

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

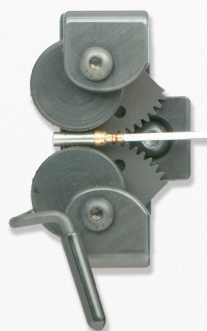
- New units are supplied with a "Certificate of Calibration"
- Factory Calibration available

MINIMUM TENSILE STRENGTH REQUIREMENT*

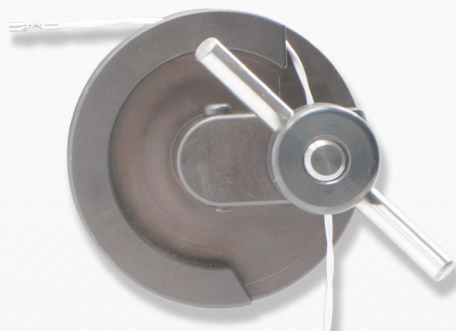
CONDUCTOR SIZE AWG (REFERENCE)	UL 486A TEST VALUES (COMMERCIAL STANDARD)		TYPICAL MIL-SPEC (AS22520, AS7928, ETC)	
	Pounds	Newtons	Pounds	Newtons
26	3	13.4	7	31.2
24	5	22.3	10	44.5
22	8	35.6	15	66.8
20	13	57.9	19	84.6
18	20	89.0	38	169.1
16	30	133.5	50	222.5
14	50	222.5	70	311.5
12	70	311.5	110	489.5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

*Consult DMC for specific information on tensile strength standards.

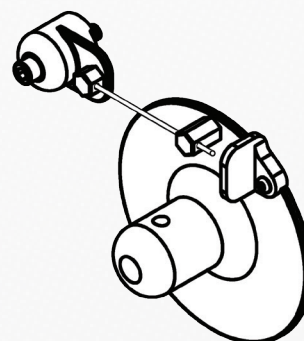
MPT-250C STANDARD AND OPTIONAL GRIPS



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



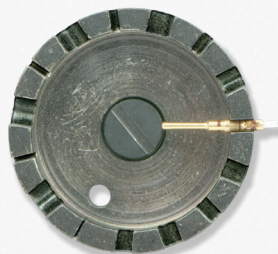
15-3046
Standard Wire Pull Grip
Heavy-Duty Swivel
Lockdown Upper Grip



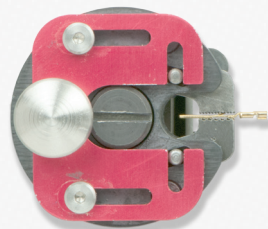
15-3318
Safe-T-Cable Pull and Grip Set
Optional Self-aligning Hole Guides
.022, .032, & .040 Safe-T-Cable.



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