

@ BEKAERT

better together

USA Made & Melt Stay Cable Strands

Realize a 100-year bridge design life

Benefits

1 Long-term reliability

2 High service flexibility

3 100% Buy America certified

Why choose Bekaert?

Your wire transformation and coating specialist

No matter what shape, composition or mechanical characteristic your steel wire application requires, with over 135 years of experience, we have the flexibility and technical know-how to comply.

Increase the safety and long-term reliability of your stay cable structure with Bekaert's highly ductile, high tensile steel strands. These robust, seven wire strands made and melt in the USA feature very good fatigue and deflected tensile performance and perform excellent when sheathed and waxed in multi-strand cable stay systems. The mechanical properties of Bekaert cable stay strands are conceived to meet the requirements of for 100-year bridge design life.

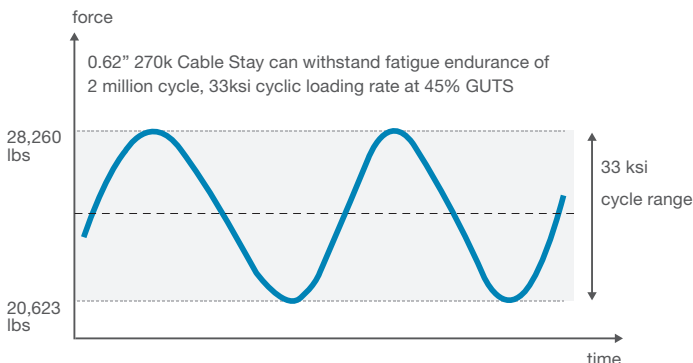
Innovative engineering

Bekaert's ability to engineer solutions puts our product ahead of the competition. Our research and development capabilities allow us to identify a need and engineer the best option for it. We can do more than simply meet the specs and standards. Bekaert's galvanized or uncoated cable stay strands are designed to meet or exceed PTI's 2,000,000-cycle fatigue testing standards.

Customer-driven innovation

Together with customers and independent research partners, we are able to create new solutions that keep up with industries' evolving needs. Our in-house engineering department develops machinery, testing and process equipment to bring those new products to reality.

FATIGUE TEST



Product specifications

Nominal diameter	0.62"
Nominal section	0.231 in ²
Tensile strength	270 ksi
Breaking load	62,800 pounds
Elongation at break	≥ 3.5% in 24" gauge length
Maxi. Relaxation at 100 hrs. at 20°C	<2.5% (initial tension at 0.7 GUTS)
Elastic modulus	28.57 MPsi ±5%
Coating	0.62- 1.15 oz/ft ² (190 - 350 g/m ²) (End Galvanized per PTI DC45.1-12 Section C3.2.2)
Fatigue resistance	≥ 2,000,000 cycles per PTI DC45.1-12, section 3.2.2.1.E

This table describes standard specifications only. For more specifications, contact your Bekaert sales representative.

Constant quality control

All process operations such as wire drawing, galvanization, stranding and packaging are carried out in-house. Product features including diameter, length and metallic coating layer are continuously monitored throughout production.

Packaging

- Wooden drums*
- Coils*
- Custom packaging on request
- Cal-Wrap rust-free wrapping

*Contact Bekaert for dimensions

PROJECT HIGHLIGHTS



PENSACOLA BAY BRIDGE, PENSACOLA, FL

CHALLENGE

This 3.7 miles long cable stay bridge connects the cities of Pensacola and Gulf Breeze. In addition to the obligated 100-year design life, the Florida Department of Transportation only allowed domestically produced galvanized stay cables for this project.

SOLUTION

As the first and only US producer of galvanized stay cable strands, Bekaert was elected the preferred supplier for this project.



ST. LAWRENCE CORRIDOR, CANADA

CHALLENGE

The new bridge for the St. Lawrence corridor is one of the largest infrastructure projects in North America. Important challenges for this project included meeting Transport Canada's design, operational and 100-year design life criteria.

SOLUTION

Bekaert's galvanized cable stay strands were chosen for this project based on their superior corrosion resistance and high tensile strength.

Contact us

More
Information?

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Responsible editor:
Langston Bates - 04 2018