The oil and gas industry is known for having some of the most difficult equipment operating conditions found anywhere in the world. Wire Rope Industries offers a full line of specialized Drilltech products and services to meet these challenges. Tested and designed for superior performance and value, our Drilltech line includes top performers such as Cushion 6 drilling lines.

**CUSHION® 6 ROPEs FOR DRILLING APPLICATIONS**

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**CUSHION® 6 INCREASES ROPE PERFORMANCE AND REDUCES EQUIPMENT MAINTENANCE**

- A well-proven 6x19/26 IWRC rope, specially designed for plastic enhancement, provides an excellent performance/strength combination.
- WRI’s exclusive plastic enhancement process maximizes impregnation which cushions and separates the rope strands and steel core. This creates a more balanced rope where stress is evenly distributed and inter-strand nicking is virtually eliminated, resulting in improved performance, increased strength, and better resistance to shock loading.
- Full plastic enhancement significantly reduces stretch and minimizes drum crushing which improves performance and reduces downtime.
- Full rope cushioning minimizes moisture and contaminant penetration, reducing internal abrasion and corrosion.
- A smooth outer rope profile maximizes the contact area between the rope and the equipment, enhancing rope wear resistance and reducing sheave and drum wear.
- Specially formulated lubrication provides protection for individual wires, reducing friction and maintaining freedom of movement between the wires and the plastic.
- External markings on the rope make it easy to identify Cushion 6 high performance ropes.
- Full technical support allows WRI customers to make the correct Cushion Rope selection, obtain the relevant installation, inspection and maintenance procedures, and receive the necessary training.
- Computerized slip and cut programs provide accurate, speedy calculations which optimize rope performance.

**CUSHION® 6 REDUCES OPERATING COSTS AND INCREASES PROFITS**

- Reduced overall operating costs as a result of increased ton/mile (mega joule) performance and trouble-free operation.
- Less downtime as a result of fewer slip and cuts.

For more information on Cushion 6 or any other high performance Drilltech products, please contact your local Wire Rope representative.
CUSHION-PAC® 8 ROPES FOR RISER TENSIONER APPLICATIONS

The oil and gas industry is known for having some of the most difficult equipment operating conditions found anywhere in the world. Wire Rope Industries offers a full line of specialized Drilltech products and services to meet these challenges. Tested and designed for superior performance and value, our Drilltech line includes market leaders such as Cushion-Pac 8 riser tensioner lines.

CUSHION-PAC® 8 INCREASES ROPE PERFORMANCE AND PRODUCTIVITY

- A well-proven Dy-Pac 8 strand construction increases strength, improves rope fatigue life, and provides better resistance to crushing.
- Thermal plastic enhancement significantly increases core protection and strand support, resists infiltration of abrasives and moisture, and reduces stretch.
- Greater rope contact area increases rope life and reduces sheave wear.
- Specially formulated lubrication increases rope performance and reduces the effects of corrosion.
- Full technical support allows WRI customers to make the correct Cushion-Pac rope selection, obtain the relevant installation, inspection and maintenance procedures, and receive the necessary training.
- Computerized slip and cut programs provide accurate, speedy calculations which optimize performance.

CUSHION-PAC® 8 REDUCES OPERATING COSTS AND INCREASES PROFITS

- Reduced overall operating costs as a result of increased ton (mega joule) days.
- Reduced downtime as a result of fewer rope change-outs and slip and cuts.
- Lower maintenance costs as the result of reduced sheave and drum wear.

For more information on Cushion-Pac 8 or any other high performance Drilltech products, please contact your local Wire Rope representative.
BLUE STRAND® ROPEs FOR OILFIELD WInCH APpLICATIONS

The oil and gas industry is known for having some of the most difficult equipment operating conditions found anywhere in the world. Wire Rope Industries offers a full line of specialized Drilltech products and services to meet these challenges. Tested and designed for superior performance and value, our Drilltech line includes Blue Strand quality winch lines.

