

# MPT-250C Wire Crimp Pull Tester



The **MPT-250C** is a Motorized Tensile Wire Crimp Pull Tester used to test a crimp contact's or terminal's tensile strength. The unit has a range of 2.5 lbf to 250 lbf and a full color LCD touchscreen interface. Includes data capture capability for exporting test data to a PC via USB or RS-232. *The MPT-250C meets UL, ISO, SAE, MIL, and ASTM tensile test requirements.*

## Features and Specifications

- 2 Test Types: "Pull to Fail" and "Force Hold"
- Data Capture (measures continuous and peak force values)
- Compact / High Stability Profile
- Intuitive Full Color Touchscreen LCD User Interface
- Easy Setup, Operation, and Grip Change
- Force Measurement Range: 2.5 – 250.0 lbf (113kgf or 1112.0N)
- Force Measurement Resolution: 0.1 (lbf, kgf, N)
- Force Measurement Accuracy: +/- 0.5% Full Scale
- Force Readout in (lbf, kgf, N)
- Safe Force Overload: 150% of Full Scale
- Pull Rate Speeds: 1 to 10 inches per minute (inch / min)
- Pull Rate / Speed Accuracy: 1-5 +/- 0.125 inch/min, 6-10 +/- 0.250 inch/min
- Accommodates Most 10 AWG - 26 AWG Wire
- Communication Ports: Serial RS-232 (DB9 female connector), USB 2.0
- Power Requirements: IEC Connector, 100 – 240VAC, 50/60Hz, 25 Watts maximum
- External Fuse Type and Rating: Type 3AG (6.3 X 32mm) 1A time delay, 250VAC

## Standard Accessories

- Self-Tightening Cam-Type (Contact) Grip (P/N 15-3202C)
- Heavy-Duty Swivel Lockdown Upper Grip (P/N 15-3046)
- Custom Fit, Foam Lined, Hard Shell Shipping / Travel Case

## Optional Accessories

- Ring Terminal Grip (P/N 15-0066C)
- Miniature Contacts Grip (P/N 15-3314)
- Slotted Terminal Grip (P/N 15-3087C)
- Safe-T-Cable Grip Set (P/N 15-3318)
- Customized Grips are available for specific applications

## Physical

- Weight 23.64 lbs (less options)
- Shipping Weight ≈ 40.6 lbs (with typical / standard grips)
- Case Weight 16.12 lbs
- Base Dimensions: 13.3" Wide x 6" High x 11" Deep

## Calibration

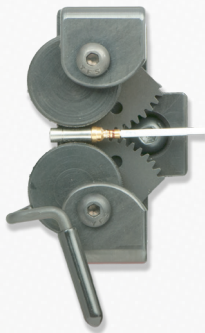
- New units are supplied with a "Certificate of Calibration"
- Factory Calibration available

## MINIMUM TENSILE STRENGTH REQUIREMENT\*

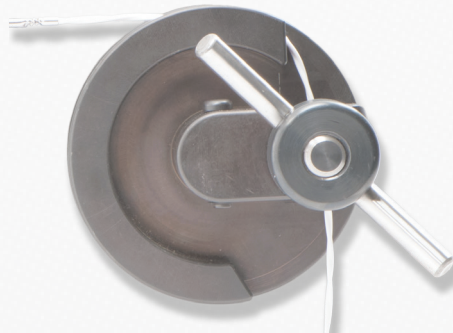
| CONDUCTOR SIZE<br>AWG (REFERENCE) | UL 486A TEST VALUES<br>(COMMERCIAL STANDARD) |        | TYPICAL MIL-SPEC<br>(AS22520, AS7928, ETC) |        |
|-----------------------------------|--|--------|--|--------|
|                                   | AWG  | Pounds | Newtons                                    | Pounds |
| 26                                | 3  | 13.4   | 7  | 31.2   |
| 24                                | 5  | 22.3   | 10   | 44.5   |
| 22                                | 8  | 35.6   | 15   | 66.8   |
| 20                                | 13   | 57.9   | 19   | 84.6   |
| 18                                | 20   | 89.0   | 38   | 169.1  |
| 16                                | 30   | 133.5  | 50   | 222.5  |
| 14                                | 50   | 222.5  | 70   | 311.5  |
| 12                                | 70   | 311.5  | 110  | 489.5  |
| 10                                | 80   | 356.0  | 150  | 667.5  |

\*Consult DMC for specific information on tensile strength standards.

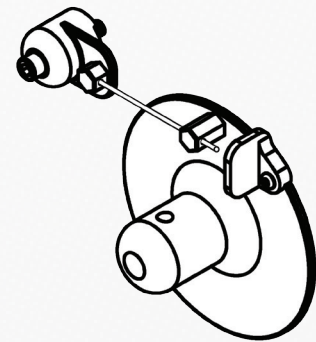
## MPT-250C STANDARD AND OPTIONAL GRIPS



**15-3202C**  
**Cam Grip**  
 Standard Contact Grip  
 Terminal Lugs, Machined Contacts



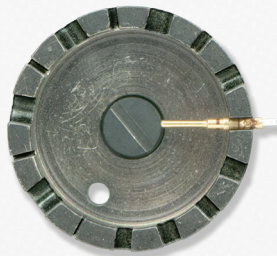
**15-3046**  
**Standard Wire Pull Grip**  
 Heavy-Duty Swivel  
 Lockdown Upper Grip



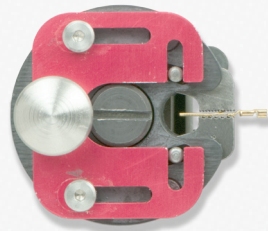
**15-3318**  
**Safe-T-Cable Pull and Grip Set**  
 Optional Self-aligning Hole Guides  
 .022, .032, & .040 Safe-T-Cable.



**15-0066C**  
**Post Grip**  
 Optional Contact Grip  
 Ring Terminals



**15-3087C**  
**Slotted Wheel Grip**  
 Optional Contact Grip  
 Terminal Lugs,  
 Machined Contacts



**15-3314**  
**Mini-Vise Grip**  
 Optional Contact Grip  
 Miniature Contacts



**MPT-VF**  
**Weight Hanger for**  
**Verification Only**  
 Optional Accessory  
 Verification Fixture