Polyester 12 Strand has the lowest stretch and highest strength of all polyester constructions. Its torque free braided construction provides easy handling and prevents kinks and hockles. Polyester 12 Strand is delivered standard with a clear polyurethane finish and is easily spliced using a simple lockstitch type splice. The largest market for this rope, transmission stringing lines, typically consists of sets of ropes in four different colors.

Features & Benefits
- Low stretch
- High strength
- Soft hand
- Torque free
- Easy splicing

Applications
- Transmission stringing lines
- Underground pulling lines
- Lifting slings
- Adjustable transformer slings

### Features & Benefits

- **Low stretch**
- **High strength**
- **Soft hand**
- **Torque free**
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### Applications

- Transmission stringing lines
- Underground pulling lines
- Lifting slings
- Adjustable transformer slings

<table>
<thead>
<tr>
<th>Nominal Diameter</th>
<th>Size (circ in.)</th>
<th>Approximate Weight</th>
<th>Minimum Tensile Strength Spliced Rope</th>
<th>Minimum Tensile Strength ISO Unspliced Rope</th>
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<tbody>
<tr>
<td>inch</td>
<td>mm</td>
<td>lbs/100ft</td>
<td>kg/100m</td>
<td>lbs</td>
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<td>4.2</td>
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<td>174.1</td>
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</table>

Tensile Strengths are determined in accordance with Cordage Institute 1500, Test Methods for Fiber Rope. Weights are calculated at linear density under standard preload (200d) plus 5%. See reverse side for application and safety information.

### Specific Gravity

- 1.38*

### Melting Point

- 482°F (250°C)

### Critical Temp.

- 350°F (177°C)

### Coefficient of Friction

- 0.12–0.15*

### Elongation at Break

- 15–20%

### Fiber Water Absorption

- 0–1%

### U.V. Resistance

- Excellent

### Wet Abrasion

- Excellent

### Dry Abrasion

- Excellent

* value based on data supplied by the fiber manufacturer for new, dry fiber
Polyester 12 Strand

Rope Specifications
Minimum Tensile Strength Minimum tensile strengths shown are for new (unused) rope and will decrease after use. All tests are performed in accordance with Cordage Institute Standard CI 1500-2. The rope strength will be reduced after use due to heat, abrasion, ultraviolet or chemical exposure. The tensile strengths may be further reduced by up to 50% as a result of knots or kinks. Minimum tensile strengths are defined as two standard deviations (typical about 10%) below the average.

Maximum Working Loads Maximum working loads are determined by dividing the tensile strength by the safety factor. The safety factor is a function of the physical properties of the rope, the age and history of the rope, the type of service it will be subjected to and the risks involved if failure occurs. For a rope manufacturer to give blanket working load recommendations would be like a car manufacturer giving the “safe driving speed” of their cars. Obviously the conditions of use far outweigh the design characteristics of the rope. Typically safety factors vary from 3:1 (for new rope used in applications with uniform loading and where failure would cause little or no risk to equipment or personnel) to 20:1 (for conditions involving moderate shock loading, possibility of snags or kinks or where failure could cause severe risk to equipment or personnel).

Rope Weights Rope weights shown are average and may vary plus or minus 5%.

Working Elongation Working elongation is shown from a preload tension of 200 times the diameter squared per the Cordage Institute Standard.

Special Requirements
Factory Splicing Various types are available for all of our ropes. Splices can be provided with various types of chafe protection or coatings.

Custom Lengths Special constructions are available on request.

Rope Terminations Cortland can provide custom terminations such as thimbles, links, rings and custom hardware. Terminations are available in plastic, bronze, stainless steel and galvanized steel. Please call, or email your requirements to cortland@cortlandcompany.com for a quotation.

Special Coatings Coatings such as polyurethane, polyethylene and vinylesters may be applied to any of the synthetic ropes to improve snag resistance, sunlight resistance or for color coding. Cortland can provide ropes with a variety of finishes to meet your needs.

Commercial and Military Specifications Certificates of compliance are supplied at no charge if requested when placing the order. Certified test reports can be provided at an additional charge when requested at the time of the order.

Terms & Shipping Information
Payment Terms Net 30 days from the invoice date with approved credit.

Minimum Billing $500 based on net prices.

Prices and Specifications Subject to change without notice.

Freight all prices are FOB factory – Anacortes, WA USA. Full freight allowance will be given on all surface shipments meeting minimum requirements based on delivery location, provided the invoice is paid within the 30 day terms.

Returned Goods Subject to a minimum 20% restocking charge upon inspection. No returns will be accepted without prior authorization.