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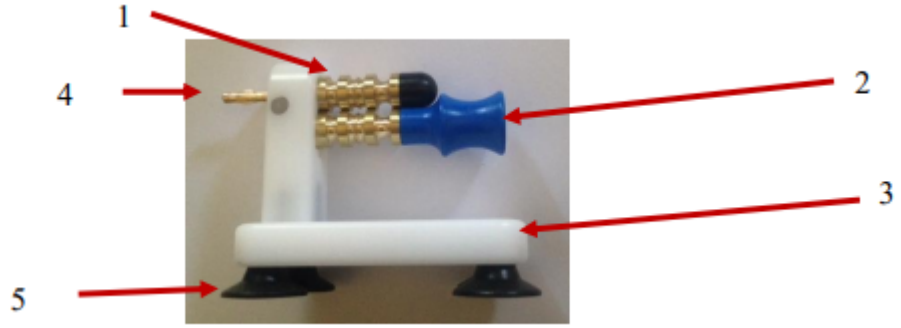
Instructions for Use: Wire Testing Unit

Brand Name of Product	McGan Wire Testing Unit
Generic Name of Product	Wire Tester
Product Code Number(s)	MMWIT-200A
Intended Use	To test the insulation integrity of electrosurgical cables used to connect the electrosurgical generator (either to the active handpiece or to the return electrode) completes the circuit between the generator and the patient.
Range of Applications for Product	To easily test the electrosurgical cables
Key Specifications of Product	• Top drum with black cap • Bottom drum spring-loaded with blue handle • Base • Connection pin • Suction feet • Wire Tester Voltage: 4.2 ± 0.3 kilovolt (kV)

Shipping & Storage	
Shipping Conditions & Requirements	N/A
Storage Conditions	N/A
Packaging Conditions	N/A
Shelf Life	N/A

Instructions for Using Product	
Description of Use(s)	To test the continuity of electrosurgical cables.
Preparation for Use	1. Read the full Operator's Handbook for the MM513-100 in detail. 2. Put on gloves or surgical gloves before operating the Wire Testing Unit. *NOTE: If you do not use gloves, you may receive a slight shock or "tingle" when touching the exposed core of the wire and the conductive parts of the Wire Testing Unit.* 3. Place unit on a metal surface for the suction feet will adhere to.
Diagrams (drawings, pictures)	**Components of the Wire Testing Unit 1-5**  **1. Top drum with black cap** **2. Bottom drum spring-loaded with blue handle** **3. Base** **4. Connection pin** **5. Suction feet**

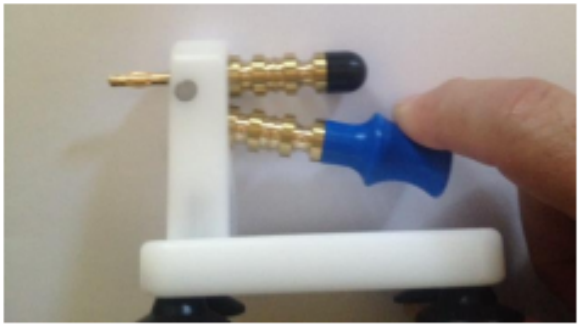


Figure 1

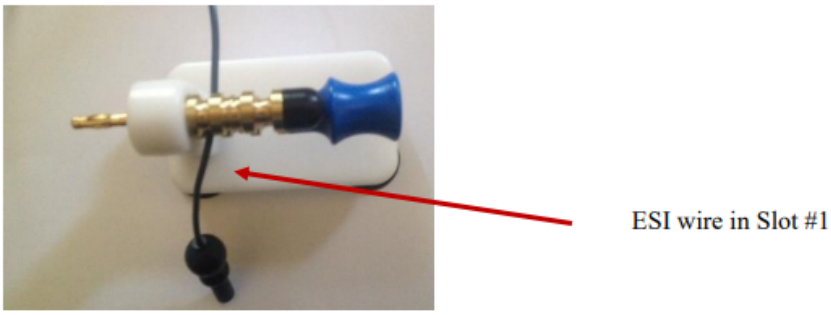


Figure 2

Wire Size in mm	Slot to use
1.5 to 3.0	2 (only one of the duplex sides)
3.1 to 4.0	1
4.1 to 5.5	3
Duplex wires to 6.0mm total diameter or max of 3.0 each	2 Center the wire between the two slots

