretch and better wear life than composite ropes which use monofilament polypropylene and filament polyester.

Multiline is the only synthetic rope that feels and handles like manila, yet weighs less and provides superior durability, strength and safety. The "spun" surface provides easy and sure handling, even with gloves.

For All Your Rigging Needs, Call Toll Free 1-800-836-1885
NEW ENGLAND ROPES TECHNICAL DATA

Sunlight/UV:
Very little degradation from UV. Can be used outside over long term if inspected regularly.

Chemicals:
Good resistance to most mineral/organics, acids and weak alkalis. Excellent resistance to bleaches and other oxidizing agents and to most solvents.

Heat:
There is likely to be progressive strength loss above 300F with Stage-Set X and above 200F with Multiline II.

Dielectrics:
Polyester fiber has good resistance to passage of electrical current. However, dirt, contaminants, moisture entrapment and the like can significantly affect dielectric properties. Extreme caution should be exercised any time a rope is used in proximity to live circuits.

Working Loads:
No blanket working load recommendation can be made because it depends on the application and conditions of use, especially regarding potential danger to personnel. The working load 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 are involved, or for exceptionally severe service. The Cordage Institute specifies that the Safe Working Load of a rope shall be determined by dividing the minimum tensile strength by the Safety Factor. Safety factors range from 5 to 12 for non-critical uses.

Special Services:
By engineering special rope geometry, custom constructions can be designed to meet specific requirements. Fabricated units can be provided including splices, thimbles, integral chafe sleeves, etc. Colored surfaces are also available for coding purposes, on special order.

Quality Assurance:
All Clancy stage ropes from New England Ropes are made to rigid strength and weight standards, and are guaranteed to be free of manufacturing defects. Sample lots are continually laboratory tested, and certificates of compliance are available on request.

DESIGN CORNER

ELONGATION

<table>
<thead>
<tr>
<th>% Elongation</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>30</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Of Tensile Strength</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

= Manila
= Multiline II
= Stage-Set X

WEIGHT/STRENGTH

<table>
<thead>
<tr>
<th>Nominal Size (in.)</th>
<th>Weight (lbs, per 100 ft) / Tensile Strength (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Manila / Multiline II / Stage-Set X</td>
</tr>
<tr>
<td>1/4</td>
<td>2.0 / 540 / 1.6 / 1,500</td>
</tr>
<tr>
<td>5/16</td>
<td>2.9 / 900 / 2.65 / 2,300</td>
</tr>
<tr>
<td>3/8</td>
<td>4.1 / 1,215 / 3.6 / 3,200</td>
</tr>
<tr>
<td>7/16</td>
<td>5.3 / 1,575 / 4.5 / 4,100</td>
</tr>
<tr>
<td>1/2</td>
<td>7.5 / 2,385 / 5.7 / 5,800</td>
</tr>
<tr>
<td>9/16</td>
<td>10.4 / 3,105 / 8.0 / 6,500</td>
</tr>
<tr>
<td>5/8</td>
<td>13.3 / 3,960 / 9.7 / 8,230</td>
</tr>
<tr>
<td>3/4</td>
<td>16.7 / 4,860 / 13.2 / 10,540</td>
</tr>
<tr>
<td>7/8</td>
<td>22.5 / 6,930 / 18.0 / 15,500</td>
</tr>
<tr>
<td>1</td>
<td>27.0 / 8,100 / 22.0 / 18,700</td>
</tr>
</tbody>
</table>

Compliance to the above specifications is based upon testing according to the Cordage Institute Standard Test Methods for Fiber Rope and/or ASTM D-4268 Standard Methods of Testing Fiber Ropes.

*Weights - are average, and may vary ± 5%. Tensile Strengths - are approximate average for new, unused rope. To estimate the minimum tensile strength of a new rope, reduce the approximate average by 15% (Cordage Institute defines minimum tensile strength as two standard deviations below the average tensile strength of the rope).