



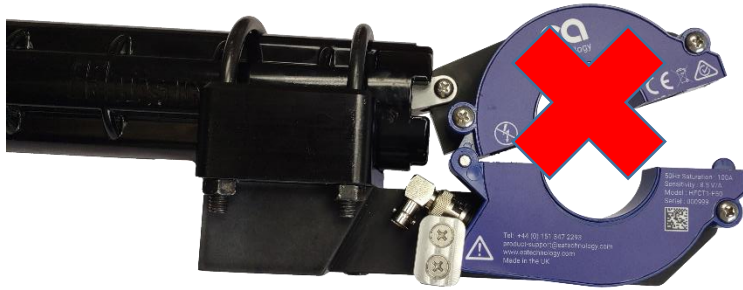
## SureReach HFCT Stick - Safety and Operation

The purpose of the SureReach HFCT Stick (HFCT Stick, for short form) is to allow the user to remain safely away from dangerous voltages when installing the HFCT on the ground straps of cables. It is not intended to provide electrical isolation from energized conductors. Used properly, the HFCT Stick reduces but does not eliminate the likelihood of accidental contact.

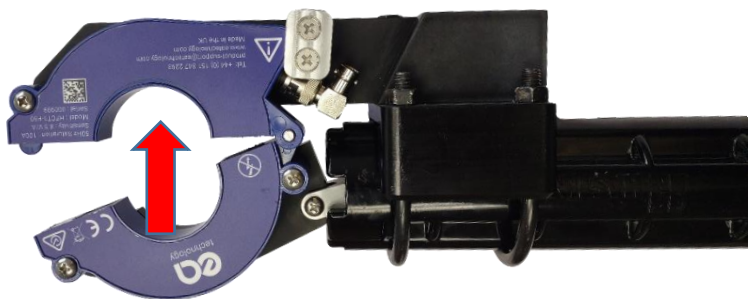
### Safety Warnings

- This product must only be used by qualified personnel, skilled in the practice of and properly equipped for working in close proximity to the voltages involved. Under no circumstances may unqualified people operate this product.
- This device must never be placed around or near the conductors, regardless whether they are bare or insulated.
- Due to the HFCT BNC cable, the HFCT Stick does not provide total isolation from dangerous voltages.
- Until the HFCT is connected to the ground strap, the user MUST maintain separation from the HFCT BNC cable as it may become energized if the HFCT gets too close to an energized component.
- Once the HFCT is safely placed on the ground strap, the HFCT BNC cable should remain at a safe voltage. It is up to the user to determine that this is a case due to the placement.

- In general, there should be no physical load from the ground wire placed on the HFCT. The load should be applied to the edge of the HFCT Stick. In the event that is not possible, the HFCT Sticks should never be hung so that there is a load on the hinged portion of the HFCT. Applying the HFCT Stick this way will affect the test results and may damage the HFCT. If a load is to be applied, it should be on the fixed portion of the HFCT as shown in the second picture below.



Never allow hinged portion of the HFCT Stick to take a load on the cable ground.



Correct position for load from a ground wire.

- The SureReach HFCT Sticks MUST be handled with the same care and treatment as conventional hotsticks. Please see the Hastings website for additional information
- The SureReach HFCT Sticks MUST be subject to the same pre-use testing and maintenance as conventional hotsticks. Please see the Hastings website for additional information
- When using the SureReach HFCT Stick, wear appropriate PPE and do not place hands or body parts closer than the minimum safe distance to energized components. A full risk assessment and arc flash hazard assessment must be done in accordance with NFPA 70E to establish the minimum safe distance.

- Extreme care MUST be used and all local and corporate safety practices MUST be followed when using this product. If in doubt, don't do it!
- We do not offer or supply a working "rating". Hastings, as a manufacturer of Hot Line Tools is required to test all fiberglass tools per OSHA/ASTM F711. In essence this rule states that all newly manufactured Hotsticks must be able to withstand 100KV (100,000 Volts) for 5 minutes.


