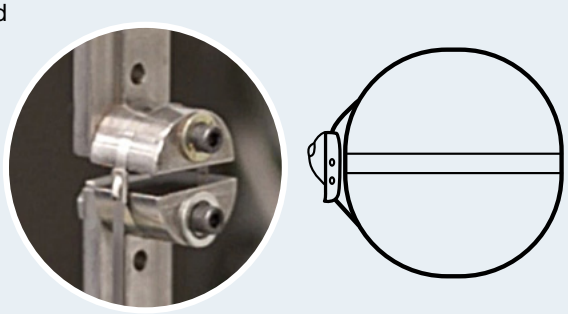
PAN-STEEL® Stainless Steel Ties are superior in strength!

Stainless Steel cable ties are the industry's standard in harsh environment bundling applications where installation needs to be fast and reliable. The locking ball mechanism locks the tie in place once the body is threaded through the head, creating a secure lock. Panduit has tested our metal locking ties to prove our design superiority and performance.

Testing method

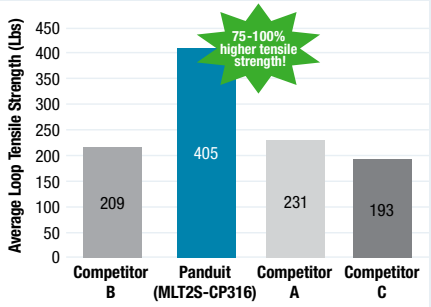
A variety of tie samples were installed on a split mandrel and tensioned by hand. Once tensioned the split mandrel applied force on the tie and measured for elongation vs tensile strength. The sample size for each trial was 15 ties, and ties were installed on the mandrel in compliance to UL62275 standard for cable ties. We noted other considerations from best practices were:

- Calibrate system accurately to show a 0 lbs. force before initiating test
- The tension capacity of the test system should be sufficient to break the strongest cable tie you plan to test
- Constant rate tests with closed-loop control will provide the most accurate and repeatable results
- Competitor ties with similar dimensions and steel grade to Panduit ties were chosen for consistency

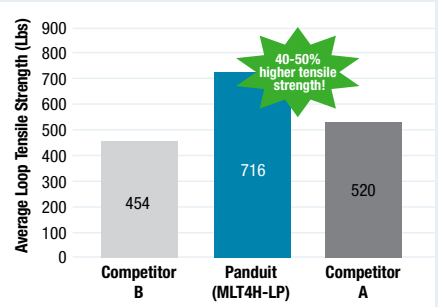


Testing Results

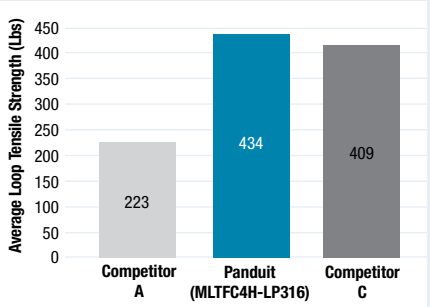
Standard Width 316 SS ties (0.18″wide)



Heavy 304 SS Ties (0.33″wide)



Heavy Fully Coated 316 SS Ties (0.33″wide)



- Panduit offers a superior cable tie design which leads to the highest average loop tensile strength for standard and heavy widths.
- Panduit publishes a rated tensile strength typically noted as a minimum of 200lb for standard ties, which has a safety margin added based on the standard deviation.
- Pan-Steel® stainless steel cable ties have a sufficient loop tensile strength safety margin, and offer substantial reliability.
- Pan-Steel® cable ties are stronger, more reliable, and safer in comparison to other leading stainless steel tie suppliers.