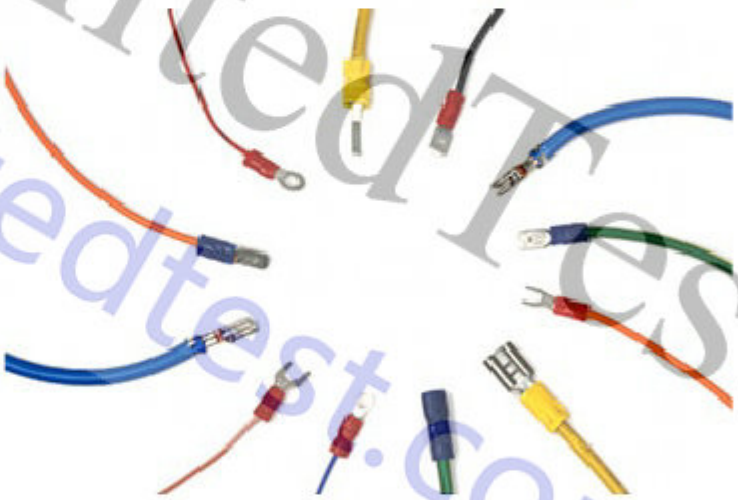
Wire terminal strength tester

UWT-1 (1KN)

WDW-5 (5KN)



1, General introduction

Wire terminal, cable lug, wire crimp, solder, lugs etc., is widely use is various industry. The quality of a crimp joint depends on the strength of the joint as well as its electrical conductivity. Crimp joint testing can ensure the integrity of the final product. In general, wire connection lug testing can be broken into two categories; destructive pull testing and non-destructive pull testing. These tests both aim to determine a tensile force that the test wire can withstand. To meet the requirements of standard specifications, the tensile force that a wire can withstand must be greater than the minimum tensile strength defined by the standard.

3, References

ASTM B913: Standard Test Method for Evaluation of Crimped Electrical Connections to 16-Gauge and Smaller Diameter Stranded and Solid Conductors.
ISO 1966: Crimped joints for aircraft electrical cables
ASTM F458: Standard Practice for Nondestructive Pull Testing of Wire Bonds1,2
EIA 364-08B: Crimp Tensile Strength Test Procedure for Electrical Connectors
SAE/AS 7928: Terminal, Lug, Splice, and Crimp Copper Strength Specifications

3, Main technical specification

Model: UWT-1
1, Max. load: 1000N
2, Stroke: 150mm
3, Clamping range: customized
4, Power: 220V, 110V.

Model: WDW-5

Load capacity	100N, 200N, 500N, 1Kn, 2KN, 5KN
Frame proof load capacity	150% of rate capacity
Multiple load cell in one machine function	YES
Load Accuracy	Class 1/0.5 according ISO7500-1
Load cell overload capacity	150% of rate capacity
Load measuring resolution	1/500000 FS, stepless
Position / displacement resolution	0.001mm
Crosshead travel	1150mm
Tensile test space	800mm
Compression test space	900mm
Standard tensile test fixture	Corrugated Opposite clamping
Compression platen diameter	Φ100mm
Testing speed range	0.001 mm/min～500 mm/min, stepless, adjustable arbitrarily
Weight	110kg
Standard Power	220/110V, 50/60HZ, 1 phase
Dimensions	520×410×1500mm
Analysis software	SmartTest English version
Working system	MS Win7 / Win10