Slots	1	2	3

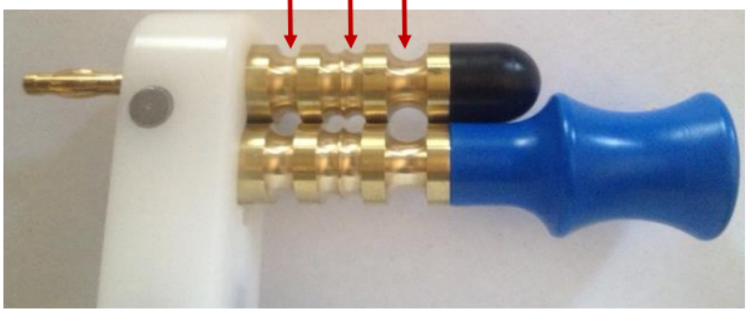


Figure 3

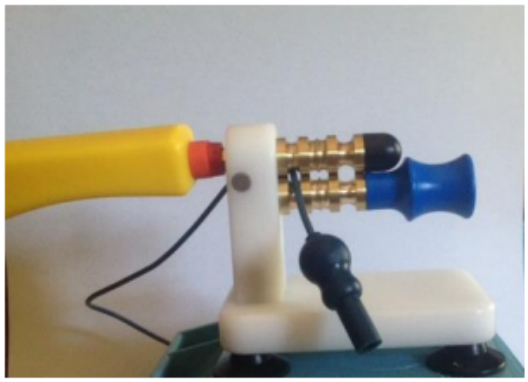


Figure 4

Steps for Use of Product	1. Push on the top of the Wire Testing Unit until the suction feet are secure. 2. Connect the earth (ground) green wire to the MM513-100 base unit's green port. 3. Connect the high-voltage (HV) red wire to the MM513-100 unit's red port, connect the yellow handle's red port to the connection pin. (The HV red-wire is an option to the MM513-100 kit). 4. As much as possible, lay the wire to be tested on a flat surface and flatten it out. 5. Attach the alligator clamp at the end of the earth wire to the exposed end of the wire to be tested. For a duplex wire, make sure the alligator clamp is attached to BOTH conductive cores. 6. Separate the drums by pulling down on the blue handle (#2) so that the top drum comes to a stop. **(Fig. 1).** 7. Insert the wire to be tested into the appropriate slot according to the diameter of the wire. The slots are 4.0 mm (on pin side #4), duplex 3 mm (middle), and 5.5 mm (near the handle). **(Fig. 2).** 8. The table for wire to slot size, see **(Fig. 3)**. 9. The blue handle is spring-loaded and will close against the top drum (#1 above). Make sure the wire remains in the designated slot during the test. 10. Turn the MM513-100 base unit on and set the kV to 4.2- ± 0.3 kV. *11.* Hold both ends of the wire and slowly pull the wire through the slot. *(NOTE: You can move the wire either forward or back during the test.)* 12. If the alarm sounds and LED lights up, then the wire has pinhole or crack through to the conductive core. 13. The McGan Wire Testing Unit will *ONLY* locate and identify defects that are through to the core and *ONLY* for wires defined as a conductive core (usually copper) with a jacket covering the core. *NOTE: This device will not test cables* (e.g., conductive core, dielectric, shield and outer jacket, or any wire that does not have a jacket directly over the core). 14. Optional: Pull the wire back through the slot to re-check the jacket. 15. After completing the test, turn off the MM513-100. 16. Separate the drums by pulling down on the blue handle and removing the wire. 17. Remove the wire that was tested while following the proper facility procedure for disposition or reuse of the wire. 18. The MM513-100 should always be switched off prior to removing or repositioning of the wire under test.
Interpretation of Test Results	N/A
Contraindications of Test Results	N/A
Documentation	N/A
Special Warnings and Cautions	• The MMWIT-200A has been designed to be used *ONLY* with McGan Insulation testers and no assurance of proper functioning with other insulating testing units. • When used together with the MM513-100 unit you will need the MMRWP-0006 HV red wire, which is optional to the kit. • Wear surgical gloves (or other types of gloves), while operating this unit. • Do not use a chemical sterilization method. • Do not steam; sterilize. • Use gloves, or you may receive a slight shock or "tingle" when touching the exposed core of the wire and the conductive parts of the McGan Wire Testing Unit.
Disposal	N/A

Reprocessing Instructions	
Point of Use	N/A
Preparation for Decontamination	N/A
Disassembly Instructions	N/A

Cleaning – Manual	N/A
Cleaning – Automated	N/A
Disinfection	Base Unit (White) and Blue Handle: • Dab a non-linting wipe in alcohol and wipe down the base unit. • Do not saturate the wipe. Red HV Wire/Green Ground Wire: • Use an alcohol swab and wipe both the red and green wires, including the mini handle (yellow) on the red HV wire. • Do not get alcohol in/near the red port on the top of the mini handle. (NOTE: Do not saturate the wipe with alcohol.) Brass Drum: • Dab a non-linting wipe in alcohol (do not saturate) and wipe down the base unit. • Thoroughly dry all components before use.
Drying	N/A
Maintenance, Inspection, and Testing	N/A
Reassembly Instructions	N/A
Packaging	N/A
Sterilization	N/A
Storage	N/A
Additional Information	N/A
Related Healthmark Products	Insulation Tester and Bi-Polar Fixture
Other Product Support Documents	ProSys™ Brochure, ProSys™ Price List
Reference Documents	N/A
Customer Service Contact	Healthmark Industries Company, Inc. 18600 Malyn Blvd. Fraser, MI 48026 1-586-774-7600 healthmark@hmark.com hmark.com