

Technical Writeup and Specifications for Crimp Pull Tester

Crimp Pull Tester is intended herein is for to test the tensile strength of crimped connections. It is used to evaluate the quality and reliability of crimped contacts. The equipment applies a pulling force to the crimped connection and records the maximum force applied. This data is used to determine the strength of the connection and to ensure that it meets the required specifications. Harness Evaluation Section of RQEG responsible for various new process qualifications and during root cause analysis as part of non-conformance evaluation and also for vendor quality evaluation of crimps before commencing of the project. Hence the crimp pull tester is very essential for Harness Evaluation Section. The detailed technical specifications of the tool are listed below.

SI No.	Features	Requirements
A	Motorized-Test Stand	
1.	Force Capacity	1500N or Higher
2.	Cross Head Travel Height	≥390mm
3.	Speed Range	5.20mm/min or lower to 1010mm/min or Higher
4.	Speed Accuracy	0.1% of set speed value or Higher Accuracy
5.	Thorat Depth	≥90mm
B	Digital Force Gauge with Software and USB cable	
1.	Force Capacity	1000N or Higher
2.	Accuracy	0.1% of Full Scale or Higher Accuracy
3.	Maximum Overload	150% of Rated Capacity or Higher
4.	Resolution	0.01N or High Resolution
5.	Software	Features of Workflow: 1)A transparent data link should have to be present from the machine to computer. 2)Facility of export of measuring results and csv rapport. 3)Real time trace of graphics and measure of results should have to present. 4)Time/Date stamped databases should have to there. 5)It should have to compatible to Windows 10 Systems Analysis and Functions: 1)Configurable Test should have to be there. 2)Limit Pass/Failure Option should have to be there. 3)Customized PDF report option should have to be there
C	Terminal Testing Fixture Set up for crimped wire pull test	Sample Size: From 0.4mm or lower to 6mm or higher The Upper fixture should have to consists of self-aligning wheel with 9 equally or more spaced slots to accept standard terminal shank sizes. Bottom fixture should have to be an eccentrically mounted, self-tightening knurled roller which accepts wire diameters up to 3mm or Higher
D	Warranty	12 Months or more after Installation