HAEFELY

Current and voltage – our passion

RSKF

VARIABLE FREQUENCY RESONANT TEST SYSTEM ON SITE CABLE TEST

www.haefely.com





ON SITE CABLE TESTING MADE EASY

On site withstand voltage testing is an essential part of a cable laying and commissioning project. Cables and accessories are tested separately during routine testing in the factory. Testing on site is a check of proper assembly of cable and accessories together.
Longer lengths of cable - 20 km or more - are being laid in order to keep pace with growing cities. With longer lengths of cable the system used to test the cable also has to be of larger power.
HAEFELY offers RSKF series of on site cable test systems based on the latest of **fre-quency converters** to facilitate such testing with **fixed core, variable frequency reactors**. These reactors are lighter and more powerful vis-à-vis variable inductance fixed frequency reactors.
As per our general philosophy, the focus is on ease of mobility and usage on site.

HARDWARE: AN EXPERT'S CHOICE

HAEFELY has over one century of combined experience in design and construction of HV series reactors modules. We have traditionally been the industry trend setters for cable routine test systems.
Reactor: made from best quality flat stacked lami-nations with fixed air gaps and is designed to have a very low loss. It has a long lasting design and is operable between **20-300 Hz**.
Frequency converter: has a top of the line converter technology; compact and with tailor made software control algorithms.
Control / Frequency converter room: is derived from a standard 20' ISO container. The frequency converter and the exciter are in a separate portion of the container and the user in another, thus ensuring safety.

FEATURES

- Mobility with regular length trailers
- Withstand voltage test capability according to IEC
- Frequency range 20 ... 300 Hz
- Pure sinusoidal waveform at system output
- Standard 3 Phase diesel generator can feed the system
- Front end components and control room: air conditioned
- Thermal management: with wireless temperature sensors
- Thermal design: active cooling even for reactors with live tanks

PRODUCT OVERVIEW

RSKF

165-60 260-83

CABLE RANGE

Cable Class [kV]	Test Voltage [kV]	Capacitance [µF]	Cable Length [km]	Configuration	
132	132	1.9	9.5	1 - Series	
150	150	1.9	9.5	1 - Series	
220	180	3.4	17		1 - Series
275	210	2.6	13		1 - Series
330	250	1.8	9		1 - Series
380	260	1.6	8		1 - Series
500	320	0.9	4.5	2 - Series	
500	320	1.9	9.5		2 - Series

Note:
- Cable lengths are calculated with assumed capacitance value of 0.2 µF/km
- Based on these reactors, multiple other configurations are possible to increase load range. Please check with us.



RSKF 165 - 60

- 165: rated voltage
- 60: rated current

BENEFITS

- Easy & fast test set up, testing possible without offloading the trailer for 1 series or 2 parallel configuration
- RSKF 165 needs no crane to set up series connection of 2 tanks
- Modular operation: multiple series or parallel connection for higher voltage or current requirement
- Easy integration with existing fixed-gap reactors (even non-HAEFELY reactors)
- Enable partial discharge measurement: system noise level ≤ 10 pC

HAEFELY

Current and voltage – our passion



January 2014