BLUE STRAND® ROPEs PROViDE IMPROVED PERFORMANCE

- A well-proven 6x36 rope design increases fatigue life and improves drum spooling.
- Specialized constructional properties improve flexibility, handling, and spliceability.
- Specially blended wire tensiles ensure the necessary strength to meet increasing equipment demands.
- An Independent Wire Rope Core (IWRC) provides enhanced strand support, greater diameter consistency and reduced stretch, resulting in improved performance and operational security.
- Specially formulated lubrication increases rope performance and reduces corrosion.
- High quality manufacturing techniques, certified to ISO-9001-94 and API 9A&Q1 standards, ensure consistent rope quality and performance.
- A blue colored strand and well-marked core tracers in all products make it easy to identify Blue Strand quality ropes.
- Full technical support allows WRI's customers to make the correct rope selection, obtain the relevant installation, inspection and maintenance guidelines, and receive the necessary training.

BLUE STRAND® ROPEs ARE COST EFFECTIVE

- Reduced overall operating costs as the result of improved rope performance.
- Reduced equipment downtime resulting from trouble-free operation and technical support.

For more information on Blue Strand ropes or any other high performance Drilltech products, please contact your local Wire Rope representative.
PERFORMANCE SERIES® ROPES FOR OIL AND GAS APPLICATIONS

The oil and gas industry is known for having some of the most difficult equipment operating conditions found anywhere in the world. That’s why Wire Rope Industries designs and redesigns our “Ropes that Outperform” to meet these growing demands.

PERFORMANCE SERIES® 600 ROPES PROVIDE CONSISTENT PERFORMANCE AND IMPROVED OPERATING EFFICIENCIES

- A well-proven 6x26/36 rope design provides the best performance/strength combination to ensure good wear resistance and fatigue life.
- EIPS tensile wire ensures the necessary strength to meet increasing equipment demands.
- Specially formulated lubrication increases rope performance, reduces corrosion, and minimizes environmental impact due to fly-off.
- High quality manufacturing techniques, certified to ISO-9001-94 and API 9A&Q1 standards, ensure consistent rope quality and performance.
- Full technical support allows WRI’s customers to make the correct rope selection and to obtain the relevant installation, inspection and maintenance guidelines.

PERFORMANCE SERIES® 510 SANDLINES INCREASE ROPE PERFORMANCE AND RELIABILITY

- Tested and designed to outperform, we are proud to introduce our new cost effective sandline / swabline rope.
- This new 5x7 construction increases strength, improves wear properties, enhances corrosion resistance and reduces torque.

PERFORMANCE SERIES® 619 DRILLING LINES IMPROVE PERFORMANCE

- A resilient 6x19 (9.9.1) construction with specialized wire provides the added strength, enhanced wear resistance, and improved fatigue resistance necessary to operate on high cycle drill line applications.
- Computerized slip and cut programs provide accurate, speedy calculations which optimize performance.

PERFORMANCE SERIES® ROPES ARE COST EFFECTIVE

- Reduced overall operating costs as the result of consistent performance and rope construction.
- Reduced equipment downtime results from trouble-free operation and technical support.

For more information on Performance Series ropes or any other high performance Drilltech products, please contact your local Wire Rope Industries representative.

**PERFORMANCE SERIES® ROPES WORK**

<table>
<thead>
<tr>
<th>Rope Type</th>
<th>Average Fatigue Test Results (cycles)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERFORMANCE SERIES® 630 6x36 RRL IWRC</td>
<td>40,000</td>
</tr>
<tr>
<td>PERFORMANCE SERIES® 620 6x26 RRL IWRC</td>
<td>30,000</td>
</tr>
<tr>
<td>COMPETITOR A 6x25 RRL IWRC</td>
<td>30,000</td>
</tr>
<tr>
<td>COMPETITOR B 6x25 RRL IWRC</td>
<td>20,000</td>
</tr>
</tbody>
</table>

Average rope fatigue test results are validated using 3/4” (19 mm) diameter rope and 11,800 lb (5,300 kg) load. 11/16” (19 mm) diameter rope, 11,800 lb (5,300 kg) load. 11/16” (19 mm) diameter rope, 11,800 lb (5,300 kg) load.

Wire Rope Industries Ltd. 5501 Trans Canada Highway, Pointe Claire, Quebec Canada H9R 1B7 Tel: (1)-514-697-9711 www.wirerope.com
NEW

PRO-SWAGED® 5 ROPES FOR SANDLINE / SWABBING APPLICATIONS

Wire Rope Industries is proud to present our new Pro-Swaged 5 sandline rope. Tested and designed to outperform, this new specialized rope will meet the ever changing needs of the well service industry.