## Safety Clearance Distances and NFPA 70E


This product is intended to allow the placement of HFCT onto ground straps without ever violating the minimum distances required by NFPA 70E. As the HFCT has a conductive connection from it to the UltraTEV Plus<sup>2</sup> or CDC and from the CDC to a laptop, certain precautions must be taken.

- Ideally, the conductive parts at the end of the HFCT and attached cable should never violate the NFPA minimum clearances, including allowance for inadvertent movement.
- In the event that this is not possible, the user must consider the conductive parts at the end of the HFCT Stick and attached cabling / devices to be at live potential and maintain clearances to that equipment until the HFCT is in place and all conductive parts are outside the NFPA minimum distance.
- Only once the HFCT is in place, no longer moving, and the HFCT and all attached cabling / devices are outside the NFPA minimum clearance distance can the attached devices such as the instrument and laptop be considered safe.
- In the event that the physical configuration of the conductors do not allow for all parts of the HFCT / cables / CDC / Laptop / UltraTEV Plus<sup>2</sup> to be outside the NFPA 70E minimum clearance distance, the SureReach HFCT Stick **MUST NOT** be used. Serious Injury or Death may result. These conditions may be acceptable with a Fiber Isolated CDC is used with the appropriate consideration.

## SureReach HFCT Stick Safety Warning label

**Warning!**

 **THIS HFCT STICK DOES NOT PROVIDE HV ISOLATION! THE HFCT CABLE IS NOT ISOLATED FROM THE HFCT!**

 **MAINTAIN SPACING FROM THE HFCT CABLE AND ITEMS CONNECTED TO IT UNTIL AFTER THE HFCT IS SAFELY CONNECTED TO THE GROUND STRAP!**

The sticks are designed to keep the user out of the hazardous area while applying the HFCT. Only once the HFCT sticks are safely installed on good ground straps is it safe to touch the UltraTEV / CDC and laptop.

HFCT Sticks are for use at ground potential only and provide no insulation against high voltage! Only persons legally qualified to work on energized equipment are permitted to install HFCT's. Local and corporate safety practices must be followed.

Read the user's manual for additional safety precautions.

## Operation

1. Perform a risk assessment and arc flash assessment to determine the minimum safe distance prior to approaching the high voltage components
2. Prior to installing the SureReach HFCT Stick on the ground strap, make all UltraTEV Plus<sup>2</sup>, CDC, and laptop connections. Place UltraTEV Plus<sup>2</sup> and CDC in a location that will allow the HFCT cables to safely reach the switchgear without stretching. Do not allow anyone near the UltraTEV Plus<sup>2</sup>, CDC, or laptop when installing or removing the HFCT Stick.
3. Holding the SureReach HFCT Stick safely, press the release lever and move the slide toward you to open the jaws of the HFCT.
4. Prior to installing the HFCT in the switchgear, practice closing the jaw to understand the proper amount of force required to allow the HFCT Stick to close by itself. When properly closed, the jaws will magnetically connect. No additional pressure should be applied by sliding collar further forward.

5. While maintaining safe separation distance from the cables, CDC, and laptop or UltraTEV Plus<sup>2</sup> carefully position the HFCT around the ground strap and close the jaw by moving the slide forward.
6. Position the HFCT as close as possible to the ground bar end of the ground strap. NEVER should the HFCT be near the cable termination end of the ground strap.
7. Position the tail end of the Surereach HFCT Stick so it can rest safely without putting undo stress on the ground connection. Also, avoid positioning the tail end of the HFCT Stick near any dangerous voltages.
8. Inspect the positioning again, prior to using the UltraTEV Plus<sup>2</sup>, CDC, and laptop to ensure the HFCT is closed tightly around the ground strap and that no portion of the HFCT Stick or HFCT cable is within minimum spacing to dangerous voltages.
9. When removing the HFCT Stick, use extreme care to ensure it does not come too close to dangerous voltages.
10. Do not allow anyone to be near the test equipment when removing or installing the Surereach HFCT Sticks.

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