Wire Crimp Quality Test
S-Type

Industry: Test and Measurement

Summary

Customer Challenge

Wire crimp pull testers measure the tensile strength of crimped connectors, terminals, and ferrules to verify connection quality and reliability. Manufacturers need accurate, repeatable force measurements to ensure crimps meet required specifications and industry standards. Weak or improperly formed crimps can lead to electrical shorts, power failures, and other product reliability issues.

Interface Solution

Interface supplied the SMT Overload Protected S-Type Load Cell to accurately measure tensile force during crimp pull testing. The S-Type design is well suited for inline tension measurements, while overload protection helps safeguard the sensor during destructive testing. The 9325 Portable Sensor Display provides a convenient way for operators to monitor force measurements during testing.

Results

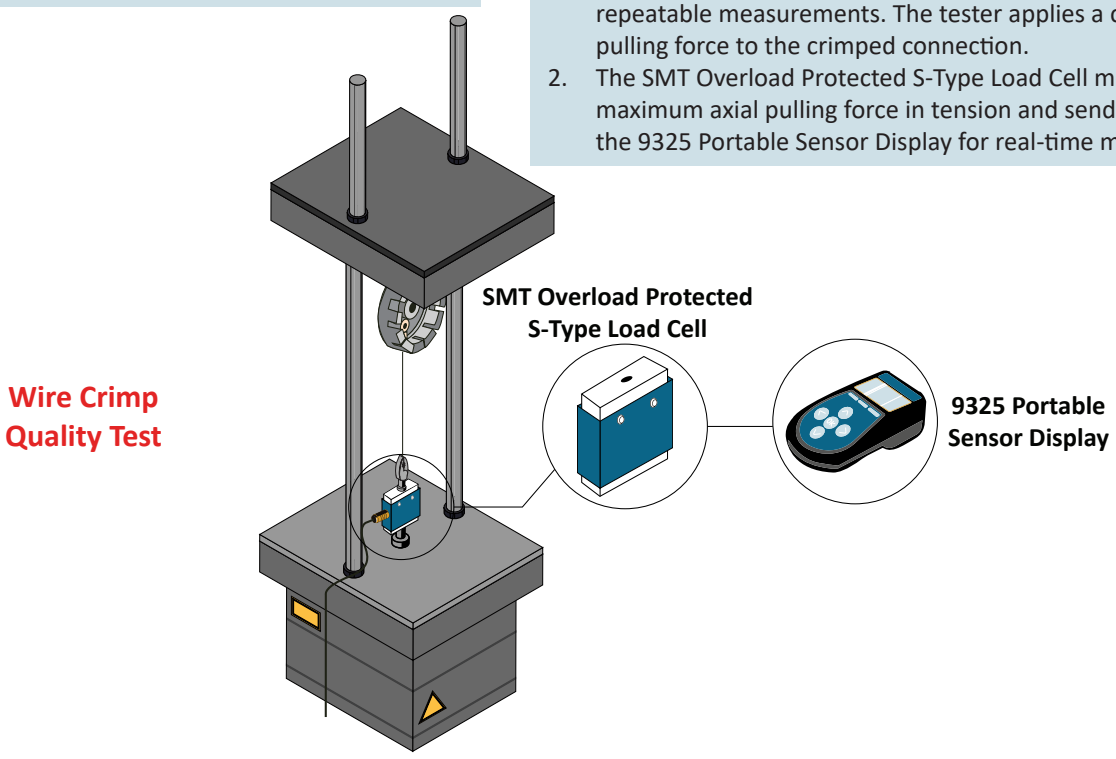
The Interface solution provides reliable force measurement for evaluating crimp connection strength and consistency. The SMT load cell captures the pulling force applied to the connection, while the 9325 displays the measured force for easy monitoring. Together, they provide a flexible solution for production, quality assurance, and laboratory crimp pull testing.

Materials

- SMT Overload Protected S-Type Load Cell
- 9325 Portable Sensor Display

How It Works

1. The crimped connection is secured in the wire crimp pull tester, and the system is calibrated to ensure accurate, repeatable measurements. The tester applies a controlled pulling force to the crimped connection.
2. The SMT Overload Protected S-Type Load Cell measures the maximum axial pulling force in tension and sends the signal to the 9325 Portable Sensor Display for real-time monitoring.



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FORCE MEASUREMENT SOLUTIONS

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