PRO-SWAGED® 5 INCREASES PRODUCTIVITY AND OVERALL EFFECTIVENESS

- A new 5x7 rope design combined with full rope compaction (swaging) significantly increases strength, allowing for rope downsizing, reduced weight and increased drum capacity.
- The swaging process improves the rope’s stripping capabilities, allowing for cleaner operations and improved drum spooling.
- This high density rope provides exceptional rope performance, decreases the susceptibility to torque, improves corrosion resistance, and stands up well to abuse.
- A smooth outer rope profile reduces wear and increases sheave and drum life.
- Full technical support allows WRI customers to make the correct Pro-Swaged rope selection and obtain the relevant installation, inspection and maintenance procedures.

PRO-SWAGED® 5 CUTS COSTS AND INCREASES PROFITS

- Reduced overall operating costs as a result of increased rope performance.
- Reduced equipment downtime as a result of fewer rope change-outs and trouble-free operation.
- Lower equipment maintenance costs as a result of reduced sheave and drum wear.

For more information on Pro-Swaged 5 or any other high performance Drilltech products, please contact your local Wire Rope representative.
DY-PAC® 6 ROPE TECHDRILLTECH®

NEW

DY-PAC® 6 ROPES FOR WELL SERVICE/WORKOVER RIG APPLICATIONS

Wire Rope Industries is pleased to introduce Dy-Pac 6 high-cycle rope for tubing line applications. We continue to design and redesign our “Ropes that Outperform” to meet all your drilling needs.

DY-PAC® 6 INCREASES ROPE PERFORMANCE AND REDUCES EQUIPMENT MAINTENANCE

- A proven 6x31 IWRC construction and specially selected wire tensiles create ropes that have the most suitable characteristics for Dy-Pac enhancement and rope performance.
- The Dy-Pac strand compaction process increases the steel area of the individual strands, producing a rope with greater strength and increased capacity.
- A greater steel area in the rope results in higher crush resistance and significantly enhanced drum spooling.
- A smooth outer strand profile improves rope wear resistance and reduces sheave and drum wear.
- Greater contact area between each strand reduces inner-strand nicking, increases flexibility under load and enhances fatigue life.
- Specially formulated lubrication increases rope performance, reduces corrosion and minimizes environmental impact due to fly-off.
- Well-marked core tracers make it easy to identify Dy-Pac 6 high performance ropes.
- Full technical support allows WRI customers to make the correct Dy-Pac rope selection, obtain the relevant installation, inspection and maintenance procedures, and receive the necessary training.

DY-PAC® 6 REDUCES OPERATING COSTS AND INCREASES PROFITS

- Reduced overall operating costs as a result of significantly enhanced rope performance “A 60% megajoule improvement”.
- Reduced equipment downtime as a result of fewer rope change-outs.
- Lower maintenance costs as a result of reduced sheave and drum wear.

For more information on Dy-Pac 6 or any other high performance Drilltech products, please contact your local Wire Rope representative.
## SPECIFICATIONS

### PRO-SWAGED® 5

**High Performance Sandlines**

Weights and Breaking Loads

<table>
<thead>
<tr>
<th>Diameter inches (mm)</th>
<th>Rope Construction</th>
<th>Approx. Weight lbs/ft (kg/m)</th>
<th>Nominal Breaking Load tons (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8 (10)</td>
<td>5x7 polyp. core swaged</td>
<td>0.27 (0.40)</td>
<td>7.8 (69.7)</td>
</tr>
<tr>
<td>7/16 (11)</td>
<td>5x7 polyp. core swaged</td>
<td>0.37 (0.55)</td>
<td>10.7 (95.3)</td>
</tr>
<tr>
<td>1/2 (13)</td>
<td>5x7 polyp. core swaged</td>
<td>0.48 (0.71)</td>
<td>13.8 (122.8)</td>
</tr>
<tr>
<td>9/16 (14)</td>
<td>5x7 polyp. core swaged</td>
<td>0.59 (0.88)</td>
<td>17.8 (158.5)</td>
</tr>
</tbody>
</table>

Breaking load values are subject to a minus tolerance of 2.5%.

### PERFORMANCE SERIES® 510

**5x7 Classification Quality Sandlines**

Weights and Breaking Loads

<table>
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<tr>
<th>Diameter inches (mm)</th>
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