

SureReach HFCT Stick

HFCT's are used to detect and measure partial discharge in shielded cables. A SureReach HFCT Stick allows placement of the HFCT while maintaining a safe distance from the High Voltage.

HFCT for cable PD testing

Shielded cables used at 2500V and above require engineered terminations. If these terminations are not done correctly, partial discharge and eventual failure can occur. Partial discharge can also result from cable defects or damage.

HFCT's need to be mounted on the ground straps of shielded cable to detect partial discharge. By mounting them on the ground strap adjacent to a solid ground point, they remain at a safe potential under any system conditions.

HFCT's are specially designed to detect high frequencies well above the power system frequency. This allows them to be sensitive to very low PD currents in the presence of large power system currents.

Features:

- HFCTs open, close, and lock on with convenient ratchet system.
- Portable and rugged, made for daily lineman usage.
- Comes as a kit with one or three HFCT Hotsticks and a rugged carrying case.
- Works with the EA Technology CableData Collector and the UltraTEV Plus2.
- Uses industry standard Hastings hotstick.

Benefits:

- Provides the ability to remotely attach HFCT's to cable grounds to perform online testing.
- Allows customers with live work restrictions to test their cables.
- Clip on/Clip off action of tool allows for cable testing to be done in a few minutes.
- Provides added safety by keeping user further from energized cables.



Warning – Installation of HFCT equipment in proximity to high voltage can be dangerous. The HFCT Stick does not provide isolation! The HFCT cable is not isolated from the HFCT. Follow all applicable safety rules and maintain adequate spacing between the HFCT Stick and the high-voltage. Proper procedures must be followed, or injury or death can result.

Feature	Specification
Bore Diameter	50mm (2")
Outer Diameter	100 mm (4")
Height	150 cm (59")
Frequency Response	1 MHz – 70 MHz
Impedance	50 Ohms
Connector	Male BNC
IP Rating	2X
Installed or storage Temperature	-40C to +55C
Operating Temperature	-20C to +50C
Net Weight	6 lb (2.8 Kg)

SureReach HFCT Stick Specifications

The SureReach HFCT Stick is a simple to use, rugged, accessory for EA's CableData Collector or UltraTEV Plus2. It is used to quickly clamp an HFCT to a cable ground strap on Medium and High Voltage cables and remain there during the online cable test which takes just a few minutes. An industry standard "Shot Gun" stick is used with a custom designed mechanism to lock onto the external cable ground for a cable phase. One or Three HFCT Sticks are provided in a rugged wheeled carry case. This is the right tool to use when there are distance access restrictions.

MV cable terminations can be found inside metal clad switchgear as well as on riser poles like the one pictured. Any location where the HFCT can be installed safely can be tested.



A close-up of the SureReach HFCT Stick



Three SureReach HFCT Sticks in carrying case



Single SureReach HFCT Stick in carrying case

Ordering Code	Description
HSTC-1S Kit	<p>1 SureReach HFCT Stick with Wheeled Softcase</p> <p>L64" x W12" x H12" L162cm x W30cm x H31cm 23 lb (10 Kg)</p>
HSTC-3S Kit	<p>3 SureReach HFCT Sticks with Wheeled Softcase</p> <p>(Case holds 3 HFCT Sticks) L64" x W20" x H12" L162cm x W51cm x H31cm 40 lb (18 Kg)</p>